

Towne Centre View Project
Environmental Impact Report
SCH No. 2021040044; Project No. 624751

Exhibits to the Response to
Comments on the Draft EIR

March 2023



Towne Centre View

HEALTH RISK ASSESSMENT

CITY OF SAN DIEGO

PREPARED BY:

Haseeb Qureshi
hqureshi@urbanxroads.com

Michael Tirohn
mtirohn@urbanxroads.com

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LIST OF ABBREVIATED TERMS

(1)	Reference
µg	Microgram
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APS	Auxiliary Power System
AQMD	Air Quality Management District
ARB	Air Resources Board
BHP	Brake Horsepower
CEQA	California Environmental Quality Act
CPF	Cancer Potency Factor
DPM	Diesel Particulate Matter
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
HHD	Heavy Heavy-Duty
HI	Hazard Index
HRA	Health Risk Assessment
LHD	Light Heavy-Duty
MEIR	Maximally Exposed Individual Receptor
MEIW	Maximally Exposed Individual Worker
MHD	Medium Heavy-Duty
NAD	North American Datum
OEHHA	Office of Environmental Health Hazard Assessment
PM ₁₀	Particulate Matter 10 microns in diameter or less
Project	Towne Centre View
REL	Reference Exposure Level
RM	Recommended Measures
SDAPCD	San Diego Air Pollution Control District
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TA	Traffic Analysis
URF	Unit Risk Factor
UTM	Universal Transverse Mercator
VMT	Vehicle Miles Traveled

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EXECUTIVE SUMMARY

This report evaluates the potential health risk impacts to sensitive receptors and nearby workers associated with the development of the Project, more specifically, health risk impacts as a result of exposure to Toxic Air Contaminants (TACs) including diesel particulate matter (DPM) as a result of construction activity, heavy-duty diesel trucks accessing the site, and emergency diesel generators. This section summarizes the significance criteria and Project health risks.

The results of the health risk assessment from Project-generated DPM emissions are provided in Table ES-1, ES-2, and ES-3 below for the Project.

CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction-source DPM emissions is Location R1 which is located approximately 1,380 feet southeast of the Project site at an existing residence located at 9695 Caminito Del Feliz. R1 is placed in the private outdoor living areas (backyard) facing the Project site. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project construction-source DPM emissions is estimated at 1.64 in one million, which is less than the San Diego Air Pollution Control District (SDAPCD) significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. Cancer and non-cancer risk at Location R2, located approximately 1,218 feet southwest of the Project site at 9833 Genesee Avenue, is estimated at 0.77 and <0.01, respectively. Location R1 is the nearest receptor to the Project site and would experience the highest concentrations of DPM during Project construction. Because all other modeled receptors are located at a greater distance than the MEIR analyzed herein, and DPM dissipates with distance from the source, all other receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction activity. All other receptors during construction activity would experience less risk than what is identified for this location. The modeled receptors are illustrated on Exhibit 2-C.

OPERATIONAL IMPACTS

Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R1 which is located approximately 1,380 feet southeast of the Project site at an existing residence located at 9695 Caminito Del Feliz. R1 is placed in the private outdoor living areas (backyard) facing the Project site. At the MEIR, the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 1.33 in one million, which is less than the SDAPCD significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Location R1 is the nearest receptor to the Project site and would experience the highest concentrations of DPM from operation of the proposed Project. Because all other modeled receptors are located at a greater distance than the MEIR analyzed herein, and DPM

dissipates with distance from the source, all other receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The modeled receptors are illustrated on Exhibit 2-C.

Worker Exposure Scenario¹:

The worker receptor land use with the greatest potential exposure to Project operational -source DPM emissions is Location R3, which represents the potential worker receptor located approximately 246 feet south of the Project site. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact is 0.51 in one million which is less than the SDAPCD threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be <0.01, which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyzed herein, and DPM dissipates with distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The modeled receptors are illustrated on Exhibit 2-C.

School Child Exposure Scenario:

The nearest school is La Jolla Country Day School, located approximately 2,100 feet southwest of the Project site. At the maximally exposed individual school child (MEISC), the maximum incremental cancer risk impact attributable to the Project is calculated to be 0.10 in one million, which is less than the significance threshold of 10 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be <0.01, which would not exceed the applicable significance threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to nearby school children.

CONSTRUCTION AND OPERATIONAL IMPACTS

The land use with the greatest potential exposure to Project construction-source and operational-source DPM emissions is Location R1. At the MEIR, the maximum incremental cancer risk attributable to Project construction-source and operational-source DPM emissions is estimated at 1.78 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. Location R1 is the nearest receptor to the Project site and would experience the highest concentrations of DPM from overall construction and operation of the proposed Project. Because all other modeled receptors are located at a greater distance than the MEIR analyzed herein, and DPM dissipates with distance from the source, all other receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent

1 SDAPCD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

land uses as a result of Project construction and operational activity. All other receptors during construction and operational activity would experience less risk than what is identified for this location. The modeled receptors are illustrated on Exhibit 2-C.

TABLE ES-1: SUMMARY OF CONSTRUCTION CANCER AND NON-CANCER RISKS

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
5.74 Year Exposure	Maximum Exposed Sensitive Receptor	1.64	10	NO
Time Period	Location	Maximum Hazard Index	Significance Threshold	Exceeds Significance Threshold
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO

TABLE ES-2: SUMMARY OF OPERATIONAL CANCER AND NON-CANCER RISKS

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	1.33	10	NO
25 Year Exposure	Maximum Exposed Worker Receptor	0.51	10	NO
9 Year Exposure	Maximum Exposed Individual School Child	0.10	10	NO
Time Period	Location	Maximum Hazard Index	Significance Threshold	Exceeds Significance Threshold
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO
Annual Average	Maximum Exposed Worker Receptor	≤0.01	1.0	NO
Annual Average	Maximum Exposed Individual School Child	≤0.01	1.0	NO

TABLE ES-3: SUMMARY OF CONSTRUCTION AND OPERATIONAL CANCER AND NON-CANCER RISKS

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	1.78	10	NO
Time Period	Location	Maximum Hazard Index	Significance Threshold	Exceeds Significance Threshold
Annual Average	Maximum Exposed Sensitive Receptor	≤0.01	1.0	NO

1 INTRODUCTION

This HRA has been prepared in accordance with the San Diego Air Pollution Control District's (SDAPCD's) Supplemental Guidelines for Submission of Air Toxics "Hot Spots" Program Health Risk Assessments (1) and is comprised of all relevant and appropriate procedures presented by the United States Environmental Protection Agency (U.S. EPA), California EPA and SDAPCD. Cancer risk is expressed in terms of expected incremental incidence per million population. The SDAPCD has established an incidence rate of ten (10) persons per million as the maximum acceptable incremental cancer risk due to TAC exposure from a project such as the proposed Project. This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulatively considerable impact.

The SDAPCD has also established non-carcinogenic risk parameters for use in HRAs. Non-carcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A hazard index less than one (1.0) means that adverse health effects are not expected. In this HRA, non-carcinogenic exposures of less than 1.0 are considered less-than-significant. Both the cancer risk and non-carcinogenic risk thresholds are applied to the nearest sensitive receptors below.

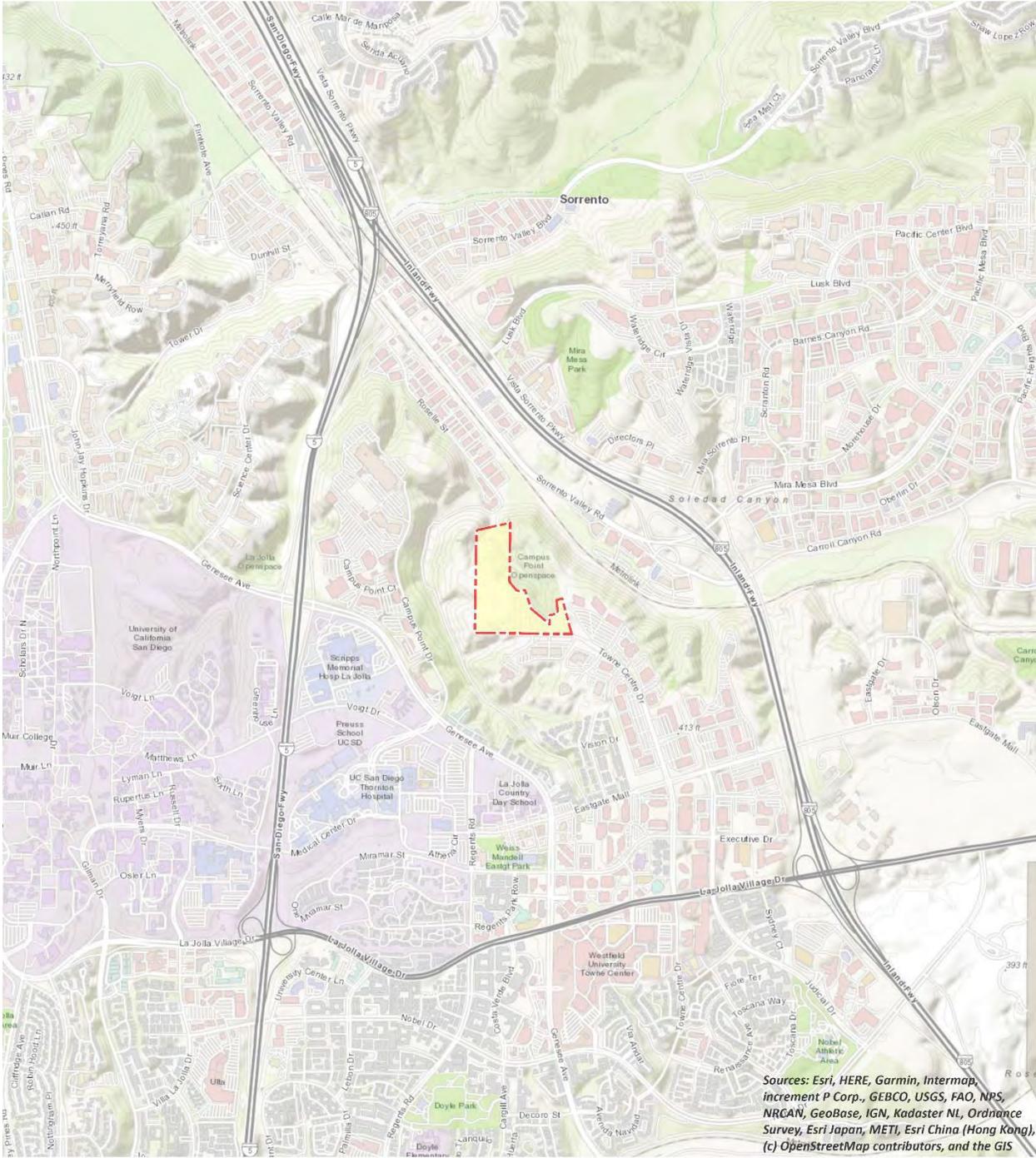
1.1 SITE LOCATION

The proposed Towne Centre View site is located at the end Towne Centre Drive, as shown on Exhibit 1-A. The Project site is located north of the Eastgate Technology Park area and is designated Scientific Research land use in the University Community Plan (Subarea 11). Interstate (I) 805 is located approximately 1,500 feet east and I-5 is located approximately 2,900 feet west of the Project site. The eastern portion of the Project site is currently developed with 192,365 square feet (sf) of research and development and a 7,370-sf covered courtyard. Based on a review of historical aerial photographs, the existing land uses have been on-site since 2002 with one structure constructed in 2007. The western portion of the Project site is entitled for 190,000 sf of research and development (R&D) uses (pursuant to Coastal Development Permit 117798 and Site Development Permit 2758) and is currently being used as a staging area for the Mid-Coast Trolley construction. The nearest airport is the Marine Air Corps Station (MCAS) Miramar, which is located roughly 3 miles southeast of the Project site.

1.2 PROJECT DESCRIPTION

Exhibit 1-B illustrates the preliminary site plan. The Project involves redevelopment of the Project site with a five (5)-buildings campus. The proposed land uses include research, laboratory, technology, and office land uses. Buildings A through E would have a gross floor area (GFA) of 999,386 sf, with additional area consisting of balcony and roof deck space. A podium parking structure would be provided generally in the southern portion of the Project site (primarily subterranean under the proposed Buildings A through D), and a parking garage would be provided in the eastern portion of the Project site. At the time this analysis was prepared, the future tenants of the proposed Project are unknown.

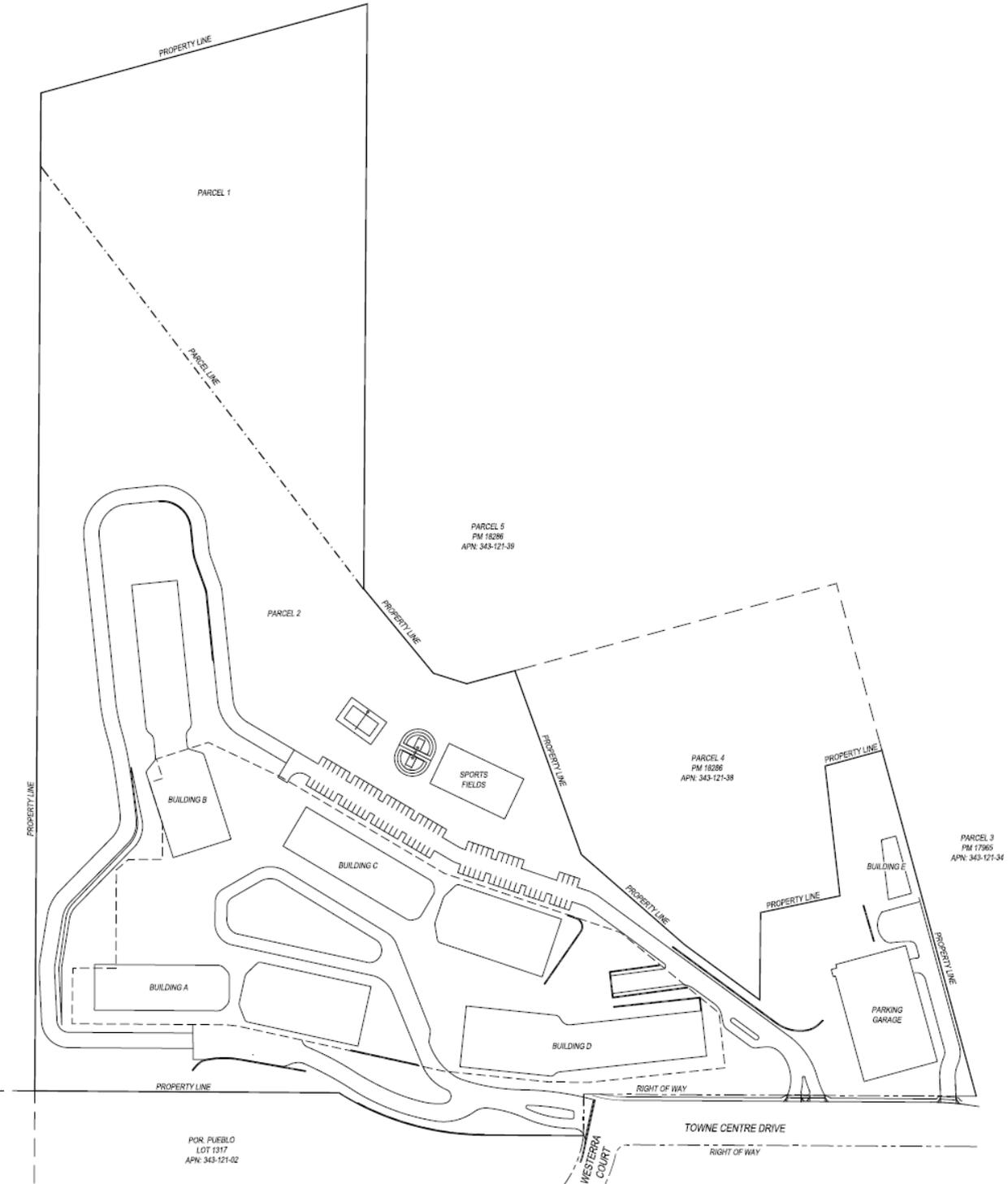
EXHIBIT 1-A: LOCATION MAP



LEGEND:

 Site Boundary

EXHIBIT 1-B: SITE PLAN



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2 BACKGROUND

2.1 BACKGROUND ON RECOMMENDED METHODOLOGY

This HRA is based on applicable guidelines to produce conservative estimates of human health risk posed by exposure to DPM. The conservative nature of this analysis is due primarily to the following factors:

- The ARB-adopted diesel exhaust Unit Risk Factor (URF) of 300 in one million per $\mu\text{g}/\text{m}^3$ is based upon the upper 95 percentile of estimated risk for each of the epidemiological studies utilized to develop the URF. Using the 95th percentile URF represents a very conservative (health-protective) risk posed by DPM because it represents breathing rates that are high for the human body (95% higher than the average population).
- The emissions derived assume that every truck accessing the Project site will idle for 15 minutes under the unmitigated scenario, and this is an overestimation of actual idling times and thus conservative. The California Air Resources Board (CARB's) anti-idling requirements impose a 5-minute maximum idling time and therefore the analysis conservatively overestimates DPM emissions from idling by a factor of 3.
- A 2028 EMFAC 2021 run was conducted and a static 2028 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2028 emission factors would overstate potential impacts since this approach assumes that emission factors remain "static" and do not change over time due to fleet turnover or cleaner technology with lower emissions that would be incorporated into vehicles after 2028.
- The analysis conservatively utilizes a reduced off-site average speed of 25 miles per hour (below the posted speed limit) for travel on study area roadways, use of a lower average speed for off-site travel results in a higher emission factor.
- As a conservative measure, receptors were placed at either the outdoor living area or the building façade, whichever is closer to the Project site—i.e., receptors were assumed to be outside (meaning greater exposure to DPM) for the entire modeled period of exposure.

2.2 CONSTRUCTION HEALTH RISK ASSESSMENT

2.2.1 EMISSIONS CALCULATIONS

The emissions calculations for the construction HRA component are based on an assumed mix of construction equipment and hauling activity as presented in the *Towne Centre View Air Quality Impact Analysis* ("technical study") prepared by Urban Crossroads, Inc. (2)

Construction related DPM emissions are expected to occur primarily as a function of the operation of heavy-duty construction equipment.

As discussed in the technical study, the Project would result in approximately 1,499 total working-days of construction activity. The construction duration by phase is shown on Table 2-1. A detailed summary of construction equipment assumptions by phase is provided at Table 2-2. The CalEEMod emissions outputs are presented in Appendix 2.1. The modeled emission sources for construction activity are illustrated on Exhibit 2-A.

TABLE 2-1: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Phase 1 Utilities	4/4/2022	12/19/2022	181
Phase 1 Grading	5/14/2022	10/5/2022	100
Phase 1 Building Construction	10/6/2022	12/5/2024	550
Phase 1 Paving	4/28/2023	1/16/2024	181
Demolition of Existing Building	8/31/2023	12/19/2023	76
Phase 1 Site Preparation	12/18/2023	11/4/2024	226
Phase 1 Architectural Coating	5/15/2024	11/4/2024	121
Phase 2 Grading	7/8/2024	8/16/2024	30
Phase 2 Building Construction	8/17/2024	1/12/2026	354
Phase 3 Grading	2/11/2025	5/6/2025	61
Phase 3 Building Construction	5/7/2025	7/2/2027	548
Phase 2 Architectural Coating	10/24/2025	1/12/2026	53
Phase 3 Paving	2/23/2026	12/14/2026	212
Phase 4 Grading	4/9/2026	4/22/2026	10
Phase 4 Building Construction	4/23/2026	12/30/2027	428
Phase 3 Site Preparation	9/17/2026	7/2/2027	202
Phase 4 Demolition	2/16/2027	3/22/2027	25
Building E Grading	2/16/2027	3/22/2027	25
Phase 3 Architectural Coating	3/15/2027	7/2/2027	79
Phase 4 Architectural Coating	6/26/2027	12/30/2027	129

TABLE 2-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Phase Name	Equipment	Amount	Hours Per Day
Phase 1 Utilities	Aerial Lifts	2	8
	Excavators	1	8
	Generator Sets	1	8
Phase 1 Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
Phase 1 Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8

Phase Name	Equipment	Amount	Hours Per Day
Phase 1 Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Demolition of Existing Building	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	3	8
Phase 1 Site Preparation	Rubber Tired Dozers	4	8
	Tractors/Loaders/Backhoes	3	8
Phase 1 Architectural Coating	Air Compressors	1	8
Phase 2 Grading	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Tractors/Loaders/Backhoes	2	8
Phase 2 Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Phase 3 Grading	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Tractors/Loaders/Backhoes	2	8
Phase 3 Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Phase 2 Architectural Coating	Air Compressors	1	8
Phase 3 Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Phase 4 Grading	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Tractors/Loaders/Backhoes	2	8
Phase 4 Building Construction	Cranes	1	8

Phase Name	Equipment	Amount	Hours Per Day
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Phase 4 Grading	Rubber Tired Dozers	3	8
	Tractors/Loaders/Backhoes	4	8
Phase 4 Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
Building E Grading	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Tractors/Loaders/Backhoes	2	8
Phase 3 Architectural Coating	Air Compressors	1	8
Phase 4 Architectural Coating	Air Compressors	1	8

EXHIBIT 2-A: MODELED CONSTRUCTION EMISSION SOURCES



 **LEGEND:**
 Construction Activity

2.3 OPERATIONAL HEALTH RISK ASSESSMENT

2.3.1 ON-SITE AND OFF-SITE TRUCK ACTIVITY

Vehicle DPM emissions were calculated using emission factors for particulate matter less than 10 μ m in diameter (PM₁₀) generated with the 2021 version of the Emission FACTor model (EMFAC) developed by the CARB. EMFAC 2021 is a mathematical model that CARB developed to calculate emission rates from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (3). The most recent version of this model, EMFAC 2021, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

Several distinct emission processes are included in EMFAC 2021. Emission factors calculated using EMFAC 2021 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

For this Project, annual average PM₁₀ emission factors were generated by running EMFAC 2021 in EMFAC Mode for vehicles in the San Diego County jurisdiction. The EMFAC Mode generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of temperature, relative humidity, and vehicle speed. The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

- Idling – on-site loading/unloading and truck gate
- 5 miles per hour – on-site vehicle movement including driving and maneuvering
- 25 miles per hour – off-site vehicle movement including driving and maneuvering.

It is expected that minimal idling would occur at nearby intersections during truck travel on study area roadways (e.g., at an intersection during a red light, or yielding to make a turn). Notwithstanding, the analysis conservatively utilizes a reduced off-site average speed of 25 miles per hour (below the posted speed limit) for travel on study area roadways, use of a lower average speed for off-site travel results in a higher emission factor and therefore any negligible idling that would occur during truck travel along the study area is accounted for.

Calculated emission factors are shown at Table 2-3. As a conservative measure, a 2028 EMFAC 2021 run was conducted and a static 2028 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2028 emission factors would overstate potential impacts since this approach assumes that emission factors remain “static” and do not change over time due to fleet turnover or cleaner technology with lower emissions that would be incorporated into vehicles after 2028. Additionally, based on EMFAC 2021, Light-Heavy-Duty Trucks are comprised of 55.5% diesel, Medium-Heavy-Duty Trucks are comprised of 84.6% diesel, and Heavy-Heavy-Duty Trucks are comprised of 92.5% diesel. Trucks fueled by diesel are

accounted for by these percentages accordingly in the emissions factor generation. Appendix 2.2 includes additional details on the emissions estimates from EMFAC.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM₁₀ emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (4):

$$\text{Emissions}_{\text{SpeedA}} \text{ (g/s)} = \text{EF}_{\text{RunExhaust}} \text{ (g/VMT)} * \text{Distance (VMT/trip)} * \text{Number of Trips (trips/day)} / \text{seconds per day}$$

Where:

Emissions_{SpeedA} (g/s): Vehicle emissions at a given speed A;

EF_{RunExhaust} (g/VMT): EMFAC running exhaust PM₁₀ emission factor at speed A;

Distance (VMT/trip): Total distance traveled per trip.

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM₁₀ emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM₁₀ emission factor (g/idle-hr) from EMFAC and the total truck trip over the total assumed idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (4):

$$\text{Emissions}_{\text{idle}} \text{ (g/s)} = \text{EF}_{\text{idle}} \text{ (g/hr)} * \text{Number of Trips (trips/day)} * \text{Idling Time (min/trip)} * \frac{60 \text{ minutes}}{\text{per hour}} / \text{seconds per day}$$

Where:

Emissions_{idle} (g/s): Vehicle emissions during idling;

EF_{idle}(g/s): EMFAC idle exhaust PM₁₀ emission factor.

TABLE 2-3: 2028 WEIGHTED AVERAGE DPM EMISSIONS FACTORS

Speed	Weighted Average
0 (idling)	0.25611 (g/idle-hr)
5	0.02939 (g/s)
25	0.01309 (g/s)

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report but are included in Appendix 2.3. The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway, as illustrated on Table 2-4. The modeled emission sources are illustrated on

Exhibit 2-B. The modeling domain is limited to the Project's primary truck route and includes off-site sources in the study area for more than $\frac{3}{4}$ mile. This modeling domain is more inclusive and conservative than using only a $\frac{1}{4}$ mile modeling domain which is the distance supported by several reputable studies which conclude that the greatest potential risks occur within a $\frac{1}{4}$ mile of the primary source of emissions (5) (in the case of the Project, the primary source of emissions is the on-site idling and on-site travel).

The number of daily heavy-duty truck trips was estimated based on the default fleet mix utilized in the Project air quality analysis. As such, it was estimated that the Project would be expected to generate a total of approximately 7,995 actual vehicular trip-ends per day (3,998 vehicles inbound + 3,998 vehicles outbound) which includes 359 two-way truck trips (180 trucks inbound per day + 180 trucks outbound) per day.

2.3.2 EMERGENCY GENERATORS

The proposed generators would be diesel fueled and potentially would result in exposure of sensitive receptors to DPM. Based on the CalEEMod output presented in the Project air quality impact analysis, it is anticipated that the proposed Project would include a total of six emergency generators, with four rated at 2,346 brake-horsepower (bhp) and two rated at 2,923 bhp. The analysis assumed that each generator could potentially operate for up to 30 minutes per day, and a total of 100 hours per year. Consistent with SDAPCD guidance, each emergency generator was modeled as a point source. Because detailed engine specifications are not known at this time, release parameters (including exhaust height, diameter, temperature, and flow rate) were obtained from the California Air Pollution Control Officers Association Facility Prioritization Guidelines (6).

EXHIBIT 2-B: MODELED EMISSION SOURCES



 **LEGEND:**
 Truck Movements

TABLE 2-4: DPM EMISSIONS FROM PROJECT TRUCKS (2028 ANALYSIS YEAR)

Truck Emission Rates						
Source	Trucks Per Day	VMT ^a (miles/day)	Truck Emission Rate ^b (grams/mile)	Truck Emission Rate ^b (grams/idle-hour)	Daily Truck Emissions ^c (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling	36			0.2561	2.30	2.661E-05
On-Site Idling	36			0.2561	2.30	2.661E-05
On-Site Idling	36			0.2561	2.30	2.661E-05
On-Site Idling	36			0.2561	2.30	2.661E-05
On-Site Idling	36			0.2561	2.30	2.661E-05
On-Site Travel	90	17.15	0.0294		0.50	5.832E-06
On-Site Travel	90	6.38	0.0294		0.19	2.169E-06
On-Site Travel	90	5.68	0.0294		0.17	1.931E-06
On-Site Travel	90	19.11	0.0294		0.56	6.500E-06
Off-Site Travel - 100% Inbound/Outbound	359	604.39	0.0131		7.91	9.159E-05

^a Vehicle miles traveled are for modeled truck route only.

^b Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

^c This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

2.4 EXPOSURE QUANTIFICATION

The analysis herein has been conducted in accordance with the guidelines in the Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (7). The Environmental Protection Agency's (U.S. EPA's) AERMOD model has been utilized. For purposes of this analysis, the Lakes AERMOD View (Version 11.2.0) was used to calculate annual average particulate concentrations associated with site operations. Lakes AERMOD View was utilized to incorporate the U.S. EPA's latest AERMOD Version 22112 (8).

The model offers additional flexibility by allowing the user to assign an initial release height and vertical dispersion parameters for mobile sources representative of a roadway. For this HRA, the roadways were modeled as adjacent volume sources. Roadways were modeled using the U.S. EPA's haul route methodology for modeling of on-site and off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the US EPA methodology, the Project's modeled sources would result in a release height of 3.49 meters and an initial lateral dimension of 4.0 meters, and an initial vertical dimension of 3.25 meters.

Model parameters are presented in Table 2-5 (9). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the CARB's Marine Corps Air Station Miramar monitoring station was used to represent local weather conditions and prevailing winds (10).

TABLE 2-5: AERMOD MODEL PARAMETERS

Dispersion Coefficient (Urban/Rural)	Rural
Terrain (Flat/Elevated)	Elevated (Regulatory Default)
Averaging Time	1 year (5-year Meteorological Data Set)
Receptor Height	0 meters (Regulatory Default)

Universal Transverse Mercator (UTM) coordinates for World Geodetic System (WGS) 84 were used to locate the Project site boundaries, each volume source location, and receptor locations in the Project vicinity. The AERMOD dispersion model summary output files for the Project are presented in Appendix 2.3. Modeled sensitive receptors were placed at residential and non-residential locations.

Receptors may be placed at applicable structure locations for residential and worker property and not necessarily the boundaries of the properties containing these uses because the human receptors (residents and workers) spend a majority of their time at the residence or in the workplace's building, and not on the property line. It should be noted that the primary purpose of receptor placement is focused on long-term exposure. For example, the HRA evaluates the potential health risks to residents, workers, and school children over a period of 30, 25, or 9 years of exposure, respectively. Notwithstanding, as a conservative measure, receptors were placed at either the outdoor living area or the building façade, whichever is closer to the Project site.

For purposes of this HRA, receptors include both residential and non-residential (worker and school children) land uses in the vicinity of the Project. These receptors are included in the HRA

since residents, workers, and school children may be exposed at these locations over a long-term duration of 30, 25, and 9 years, respectively. This methodology is consistent with SDAPCD and OEHHA recommended guidance.

Any impacts to residents or workers located further away from the Project site than the modeled residential and workers would have a lesser impact than what has already been disclosed in the HRA at the MEIR and MEIW because concentrations dissipate with distance.

All receptors were set to existing elevation height so that only ground-level concentrations are analyzed. United States Geological Survey (USGS) Digital Elevation Model (DEM) terrain data based on a 7.5-minute topographic quadrangle map series using AERMAP was utilized in the HRA modeling to set elevations (11).

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines. Tables 2-6 through 2-9 summarize the Exposure Parameters for Residents, Workers, and School Children based on 2015 OEHHA Guidelines. Appendix 2.4 includes the detailed risk calculation.

TABLE 2-6: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (CONSTRUCTION ACTIVITY)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
0 to 2	1,090	10	2	1.00	260	8
2 to 16	572	3	3.74	1.00	260	8

TABLE 2-7: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
-0.25 to 0	361	10	0.25	0.85	350	24
0 to 2	1,090	10	2	0.85	350	24
2 to 16	572	3	14	0.72	350	24
16 to 30	261	1	14	0.73	350	24

TABLE 2-8: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year)	Exposure Time (hours/day)
16 to 41	230	1	25	250	12

TABLE 2-9: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (9 YEAR SCHOOL CHILD)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year) ^a	Exposure Time (hours/day)
4 to 13	631	3	9	180	12
^a To represent the unique characteristics of the school-based population, the assessment employed the U.S. Environmental Protection Agency’s guidance to develop viable dose estimates based on reasonable maximum exposures (RME). RME’s are defined as the “highest exposure that is reasonably expected to occur” for a given receptor population. As a result, lifetime risk values for the student population were adjusted to account for an exposure duration of 180 days per year for nine (9) years.					

2.5 CARCINOGENIC CHEMICAL RISK

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 10 in one million implies a likelihood that up to 10 people, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time.

Guidance from CARB and the California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA) recommends a refinement to the standard point estimate approach when alternate human body weights and breathing rates are utilized to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)⁻¹ to derive the cancer risk estimate. Therefore, to assess exposures, the following dose algorithm was utilized.

$$DOSE_{air} = (C_{air} \times [BR/BW] \times A \times EF) \times (1 \times 10^{-6})$$

Where:

- DOSE_{air} = chronic daily intake (mg/kg/day)
- C_{air} = concentration of contaminant in air (ug/m³)
- [BR/BW] = daily breathing rate normalized to body weight (L/kg BW-day)
- A = inhalation absorption factor
- EF = exposure frequency (days/365 days)
- BW = body weight (kg)

1×10^{-6} = conversion factors (ug to mg, L to m³)

$$\text{RISK}_{\text{air}} = \text{DOSE}_{\text{air}} \times \text{CPF} \times \text{ED}/\text{AT}$$

Where:

DOSE_{air} = chronic daily intake (mg/kg/day)

CPF = cancer potency factor

ED = number of years within particular age group

AT = averaging time

2.6 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncarcinogenic effects of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound's annual concentration with its toxicity factor or Reference Exposure Level (REL). The REL for diesel particulates was obtained from OEHHA for this analysis. The chronic reference exposure level (REL) for DPM was established by OEHHA as 5 $\mu\text{g}/\text{m}^3$ (12).

The non-cancer hazard index was calculated as follows:

The relationship for the non-cancer health effects of DPM is given by the following equation:

$$\text{HI}_{\text{DPM}} = \text{C}_{\text{DPM}}/\text{REL}_{\text{DPM}}$$

Where:

HI_{DPM} = Hazard Index; an expression of the potential for non-cancer health effects.

C_{DPM} = Annual average DPM concentration ($\mu\text{g}/\text{m}^3$).

REL_{DPM} = Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

For purposes of this analysis the hazard index for the respiratory endpoint totaled less than one for all receptors in the project vicinity, and thus is less than significant.

2.7 POTENTIAL PROJECT DPM-SOURCE CANCER AND NON-CANCER RISKS

CONSTRUCTION IMPACTS

The land use with the greatest potential exposure to Project construction-source DPM emissions is Location R1 which is located approximately 1,380 feet southeast of the Project site at an existing residence located at 9695 Caminito Del Feliz. R1 is placed in the private outdoor living areas (backyard) facing the Project site. At the MEIR, the maximum incremental cancer risk attributable to Project construction-source DPM emissions is estimated at 1.64 in one million,

which is less than the SDAPCD significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01 , which would not exceed the applicable threshold of 1.0. Cancer and non-cancer risk at Location R2, located approximately 1,218 feet southwest of the Project site at 9833 Genesee Avenue, is estimated at 0.77 and <0.01 , respectively. Location R1 is the nearest receptor to the Project site and would experience the highest concentrations of DPM during Project construction. Because all other modeled receptors are located at a greater distance than the MEIR analyzed herein, and DPM dissipates with distance from the source, all other receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction activity. All other receptors during construction activity would experience less risk than what is identified for this location. The modeled receptors are illustrated on Exhibit 2-C.

OPERATIONAL IMPACTS

Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project operational-source DPM emissions is Location R1 which is located approximately 1,380 feet southeast of the Project site at an existing residence located at 9695 Caminito Del Feliz. R1 is placed in the private outdoor living areas (backyard) facing the Project site. At the MEIR, the maximum incremental cancer risk attributable to Project operational-source DPM emissions is estimated at 1.33 in one million, which is less than the SDAPCD significance threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01 , which would not exceed the applicable significance threshold of 1.0. Location R1 is the nearest receptor to the Project site and would experience the highest concentrations of DPM from operation of the proposed Project. Because all other modeled receptors are located at a greater distance than the MEIR analyzed herein, and DPM dissipates with distance from the source, all other receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to nearby residences. The modeled receptors are illustrated on Exhibit 2-C.

Worker Exposure Scenario²:

The worker receptor land use with the greatest potential exposure to Project operational -source DPM emissions is Location R3, which represents the potential worker receptor located approximately 246 feet south of the Project site. At the MEIW, the maximum incremental cancer risk impact is 0.51 in one million which is less than the SDAPCD threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be <0.01 , which would not exceed the applicable significance threshold of 1.0. Because all other modeled worker receptors are located at a greater distance than the MEIW analyzed herein, and DPM dissipates with

2 SDAPCD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

distance from the source, all other worker receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. The modeled receptors are illustrated on Exhibit 2-C.

School Child Exposure Scenario:

The nearest school is La Jolla Country Day School, located approximately 2,100 feet southwest of the Project site. At the MEISC, the maximum incremental cancer risk impact attributable to the Project is calculated to be 0.10 in one million, which is less than the significance threshold of 10 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be <0.01, which would not exceed the applicable significance threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to nearby school children.

CONSTRUCTION AND OPERATIONAL IMPACTS

The land use with the greatest potential exposure to Project construction-source and operational-source DPM emissions is Location R1. At the MEIR, the maximum incremental cancer risk attributable to Project construction-source and operational-source DPM emissions is estimated at 1.78 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable threshold of 1.0. Location R1 is the nearest receptor to the Project site and would experience the highest concentrations of DPM from overall construction and operation of the proposed Project. Because all other modeled receptors are located at a greater distance than the MEIR analyzed herein, and DPM dissipates with distance from the source, all other receptors in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIR identified herein. As such, the Project will not cause a significant human health or cancer risk to adjacent land uses as a result of Project construction and operational activity. All other receptors during construction and operational activity would experience less risk than what is identified for this location. The modeled receptors are illustrated on Exhibit 2-C.

EXHIBIT 2-C: RECEPTOR LOCATIONS



LEGEND:
● Receptor Locations
● Distance from receptor to Project site boundary (in feet)

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3 REFERENCES

1. **San Diego Air Pollution Control District.** *Supplemental Guidelines for Submission of Air Toxics "Hot Spots" Program Health Risk Assessments.* 2019.
2. **Urban Crossroads, Inc.** *Towne Centre View Air Quality Impact Analysis.* 2022.
3. **California Air Resources Board.** EMFAC 2021. [Online] <https://arb.ca.gov/emfac/>.
4. **California Department of Transportation.** EMFAC Software. [Online] <http://www.dot.ca.gov/hq/env/air/pages/emfac.htm>.
5. **Air Resources Board.** *Air Quality and Land Use Handbook: A Community Health Perspective.* 2005.
6. **California Air Pollution Control Officers Association.** *Facility Prioritization Guidelines.* 2016.
7. **South Coast Air Quality Management District.** Mobile Source Toxics Analysis. [Online] 2003. http://www.aqmd.gov/ceqa/handbook/mobile_toxic/mobile_toxic.html.
8. **Environmental Protection Agency.** User's Guide for the AMS/EPA Regulatory Model (AERMOD). [Online] June 2022. https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_userguide.pdf.
9. —. User's Guide for the AMS/EPA Regulatory Model (AERMOD). [Online] April 2018. https://www3.epa.gov/ttn/scram/models/aermod/aermod_userguide.pdf.
10. **California Air Resources Board.** HARP AERMOD Meteorological Files. [Online] [Cited: December 3, 2021.] <https://ww2.arb.ca.gov/resources/documents/harp-aermod-meteorological-files>.
11. **Environmental Protection Agency.** User's Guide for the AERMOD Terrain Preprocessor (AERMAP). [Online] 2018. https://gaftp.epa.gov/Air/aqmg/SCRAM/models/related/aermap/aermap_userguide_v18081.pdf.
12. **Office of Environmental Health Hazard Assessment.** Chemical Toxicity Database. [Online] <https://oehha.ca.gov/chemicals>.
13. **Urban Systems Associates, Inc.** *Towne Centre View – Local Mobility Analysis / Vehicle Miles Traveled – Scoping.* 2020.

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4 CERTIFICATIONS

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed Towne Centre View Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me at (949) 660-1994.

Haseeb Qureshi
Principal
URBAN CROSSROADS, INC.
(949) 660-1994
hqureshi@urbanxroads.com

EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June 2013
Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007
AB2588 Regulatory Standards – Trinity Consultants • November 2006
Air Dispersion Modeling – Lakes Environmental • June 2006

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APPENDIX 2.1:
CALEEMOD OUTPUTS

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Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Towne Centre View
San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	999.39	1000sqft	24.49	999,390.00	0
Enclosed Parking Structure	2,611.00	Space	0.00	1,044,400.00	0
Parking Lot	112.00	Space	1.01	44,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2028
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	539.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on Site Plan, aall parking gragaes will be below ground

Construction Phase - based on project engineer input

Off-road Equipment - 8-hours days, project engineer inputs

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - 8-hours days, project engineer inputs

Trips and VMT - Building Constructon/Architectural Coatings trips based on square footage being built in each pahse per CalEEMod User Manual Appendix A.

Grading - based on site acerage

Vehicle Trips - per TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Water And Wastewater - 20% reduction over year 2000 survey per CalGreen

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	53.00
tblConstructionPhase	NumDays	35.00	79.00
tblConstructionPhase	NumDays	35.00	129.00
tblConstructionPhase	NumDays	35.00	121.00
tblConstructionPhase	NumDays	440.00	548.00
tblConstructionPhase	NumDays	440.00	428.00

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	440.00	550.00
tblConstructionPhase	NumDays	440.00	354.00
tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	30.00	76.00
tblConstructionPhase	NumDays	45.00	61.00
tblConstructionPhase	NumDays	45.00	10.00
tblConstructionPhase	NumDays	45.00	25.00
tblConstructionPhase	NumDays	45.00	100.00
tblConstructionPhase	NumDays	45.00	30.00
tblConstructionPhase	NumDays	35.00	212.00
tblConstructionPhase	NumDays	35.00	181.00
tblConstructionPhase	NumDays	20.00	202.00
tblConstructionPhase	NumDays	20.00	226.00
tblGrading	AcresOfGrading	183.00	25.50
tblGrading	AcresOfGrading	30.00	25.50
tblGrading	AcresOfGrading	75.00	25.50
tblGrading	AcresOfGrading	400.00	25.50
tblGrading	AcresOfGrading	90.00	25.50
tblGrading	AcresOfGrading	303.00	0.00
tblGrading	AcresOfGrading	452.00	0.00
tblGrading	MaterialExported	0.00	118,876.00
tblGrading	MaterialExported	0.00	16,159.00
tblGrading	MaterialExported	0.00	146,600.00
tblGrading	MaterialExported	0.00	15,406.00
tblGrading	MaterialImported	0.00	1,727.00
tblGrading	MaterialImported	0.00	6,174.00
tblLandUse	LotAcreage	22.94	24.49
tblLandUse	LotAcreage	23.50	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	342.00	44.00
tblTripsAndVMT	VendorTripNumber	342.00	31.00
tblTripsAndVMT	VendorTripNumber	342.00	42.00
tblTripsAndVMT	VendorTripNumber	342.00	46.00
tblTripsAndVMT	WorkerTripNumber	777.00	114.00
tblTripsAndVMT	WorkerTripNumber	155.00	24.00
tblTripsAndVMT	WorkerTripNumber	777.00	79.00
tblTripsAndVMT	WorkerTripNumber	155.00	23.00
tblTripsAndVMT	WorkerTripNumber	155.00	16.00
tblTripsAndVMT	WorkerTripNumber	777.00	107.00
tblTripsAndVMT	WorkerTripNumber	18.00	15.00
tblTripsAndVMT	WorkerTripNumber	155.00	21.00
tblTripsAndVMT	WorkerTripNumber	777.00	118.00
tblVehicleTrips	WD_TR	11.26	8.00
tblWater	IndoorWaterUseRate	491,394,013.90	393,115,211.10

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3933	5.1988	3.4246	0.0126	0.5493	0.1646	0.7139	0.2323	0.1536	0.3859	0.0000	1,183.2675	1,183.2675	0.1792	0.1000	1,217.5570
2023	0.4933	4.5607	5.0007	0.0105	0.4392	0.2046	0.6438	0.1354	0.1907	0.3261	0.0000	933.2962	933.2962	0.1973	0.0250	945.6632
2024	1.9721	7.2772	6.3576	0.0148	3.0192	0.3082	3.3274	1.5828	0.2862	1.8690	0.0000	1,326.0830	1,326.0830	0.2834	0.0374	1,344.3069
2025	1.5486	5.2294	5.5158	0.0161	0.6089	0.1700	0.7790	0.2135	0.1593	0.3728	0.0000	1,490.4356	1,490.4356	0.2178	0.0998	1,525.6187
2026	0.7743	5.5613	6.8572	0.0145	1.0067	0.2228	1.2295	0.4702	0.2076	0.6778	0.0000	1,297.9360	1,297.9360	0.2657	0.0367	1,315.5274
2027	2.4919	5.3615	5.8457	0.0125	1.5265	0.2165	1.7429	0.7580	0.2020	0.9600	0.0000	1,113.9137	1,113.9137	0.2318	0.0230	1,126.5480
Maximum	2.4919	7.2772	6.8572	0.0161	3.0192	0.3082	3.3274	1.5828	0.2862	1.8690	0.0000	1,490.4356	1,490.4356	0.2834	0.1000	1,525.6187

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3933	5.1988	3.4246	0.0126	0.5493	0.1646	0.7139	0.2323	0.1536	0.3859	0.0000	1,183.2669	1,183.2669	0.1792	0.1000	1,217.5563
2023	0.4933	4.5607	5.0007	0.0105	0.4392	0.2046	0.6438	0.1354	0.1907	0.3261	0.0000	933.2954	933.2954	0.1973	0.0250	945.6624
2024	1.9721	7.2771	6.3576	0.0148	3.0192	0.3082	3.3274	1.5828	0.2862	1.8690	0.0000	1,326.0818	1,326.0818	0.2834	0.0374	1,344.3058
2025	1.5486	5.2294	5.5158	0.0161	0.6089	0.1700	0.7790	0.2135	0.1593	0.3728	0.0000	1,490.4347	1,490.4347	0.2178	0.0998	1,525.6179
2026	0.7743	5.5613	6.8572	0.0145	1.0067	0.2228	1.2295	0.4702	0.2076	0.6778	0.0000	1,297.9349	1,297.9349	0.2657	0.0367	1,315.5263
2027	2.4919	5.3615	5.8457	0.0125	1.5265	0.2165	1.7429	0.7580	0.2020	0.9600	0.0000	1,113.9127	1,113.9127	0.2318	0.0230	1,126.5470
Maximum	2.4919	7.2771	6.8572	0.0161	3.0192	0.3082	3.3274	1.5828	0.2862	1.8690	0.0000	1,490.4347	1,490.4347	0.2834	0.1000	1,525.6179

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-4-2022	7-3-2022	1.7192	1.7192
2	7-4-2022	10-3-2022	2.9355	2.9355
3	10-4-2022	1-3-2023	0.9291	0.9291
4	1-4-2023	4-3-2023	0.6285	0.6285
5	4-4-2023	7-3-2023	0.9022	0.9022

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6	7-4-2023	10-3-2023	1.4212	1.4212
7	10-4-2023	1-3-2024	2.1661	2.1661
8	1-4-2024	4-3-2024	1.8214	1.8214
9	4-4-2024	7-3-2024	2.1523	2.1523
10	7-4-2024	10-3-2024	3.4907	3.4907
11	10-4-2024	1-3-2025	1.6830	1.6830
12	1-4-2025	4-3-2025	1.7434	1.7434
13	4-4-2025	7-3-2025	1.6545	1.6545
14	7-4-2025	10-3-2025	1.1313	1.1313
15	10-4-2025	1-3-2026	2.2889	2.2889
16	1-4-2026	4-3-2026	0.8897	0.8897
17	4-4-2026	7-3-2026	1.5733	1.5733
18	7-4-2026	10-3-2026	1.5850	1.5850
19	10-4-2026	1-3-2027	2.2672	2.2672
20	1-4-2027	4-3-2027	2.8600	2.8600
21	4-4-2027	7-3-2027	2.9658	2.9658
22	7-4-2027	9-30-2027	0.9546	0.9546
		Highest	3.4907	3.4907

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Energy	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	3,963.5086	3,963.5086	0.2165	0.0361	3,979.6696
Mobile	2.3386	2.3480	21.7047	0.0456	5.7557	0.0318	5.7875	1.5359	0.0296	1.5656	0.0000	4,460.9174	4,460.9174	0.3111	0.1959	4,527.0776
Stationary	1.6137	6.3310	9.6718	0.0457		0.6868	0.6868		0.6868	0.6868	0.0000	7,784.1913	7,784.1913	0.2194	0.0000	7,789.6761
Waste						0.0000	0.0000		0.0000	0.0000	15.4172	0.0000	15.4172	0.9111	0.0000	38.1954
Water						0.0000	0.0000		0.0000	0.0000	124.7173	1,253.7404	1,378.4577	12.8863	0.3118	1,793.5167
Total	9.1869	9.2436	31.8847	0.0947	5.7557	0.7616	6.5173	1.5359	0.7594	2.2954	140.1345	17,462.4241	17,602.5586	14.5446	0.5437	18,128.2061

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Energy	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	3,963.5086	3,963.5086	0.2165	0.0361	3,979.6696
Mobile	2.3386	2.3480	21.7047	0.0456	5.7557	0.0318	5.7875	1.5359	0.0296	1.5656	0.0000	4,460.9174	4,460.9174	0.3111	0.1959	4,527.0776
Stationary	1.6137	6.3310	9.6718	0.0457		0.6868	0.6868		0.6868	0.6868	0.0000	7,784.1913	7,784.1913	0.2194	0.0000	7,789.6761
Waste						0.0000	0.0000		0.0000	0.0000	15.4172	0.0000	15.4172	0.9111	0.0000	38.1954
Water						0.0000	0.0000		0.0000	0.0000	124.7173	1,253.7404	1,378.4577	12.8863	0.3118	1,793.5167
Total	9.1869	9.2436	31.8847	0.0947	5.7557	0.7616	6.5173	1.5359	0.7594	2.2954	140.1345	17,462.4241	17,602.5586	14.5446	0.5437	18,128.2061

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 Utilities	Trenching	4/4/2022	12/19/2022	5	181	
2	Phase 1 Grading	Grading	5/14/2022	10/5/2022	5	100	

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3	Phase 1 Building Construction	Building Construction	10/6/2022	12/5/2024	5	550
4	Phase 1 Paving	Paving	4/28/2023	1/16/2024	5	181
5	Demo Existing	Demolition	8/31/2023	12/19/2023	5	76
6	Phase 1 Site Preparation	Site Preparation	12/18/2023	11/4/2024	5	226
7	Phase 1 Architectural Coating	Architectural Coating	5/15/2024	11/4/2024	5	121
8	Phase 2 Grading	Grading	7/8/2024	8/16/2024	5	30
9	Phase 2 Building Construction	Building Construction	8/17/2024	1/12/2026	5	354
10	Phase 3 Grading	Grading	2/11/2025	5/6/2025	5	61
11	Phase 3 Building Construction	Building Construction	5/7/2025	7/2/2027	5	548
12	Phase 2 Architectural Coating	Architectural Coating	10/24/2025	1/12/2026	5	53
13	Phase 3 Paving	Paving	2/23/2026	12/14/2026	5	212
14	Phase 4 Grading	Grading	4/9/2026	4/22/2026	5	10
15	Phase 4 Building Construction	Building Construction	4/23/2026	12/30/2027	5	428
16	Phase 3 Site Preparation	Site Preparation	9/17/2026	7/2/2027	5	202
17	Phase 4 Demo	Demolition	2/16/2027	3/22/2027	5	25
18	Building E Grading	Grading	2/16/2027	3/22/2027	5	25
19	Phase 3 Architectural Coating	Architectural Coating	3/15/2027	7/2/2027	5	79
20	Phase 4 Architectural Coating	Architectural Coating	6/26/2027	12/30/2027	5	129

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 25.5

Acres of Paving: 1.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 381,537; Non-Residential Outdoor: 63,590; Striped Parking Area: 65,352 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Utilities	Aerial Lifts	2	8.00	63	0.31
Phase 1 Utilities	Excavators	1	8.00	158	0.38

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Phase 1 Utilities	Generator Sets	1	8.00	84	0.74
Phase 1 Grading	Crawler Tractors	2	8.00	212	0.43
Phase 1 Grading	Excavators	2	8.00	158	0.38
Phase 1 Grading	Graders	1	8.00	187	0.41
Phase 1 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1 Grading	Scrapers	2	8.00	367	0.48
Phase 1 Building Construction	Cranes	1	8.00	231	0.29
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Building Construction	Welders	1	8.00	46	0.45
Phase 1 Paving	Pavers	2	8.00	130	0.42
Phase 1 Paving	Paving Equipment	2	8.00	132	0.36
Phase 1 Paving	Rollers	2	8.00	80	0.38
Demo Existing	Concrete/Industrial Saws	1	8.00	81	0.73
Demo Existing	Excavators	3	8.00	158	0.38
Demo Existing	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1 Site Preparation	Rubber Tired Dozers	4	8.00	247	0.40
Phase 1 Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 2 Grading	Excavators	2	8.00	158	0.38
Phase 2 Grading	Graders	1	8.00	187	0.41
Phase 2 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2 Grading	Scrapers	2	8.00	367	0.48
Phase 2 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2 Building Construction	Cranes	1	8.00	231	0.29
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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Phase 2 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Grading	Excavators	2	8.00	158	0.38
Phase 3 Grading	Graders	1	8.00	187	0.41
Phase 3 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 3 Grading	Scrapers	2	8.00	367	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Building Construction	Cranes	1	8.00	231	0.29
Phase 3 Building Construction	Forklifts	3	8.00	89	0.20
Phase 3 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 3 Building Construction	Welders	1	8.00	46	0.45
Phase 2 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 3 Paving	Pavers	2	8.00	130	0.42
Phase 3 Paving	Paving Equipment	2	8.00	132	0.36
Phase 3 Paving	Rollers	2	8.00	80	0.38
Phase 4 Grading	Excavators	2	8.00	158	0.38
Phase 4 Grading	Graders	1	8.00	187	0.41
Phase 4 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 4 Grading	Scrapers	2	8.00	367	0.48
Phase 4 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 4 Building Construction	Cranes	1	8.00	231	0.29
Phase 4 Building Construction	Forklifts	3	8.00	89	0.20
Phase 4 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 4 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 4 Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 4 Demo	Excavators	3	8.00	158	0.38

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Phase 4 Demo	Rubber Tired Dozers	2	8.00	247	0.40
Building E Grading	Excavators	2	8.00	158	0.38
Building E Grading	Graders	1	8.00	187	0.41
Building E Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building E Grading	Scrapers	2	8.00	367	0.48
Building E Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 4 Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Utilities	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Grading	8	20.00	0.00	18,541.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Building Construction	9	107.00	42.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demo Existing	7	15.00	0.00	1,261.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Grading	8	20.00	0.00	2,698.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	9	118.00	46.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	8	20.00	0.00	14,860.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Building Construction	9	114.00	44.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Architectural Coating	1	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Grading	8	20.00	0.00	2,020.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Building Construction	9	79.00	31.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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Phase 4 Demo	6	15.00	0.00	315.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building E Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Phase 1 Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1896	122.1896	0.0250	0.0000	122.8149
Total	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1896	122.1896	0.0250	0.0000	122.8149

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3.2 Phase 1 Utilities - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6800e-003	1.9500e-003	0.0229	7.0000e-005	7.4600e-003	4.0000e-005	7.5000e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.1333	6.1333	1.9000e-004	1.8000e-004	6.1909
Total	2.6800e-003	1.9500e-003	0.0229	7.0000e-005	7.4600e-003	4.0000e-005	7.5000e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.1333	6.1333	1.9000e-004	1.8000e-004	6.1909

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1894	122.1894	0.0250	0.0000	122.8148
Total	0.0562	0.5418	0.8481	1.4000e-003		0.0236	0.0236		0.0228	0.0228	0.0000	122.1894	122.1894	0.0250	0.0000	122.8148

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3.2 Phase 1 Utilities - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6800e-003	1.9500e-003	0.0229	7.0000e-005	7.4600e-003	4.0000e-005	7.5000e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.1333	6.1333	1.9000e-004	1.8000e-004	6.1909
Total	2.6800e-003	1.9500e-003	0.0229	7.0000e-005	7.4600e-003	4.0000e-005	7.5000e-003	1.9800e-003	4.0000e-005	2.0200e-003	0.0000	6.1333	6.1333	1.9000e-004	1.8000e-004	6.1909

3.3 Phase 1 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3348	0.0000	0.3348	0.1736	0.0000	0.1736	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2204	2.4467	1.5036	3.6800e-003		0.0983	0.0983		0.0904	0.0904	0.0000	323.6294	323.6294	0.1047	0.0000	326.2461
Total	0.2204	2.4467	1.5036	3.6800e-003	0.3348	0.0983	0.4331	0.1736	0.0904	0.2640	0.0000	323.6294	323.6294	0.1047	0.0000	326.2461

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 1 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0423	1.6079	0.3792	5.9900e-003	0.1635	0.0150	0.1785	0.0449	0.0143	0.0592	0.0000	598.5187	598.5187	0.0288	0.0951	627.5717
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9700e-003	2.1600e-003	0.0253	7.0000e-005	8.2600e-003	5.0000e-005	8.3100e-003	2.1900e-003	4.0000e-005	2.2400e-003	0.0000	6.7928	6.7928	2.1000e-004	2.0000e-004	6.8566
Total	0.0453	1.6100	0.4045	6.0600e-003	0.1718	0.0150	0.1868	0.0471	0.0143	0.0615	0.0000	605.3116	605.3116	0.0290	0.0953	634.4283

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3348	0.0000	0.3348	0.1736	0.0000	0.1736	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2204	2.4467	1.5036	3.6800e-003		0.0983	0.0983		0.0904	0.0904	0.0000	323.6290	323.6290	0.1047	0.0000	326.2457
Total	0.2204	2.4467	1.5036	3.6800e-003	0.3348	0.0983	0.4331	0.1736	0.0904	0.2640	0.0000	323.6290	323.6290	0.1047	0.0000	326.2457

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3.3 Phase 1 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0423	1.6079	0.3792	5.9900e-003	0.1635	0.0150	0.1785	0.0449	0.0143	0.0592	0.0000	598.5187	598.5187	0.0288	0.0951	627.5717
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9700e-003	2.1600e-003	0.0253	7.0000e-005	8.2600e-003	5.0000e-005	8.3100e-003	2.1900e-003	4.0000e-005	2.2400e-003	0.0000	6.7928	6.7928	2.1000e-004	2.0000e-004	6.8566
Total	0.0453	1.6100	0.4045	6.0600e-003	0.1718	0.0150	0.1868	0.0471	0.0143	0.0615	0.0000	605.3116	605.3116	0.0290	0.0953	634.4283

3.4 Phase 1 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9762	76.9762	0.0189	0.0000	77.4480
Total	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9762	76.9762	0.0189	0.0000	77.4480

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3.4 Phase 1 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8800e-003	0.0717	0.0235	2.8000e-004	8.6500e-003	7.5000e-004	9.4000e-003	2.5000e-003	7.2000e-004	3.2200e-003	0.0000	27.1518	27.1518	8.2000e-004	3.9400e-003	28.3478
Worker	9.5700e-003	6.9500e-003	0.0815	2.4000e-004	0.0266	1.5000e-004	0.0268	7.0700e-003	1.4000e-004	7.2100e-003	0.0000	21.8756	21.8756	6.9000e-004	6.3000e-004	22.0809
Total	0.0125	0.0786	0.1050	5.2000e-004	0.0353	9.0000e-004	0.0362	9.5700e-003	8.6000e-004	0.0104	0.0000	49.0274	49.0274	1.5100e-003	4.5700e-003	50.4287

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9761	76.9761	0.0189	0.0000	77.4479
Total	0.0563	0.5198	0.5406	8.9000e-004		0.0268	0.0268		0.0252	0.0252	0.0000	76.9761	76.9761	0.0189	0.0000	77.4479

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3.4 Phase 1 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8800e-003	0.0717	0.0235	2.8000e-004	8.6500e-003	7.5000e-004	9.4000e-003	2.5000e-003	7.2000e-004	3.2200e-003	0.0000	27.1518	27.1518	8.2000e-004	3.9400e-003	28.3478
Worker	9.5700e-003	6.9500e-003	0.0815	2.4000e-004	0.0266	1.5000e-004	0.0268	7.0700e-003	1.4000e-004	7.2100e-003	0.0000	21.8756	21.8756	6.9000e-004	6.3000e-004	22.0809
Total	0.0125	0.0786	0.1050	5.2000e-004	0.0353	9.0000e-004	0.0362	9.5700e-003	8.6000e-004	0.0104	0.0000	49.0274	49.0274	1.5100e-003	4.5700e-003	50.4287

3.4 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9214	322.9214	0.0787	0.0000	324.8880
Total	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9214	322.9214	0.0787	0.0000	324.8880

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4100e-003	0.2424	0.0855	1.1200e-003	0.0363	1.4300e-003	0.0377	0.0105	1.3700e-003	0.0118	0.0000	109.5551	109.5551	3.3100e-003	0.0159	114.3685
Worker	0.0376	0.0261	0.3179	9.6000e-004	0.1116	6.1000e-004	0.1122	0.0296	5.7000e-004	0.0302	0.0000	89.3724	89.3724	2.6200e-003	2.4600e-003	90.1717
Total	0.0441	0.2685	0.4033	2.0800e-003	0.1478	2.0400e-003	0.1499	0.0401	1.9400e-003	0.0421	0.0000	198.9275	198.9275	5.9300e-003	0.0183	204.5402

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9211	322.9211	0.0787	0.0000	324.8876
Total	0.2176	2.0069	2.2503	3.7500e-003		0.0973	0.0973		0.0914	0.0914	0.0000	322.9211	322.9211	0.0787	0.0000	324.8876

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3.4 Phase 1 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4100e-003	0.2424	0.0855	1.1200e-003	0.0363	1.4300e-003	0.0377	0.0105	1.3700e-003	0.0118	0.0000	109.5551	109.5551	3.3100e-003	0.0159	114.3685
Worker	0.0376	0.0261	0.3179	9.6000e-004	0.1116	6.1000e-004	0.1122	0.0296	5.7000e-004	0.0302	0.0000	89.3724	89.3724	2.6200e-003	2.4600e-003	90.1717
Total	0.0441	0.2685	0.4033	2.0800e-003	0.1478	2.0400e-003	0.1499	0.0401	1.9400e-003	0.0421	0.0000	198.9275	198.9275	5.9300e-003	0.0183	204.5402

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1112	303.1112	0.0734	0.0000	304.9472
Total	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1112	303.1112	0.0734	0.0000	304.9472

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7900e-003	0.2259	0.0784	1.0300e-003	0.0340	1.3500e-003	0.0354	9.8200e-003	1.2900e-003	0.0111	0.0000	101.0225	101.0225	3.1800e-003	0.0146	105.4636
Worker	0.0332	0.0220	0.2792	8.7000e-004	0.1047	5.5000e-004	0.1052	0.0278	5.1000e-004	0.0283	0.0000	81.7707	81.7707	2.2400e-003	2.1600e-003	82.4701
Total	0.0390	0.2479	0.3575	1.9000e-003	0.1387	1.9000e-003	0.1406	0.0376	1.8000e-003	0.0394	0.0000	182.7931	182.7931	5.4200e-003	0.0168	187.9337

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1108	303.1108	0.0734	0.0000	304.9468
Total	0.1912	1.7598	2.1017	3.5200e-003		0.0801	0.0801		0.0752	0.0752	0.0000	303.1108	303.1108	0.0734	0.0000	304.9468

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7900e-003	0.2259	0.0784	1.0300e-003	0.0340	1.3500e-003	0.0354	9.8200e-003	1.2900e-003	0.0111	0.0000	101.0225	101.0225	3.1800e-003	0.0146	105.4636
Worker	0.0332	0.0220	0.2792	8.7000e-004	0.1047	5.5000e-004	0.1052	0.0278	5.1000e-004	0.0283	0.0000	81.7707	81.7707	2.2400e-003	2.1600e-003	82.4701
Total	0.0390	0.2479	0.3575	1.9000e-003	0.1387	1.9000e-003	0.1406	0.0376	1.8000e-003	0.0394	0.0000	182.7931	182.7931	5.4200e-003	0.0168	187.9337

3.5 Phase 1 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0909	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2364	176.2364	0.0570	0.0000	177.6614
Paving	1.2900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0922	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2364	176.2364	0.0570	0.0000	177.6614

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3.5 Phase 1 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5700e-003	2.4700e-003	0.0302	9.0000e-005	0.0106	6.0000e-005	0.0106	2.8100e-003	5.0000e-005	2.8700e-003	0.0000	8.4811	8.4811	2.5000e-004	2.3000e-004	8.5569
Total	3.5700e-003	2.4700e-003	0.0302	9.0000e-005	0.0106	6.0000e-005	0.0106	2.8100e-003	5.0000e-005	2.8700e-003	0.0000	8.4811	8.4811	2.5000e-004	2.3000e-004	8.5569

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0909	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2362	176.2362	0.0570	0.0000	177.6612
Paving	1.2900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0922	0.8969	1.2834	2.0100e-003		0.0449	0.0449		0.0413	0.0413	0.0000	176.2362	176.2362	0.0570	0.0000	177.6612

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3.5 Phase 1 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5700e-003	2.4700e-003	0.0302	9.0000e-005	0.0106	6.0000e-005	0.0106	2.8100e-003	5.0000e-005	2.8700e-003	0.0000	8.4811	8.4811	2.5000e-004	2.3000e-004	8.5569
Total	3.5700e-003	2.4700e-003	0.0302	9.0000e-005	0.0106	6.0000e-005	0.0106	2.8100e-003	5.0000e-005	2.8700e-003	0.0000	8.4811	8.4811	2.5000e-004	2.3000e-004	8.5569

3.5 Phase 1 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9300e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131
Paving	9.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.0200e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.5000e-004	1.9200e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5638	0.5638	2.0000e-005	1.0000e-005	0.5686
Total	2.3000e-004	1.5000e-004	1.9200e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5638	0.5638	2.0000e-005	1.0000e-005	0.5686

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9300e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131
Paving	9.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.0200e-003	0.0572	0.0878	1.4000e-004		2.8100e-003	2.8100e-003		2.5900e-003	2.5900e-003	0.0000	12.0159	12.0159	3.8900e-003	0.0000	12.1131

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.5000e-004	1.9200e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5638	0.5638	2.0000e-005	1.0000e-005	0.5686
Total	2.3000e-004	1.5000e-004	1.9200e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5638	0.5638	2.0000e-005	1.0000e-005	0.5686

3.6 Demo Existing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1436	0.0000	0.1436	0.0218	0.0000	0.0218	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1167	1.1302	0.8986	1.8700e-003		0.0521	0.0521		0.0483	0.0483	0.0000	163.9032	163.9032	0.0472	0.0000	165.0829
Total	0.1167	1.1302	0.8986	1.8700e-003	0.1436	0.0521	0.1957	0.0218	0.0483	0.0701	0.0000	163.9032	163.9032	0.0472	0.0000	165.0829

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Demo Existing - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4500e-003	0.0890	0.0237	3.9000e-004	0.0112	7.3000e-004	0.0120	3.0800e-003	7.0000e-004	3.7800e-003	0.0000	39.3328	39.3328	1.9800e-003	6.2600e-003	41.2463
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	1.1100e-003	0.0135	4.0000e-005	4.7500e-003	3.0000e-005	4.7800e-003	1.2600e-003	2.0000e-005	1.2900e-003	0.0000	3.8068	3.8068	1.1000e-004	1.0000e-004	3.8409
Total	3.0500e-003	0.0901	0.0372	4.3000e-004	0.0160	7.6000e-004	0.0167	4.3400e-003	7.2000e-004	5.0700e-003	0.0000	43.1397	43.1397	2.0900e-003	6.3600e-003	45.0872

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1436	0.0000	0.1436	0.0218	0.0000	0.0218	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1167	1.1302	0.8986	1.8700e-003		0.0521	0.0521		0.0483	0.0483	0.0000	163.9031	163.9031	0.0472	0.0000	165.0827
Total	0.1167	1.1302	0.8986	1.8700e-003	0.1436	0.0521	0.1957	0.0218	0.0483	0.0701	0.0000	163.9031	163.9031	0.0472	0.0000	165.0827

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Demo Existing - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4500e-003	0.0890	0.0237	3.9000e-004	0.0112	7.3000e-004	0.0120	3.0800e-003	7.0000e-004	3.7800e-003	0.0000	39.3328	39.3328	1.9800e-003	6.2600e-003	41.2463
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-003	1.1100e-003	0.0135	4.0000e-005	4.7500e-003	3.0000e-005	4.7800e-003	1.2600e-003	2.0000e-005	1.2900e-003	0.0000	3.8068	3.8068	1.1000e-004	1.0000e-004	3.8409
Total	3.0500e-003	0.0901	0.0372	4.3000e-004	0.0160	7.6000e-004	0.0167	4.3400e-003	7.2000e-004	5.0700e-003	0.0000	43.1397	43.1397	2.0900e-003	6.3600e-003	45.0872

3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1204	0.0000	0.1204	0.0662	0.0000	0.0662	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.1656	0.0956	2.2000e-004		7.5600e-003	7.5600e-003		6.9500e-003	6.9500e-003	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631
Total	0.0160	0.1656	0.0956	2.2000e-004	0.1204	7.5600e-003	0.1280	0.0662	6.9500e-003	0.0732	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.7000e-004	2.0600e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5783	0.5783	2.0000e-005	2.0000e-005	0.5834
Total	2.4000e-004	1.7000e-004	2.0600e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5783	0.5783	2.0000e-005	2.0000e-005	0.5834

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1204	0.0000	0.1204	0.0662	0.0000	0.0662	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.1656	0.0956	2.2000e-004		7.5600e-003	7.5600e-003		6.9500e-003	6.9500e-003	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631
Total	0.0160	0.1656	0.0956	2.2000e-004	0.1204	7.5600e-003	0.1280	0.0662	6.9500e-003	0.0732	0.0000	19.1086	19.1086	6.1800e-003	0.0000	19.2631

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3.7 Phase 1 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.7000e-004	2.0600e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5783	0.5783	2.0000e-005	2.0000e-005	0.5834
Total	2.4000e-004	1.7000e-004	2.0600e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5783	0.5783	2.0000e-005	2.0000e-005	0.5834

3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.6618	0.0000	2.6618	1.4631	0.0000	1.4631	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3549	3.6305	2.1250	4.8100e-003		0.1640	0.1640		0.1509	0.1509	0.0000	422.3501	422.3501	0.1366	0.0000	425.7650
Total	0.3549	3.6305	2.1250	4.8100e-003	2.6618	0.1640	2.8258	1.4631	0.1509	1.6140	0.0000	422.3501	422.3501	0.1366	0.0000	425.7650

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3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0600e-003	3.3500e-003	0.0425	1.3000e-004	0.0160	8.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.4592	12.4592	3.4000e-004	3.3000e-004	12.5657
Total	5.0600e-003	3.3500e-003	0.0425	1.3000e-004	0.0160	8.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.4592	12.4592	3.4000e-004	3.3000e-004	12.5657

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.6618	0.0000	2.6618	1.4631	0.0000	1.4631	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3549	3.6305	2.1250	4.8100e-003		0.1640	0.1640		0.1509	0.1509	0.0000	422.3496	422.3496	0.1366	0.0000	425.7645
Total	0.3549	3.6305	2.1250	4.8100e-003	2.6618	0.1640	2.8258	1.4631	0.1509	1.6140	0.0000	422.3496	422.3496	0.1366	0.0000	425.7645

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3.7 Phase 1 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0600e-003	3.3500e-003	0.0425	1.3000e-004	0.0160	8.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.4592	12.4592	3.4000e-004	3.3000e-004	12.5657
Total	5.0600e-003	3.3500e-003	0.0425	1.3000e-004	0.0160	8.0000e-005	0.0160	4.2400e-003	8.0000e-005	4.3200e-003	0.0000	12.4592	12.4592	3.4000e-004	3.3000e-004	12.5657

3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366
Total	1.2273	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366

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3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3100e-003	2.1900e-003	0.0278	9.0000e-005	0.0104	5.0000e-005	0.0105	2.7700e-003	5.0000e-005	2.8200e-003	0.0000	8.1558	8.1558	2.2000e-004	2.2000e-004	8.2255
Total	3.3100e-003	2.1900e-003	0.0278	9.0000e-005	0.0104	5.0000e-005	0.0105	2.7700e-003	5.0000e-005	2.8200e-003	0.0000	8.1558	8.1558	2.2000e-004	2.2000e-004	8.2255

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2124					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366
Total	1.2273	0.1008	0.1496	2.5000e-004		5.0400e-003	5.0400e-003		5.0400e-003	5.0400e-003	0.0000	21.1069	21.1069	1.1900e-003	0.0000	21.1366

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Phase 1 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3100e-003	2.1900e-003	0.0278	9.0000e-005	0.0104	5.0000e-005	0.0105	2.7700e-003	5.0000e-005	2.8200e-003	0.0000	8.1558	8.1558	2.2000e-004	2.2000e-004	8.2255
Total	3.3100e-003	2.1900e-003	0.0278	9.0000e-005	0.0104	5.0000e-005	0.0105	2.7700e-003	5.0000e-005	2.8200e-003	0.0000	8.1558	8.1558	2.2000e-004	2.2000e-004	8.2255

3.9 Phase 2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1054	0.0000	0.1054	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0483	0.4857	0.4158	9.3000e-004		0.0200	0.0200		0.0184	0.0184	0.0000	81.7793	81.7793	0.0265	0.0000	82.4405
Total	0.0483	0.4857	0.4158	9.3000e-004	0.1054	0.0200	0.1254	0.0513	0.0184	0.0698	0.0000	81.7793	81.7793	0.0265	0.0000	82.4405

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3.9 Phase 2 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.9400e-003	0.1815	0.0494	7.9000e-004	0.0231	1.5100e-003	0.0246	6.3500e-003	1.4400e-003	7.7900e-003	0.0000	79.5350	79.5350	4.2000e-003	0.0127	83.4121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	5.1000e-004	6.4200e-003	2.0000e-005	2.4100e-003	1.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8792	1.8792	5.0000e-005	5.0000e-005	1.8953
Total	3.7000e-003	0.1820	0.0558	8.1000e-004	0.0255	1.5200e-003	0.0270	6.9900e-003	1.4500e-003	8.4400e-003	0.0000	81.4142	81.4142	4.2500e-003	0.0127	85.3073

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1054	0.0000	0.1054	0.0513	0.0000	0.0513	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0483	0.4857	0.4158	9.3000e-004		0.0200	0.0200		0.0184	0.0184	0.0000	81.7792	81.7792	0.0265	0.0000	82.4404
Total	0.0483	0.4857	0.4158	9.3000e-004	0.1054	0.0200	0.1254	0.0513	0.0184	0.0698	0.0000	81.7792	81.7792	0.0265	0.0000	82.4404

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3.9 Phase 2 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.9400e-003	0.1815	0.0494	7.9000e-004	0.0231	1.5100e-003	0.0246	6.3500e-003	1.4400e-003	7.7900e-003	0.0000	79.5350	79.5350	4.2000e-003	0.0127	83.4121
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	5.1000e-004	6.4200e-003	2.0000e-005	2.4100e-003	1.0000e-005	2.4200e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8792	1.8792	5.0000e-005	5.0000e-005	1.8953
Total	3.7000e-003	0.1820	0.0558	8.1000e-004	0.0255	1.5200e-003	0.0270	6.9900e-003	1.4500e-003	8.4400e-003	0.0000	81.4142	81.4142	4.2500e-003	0.0127	85.3073

3.10 Phase 2 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4991	120.4991	0.0292	0.0000	121.2290
Total	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4991	120.4991	0.0292	0.0000	121.2290

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3.10 Phase 2 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5200e-003	0.0984	0.0341	4.5000e-004	0.0148	5.9000e-004	0.0154	4.2800e-003	5.6000e-004	4.8400e-003	0.0000	43.9854	43.9854	1.3800e-003	6.3700e-003	45.9191
Worker	0.0146	9.6400e-003	0.1224	3.8000e-004	0.0459	2.4000e-004	0.0461	0.0122	2.2000e-004	0.0124	0.0000	35.8491	35.8491	9.8000e-004	9.5000e-004	36.1557
Total	0.0171	0.1080	0.1565	8.3000e-004	0.0607	8.3000e-004	0.0615	0.0165	7.8000e-004	0.0173	0.0000	79.8344	79.8344	2.3600e-003	7.3200e-003	82.0747

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4990	120.4990	0.0292	0.0000	121.2289
Total	0.0760	0.6996	0.8355	1.4000e-003		0.0318	0.0318		0.0299	0.0299	0.0000	120.4990	120.4990	0.0292	0.0000	121.2289

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3.10 Phase 2 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5200e-003	0.0984	0.0341	4.5000e-004	0.0148	5.9000e-004	0.0154	4.2800e-003	5.6000e-004	4.8400e-003	0.0000	43.9854	43.9854	1.3800e-003	6.3700e-003	45.9191
Worker	0.0146	9.6400e-003	0.1224	3.8000e-004	0.0459	2.4000e-004	0.0461	0.0122	2.2000e-004	0.0124	0.0000	35.8491	35.8491	9.8000e-004	9.5000e-004	36.1557
Total	0.0171	0.1080	0.1565	8.3000e-004	0.0607	8.3000e-004	0.0615	0.0165	7.8000e-004	0.0173	0.0000	79.8344	79.8344	2.3600e-003	7.3200e-003	82.0747

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884
Total	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5700e-003	0.2621	0.0903	1.1800e-003	0.0399	1.5700e-003	0.0414	0.0115	1.5100e-003	0.0130	0.0000	116.0964	116.0964	3.8200e-003	0.0168	121.2016
Worker	0.0369	0.0235	0.3093	1.0000e-003	0.1235	6.2000e-004	0.1241	0.0328	5.7000e-004	0.0334	0.0000	94.1039	94.1039	2.4100e-003	2.3900e-003	94.8765
Total	0.0435	0.2856	0.3996	2.1800e-003	0.1634	2.1900e-003	0.1656	0.0443	2.0800e-003	0.0464	0.0000	210.2003	210.2003	6.2300e-003	0.0192	216.0781

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881
Total	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881

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3.10 Phase 2 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5700e-003	0.2621	0.0903	1.1800e-003	0.0399	1.5700e-003	0.0414	0.0115	1.5100e-003	0.0130	0.0000	116.0964	116.0964	3.8200e-003	0.0168	121.2016
Worker	0.0369	0.0235	0.3093	1.0000e-003	0.1235	6.2000e-004	0.1241	0.0328	5.7000e-004	0.0334	0.0000	94.1039	94.1039	2.4100e-003	2.3900e-003	94.8765
Total	0.0435	0.2856	0.3996	2.1800e-003	0.1634	2.1900e-003	0.1656	0.0443	2.0800e-003	0.0464	0.0000	210.2003	210.2003	6.2300e-003	0.0192	216.0781

3.10 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012
Total	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	7.9500e-003	2.7300e-003	4.0000e-005	1.2200e-003	5.0000e-005	1.2700e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	3.4906	3.4906	1.2000e-004	5.1000e-004	3.6441
Worker	1.0700e-003	6.6000e-004	8.9500e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8000e-003	1.0100e-003	2.0000e-005	1.0200e-003	0.0000	2.8172	2.8172	7.0000e-005	7.0000e-005	2.8395
Total	1.2700e-003	8.6100e-003	0.0117	7.0000e-005	5.0100e-003	7.0000e-005	5.0700e-003	1.3600e-003	7.0000e-005	1.4200e-003	0.0000	6.3078	6.3078	1.9000e-004	5.8000e-004	6.4836

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012
Total	5.8200e-003	0.0535	0.0686	1.2000e-004		2.2600e-003	2.2600e-003		2.1200e-003	2.1200e-003	0.0000	9.9413	9.9413	2.4000e-003	0.0000	10.0012

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3.10 Phase 2 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	7.9500e-003	2.7300e-003	4.0000e-005	1.2200e-003	5.0000e-005	1.2700e-003	3.5000e-004	5.0000e-005	4.0000e-004	0.0000	3.4906	3.4906	1.2000e-004	5.1000e-004	3.6441
Worker	1.0700e-003	6.6000e-004	8.9500e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8000e-003	1.0100e-003	2.0000e-005	1.0200e-003	0.0000	2.8172	2.8172	7.0000e-005	7.0000e-005	2.8395
Total	1.2700e-003	8.6100e-003	0.0117	7.0000e-005	5.0100e-003	7.0000e-005	5.0700e-003	1.3600e-003	7.0000e-005	1.4200e-003	0.0000	6.3078	6.3078	1.9000e-004	5.8000e-004	6.4836

3.11 Phase 3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2056	0.0000	0.2056	0.1037	0.0000	0.1037	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0885	0.8523	0.8031	1.8900e-003		0.0345	0.0345		0.0317	0.0317	0.0000	166.2440	166.2440	0.0538	0.0000	167.5881
Total	0.0885	0.8523	0.8031	1.8900e-003	0.2056	0.0345	0.2400	0.1037	0.0317	0.1354	0.0000	166.2440	166.2440	0.0538	0.0000	167.5881

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3.11 Phase 3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0160	0.9861	0.2759	4.2600e-003	0.1273	8.2700e-003	0.1355	0.0350	7.9200e-003	0.0429	0.0000	429.1798	429.1798	0.0239	0.0684	450.1470
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4600e-003	9.3000e-004	0.0123	4.0000e-005	4.8900e-003	2.0000e-005	4.9200e-003	1.3000e-003	2.0000e-005	1.3200e-003	0.0000	3.7277	3.7277	1.0000e-004	9.0000e-005	3.7583
Total	0.0175	0.9870	0.2881	4.3000e-003	0.1322	8.2900e-003	0.1405	0.0363	7.9400e-003	0.0442	0.0000	432.9075	432.9075	0.0240	0.0685	453.9054

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2056	0.0000	0.2056	0.1037	0.0000	0.1037	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0885	0.8523	0.8031	1.8900e-003		0.0345	0.0345		0.0317	0.0317	0.0000	166.2438	166.2438	0.0538	0.0000	167.5879
Total	0.0885	0.8523	0.8031	1.8900e-003	0.2056	0.0345	0.2400	0.1037	0.0317	0.1354	0.0000	166.2438	166.2438	0.0538	0.0000	167.5879

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3.11 Phase 3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0160	0.9861	0.2759	4.2600e-003	0.1273	8.2700e-003	0.1355	0.0350	7.9200e-003	0.0429	0.0000	429.1798	429.1798	0.0239	0.0684	450.1470
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4600e-003	9.3000e-004	0.0123	4.0000e-005	4.8900e-003	2.0000e-005	4.9200e-003	1.3000e-003	2.0000e-005	1.3200e-003	0.0000	3.7277	3.7277	1.0000e-004	9.0000e-005	3.7583
Total	0.0175	0.9870	0.2881	4.3000e-003	0.1322	8.2900e-003	0.1405	0.0363	7.9400e-003	0.0442	0.0000	432.9075	432.9075	0.0240	0.0685	453.9054

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4950	212.4950	0.0512	0.0000	213.7752
Total	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4950	212.4950	0.0512	0.0000	213.7752

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1200e-003	0.1642	0.0566	7.4000e-004	0.0250	9.9000e-004	0.0260	7.2100e-003	9.4000e-004	8.1600e-003	0.0000	72.7561	72.7561	2.3900e-003	0.0105	75.9554
Worker	0.0234	0.0149	0.1958	6.3000e-004	0.0782	3.9000e-004	0.0786	0.0208	3.6000e-004	0.0211	0.0000	59.5643	59.5643	1.5300e-003	1.5100e-003	60.0533
Total	0.0275	0.1791	0.2524	1.3700e-003	0.1031	1.3800e-003	0.1045	0.0280	1.3000e-003	0.0293	0.0000	132.3204	132.3204	3.9200e-003	0.0121	136.0087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4948	212.4948	0.0512	0.0000	213.7749
Total	0.1245	1.1428	1.4653	2.4700e-003		0.0483	0.0483		0.0454	0.0454	0.0000	212.4948	212.4948	0.0512	0.0000	213.7749

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1200e-003	0.1642	0.0566	7.4000e-004	0.0250	9.9000e-004	0.0260	7.2100e-003	9.4000e-004	8.1600e-003	0.0000	72.7561	72.7561	2.3900e-003	0.0105	75.9554
Worker	0.0234	0.0149	0.1958	6.3000e-004	0.0782	3.9000e-004	0.0786	0.0208	3.6000e-004	0.0211	0.0000	59.5643	59.5643	1.5300e-003	1.5100e-003	60.0533
Total	0.0275	0.1791	0.2524	1.3700e-003	0.1031	1.3800e-003	0.1045	0.0280	1.3000e-003	0.0293	0.0000	132.3204	132.3204	3.9200e-003	0.0121	136.0087

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884
Total	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3345	324.3345	0.0782	0.0000	326.2884

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1100e-003	0.2480	0.0853	1.1100e-003	0.0381	1.4900e-003	0.0396	0.0110	1.4300e-003	0.0124	0.0000	108.9287	108.9287	3.7400e-003	0.0158	113.7206
Worker	0.0337	0.0207	0.2822	9.3000e-004	0.1193	5.7000e-004	0.1199	0.0317	5.3000e-004	0.0322	0.0000	88.7946	88.7946	2.1300e-003	2.1800e-003	89.4984
Total	0.0399	0.2687	0.3675	2.0400e-003	0.1574	2.0600e-003	0.1595	0.0427	1.9600e-003	0.0447	0.0000	197.7233	197.7233	5.8700e-003	0.0180	203.2190

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881
Total	0.1900	1.7443	2.2365	3.7700e-003		0.0737	0.0737		0.0692	0.0692	0.0000	324.3341	324.3341	0.0782	0.0000	326.2881

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1100e-003	0.2480	0.0853	1.1100e-003	0.0381	1.4900e-003	0.0396	0.0110	1.4300e-003	0.0124	0.0000	108.9287	108.9287	3.7400e-003	0.0158	113.7206
Worker	0.0337	0.0207	0.2822	9.3000e-004	0.1193	5.7000e-004	0.1199	0.0317	5.3000e-004	0.0322	0.0000	88.7946	88.7946	2.1300e-003	2.1800e-003	89.4984
Total	0.0399	0.2687	0.3675	2.0400e-003	0.1574	2.0600e-003	0.1595	0.0427	1.9600e-003	0.0447	0.0000	197.7233	197.7233	5.8700e-003	0.0180	203.2190

3.12 Phase 3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7886	162.7886	0.0392	0.0000	163.7693
Total	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7886	162.7886	0.0392	0.0000	163.7693

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9900e-003	0.1231	0.0424	5.4000e-004	0.0191	7.4000e-004	0.0199	5.5300e-003	7.1000e-004	6.2400e-003	0.0000	53.5427	53.5427	1.9200e-003	7.7500e-003	55.8996
Worker	0.0160	9.5500e-003	0.1345	4.5000e-004	0.0599	2.7000e-004	0.0602	0.0159	2.5000e-004	0.0162	0.0000	43.6045	43.6045	9.8000e-004	1.0400e-003	43.9395
Total	0.0190	0.1327	0.1769	9.9000e-004	0.0790	1.0100e-003	0.0800	0.0214	9.6000e-004	0.0224	0.0000	97.1472	97.1472	2.9000e-003	8.7900e-003	99.8392

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7884	162.7884	0.0392	0.0000	163.7691
Total	0.0954	0.8755	1.1225	1.8900e-003		0.0370	0.0370		0.0347	0.0347	0.0000	162.7884	162.7884	0.0392	0.0000	163.7691

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9900e-003	0.1231	0.0424	5.4000e-004	0.0191	7.4000e-004	0.0199	5.5300e-003	7.1000e-004	6.2400e-003	0.0000	53.5427	53.5427	1.9200e-003	7.7500e-003	55.8996
Worker	0.0160	9.5500e-003	0.1345	4.5000e-004	0.0599	2.7000e-004	0.0602	0.0159	2.5000e-004	0.0162	0.0000	43.6045	43.6045	9.8000e-004	1.0400e-003	43.9395
Total	0.0190	0.1327	0.1769	9.9000e-004	0.0790	1.0100e-003	0.0800	0.0214	9.6000e-004	0.0224	0.0000	97.1472	97.1472	2.9000e-003	8.7900e-003	99.8392

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0501					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5800e-003	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520
Total	1.0557	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4100e-003	9.0000e-004	0.0118	4.0000e-005	4.7200e-003	2.0000e-005	4.7400e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.5933	3.5933	9.0000e-005	9.0000e-005	3.6228
Total	1.4100e-003	9.0000e-004	0.0118	4.0000e-005	4.7200e-003	2.0000e-005	4.7400e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.5933	3.5933	9.0000e-005	9.0000e-005	3.6228

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0501					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5800e-003	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520
Total	1.0557	0.0374	0.0591	1.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	8.3406	8.3406	4.5000e-004	0.0000	8.3520

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4100e-003	9.0000e-004	0.0118	4.0000e-005	4.7200e-003	2.0000e-005	4.7400e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.5933	3.5933	9.0000e-005	9.0000e-005	3.6228
Total	1.4100e-003	9.0000e-004	0.0118	4.0000e-005	4.7200e-003	2.0000e-005	4.7400e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.5933	3.5933	9.0000e-005	9.0000e-005	3.6228

3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636
Total	0.1724	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636

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3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.3000e-004	1.8200e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5730	0.5730	1.0000e-005	1.0000e-005	0.5775
Total	2.2000e-004	1.3000e-004	1.8200e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5730	0.5730	1.0000e-005	1.0000e-005	0.5775

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1715					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-004	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636
Total	0.1724	6.1100e-003	9.6500e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	1.3617	1.3617	7.0000e-005	0.0000	1.3636

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.3000e-004	1.8200e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5730	0.5730	1.0000e-005	1.0000e-005	0.5775
Total	2.2000e-004	1.3000e-004	1.8200e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5730	0.5730	1.0000e-005	1.0000e-005	0.5775

3.14 Phase 3 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0966	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2031	211.2031	0.0683	0.0000	212.9108
Paving	1.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0979	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2031	211.2031	0.0683	0.0000	212.9108

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5900e-003	2.2000e-003	0.0300	1.0000e-004	0.0127	6.0000e-005	0.0128	3.3700e-003	6.0000e-005	3.4300e-003	0.0000	9.4453	9.4453	2.3000e-004	2.3000e-004	9.5202
Total	3.5900e-003	2.2000e-003	0.0300	1.0000e-004	0.0127	6.0000e-005	0.0128	3.3700e-003	6.0000e-005	3.4300e-003	0.0000	9.4453	9.4453	2.3000e-004	2.3000e-004	9.5202

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0966	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2029	211.2029	0.0683	0.0000	212.9106
Paving	1.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0979	0.9054	1.5380	2.4100e-003		0.0442	0.0442		0.0406	0.0406	0.0000	211.2029	211.2029	0.0683	0.0000	212.9106

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5900e-003	2.2000e-003	0.0300	1.0000e-004	0.0127	6.0000e-005	0.0128	3.3700e-003	6.0000e-005	3.4300e-003	0.0000	9.4453	9.4453	2.3000e-004	2.3000e-004	9.5202
Total	3.5900e-003	2.2000e-003	0.0300	1.0000e-004	0.0127	6.0000e-005	0.0128	3.3700e-003	6.0000e-005	3.4300e-003	0.0000	9.4453	9.4453	2.3000e-004	2.3000e-004	9.5202

3.15 Phase 4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0448	0.0000	0.0448	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1397	0.1317	3.1000e-004		5.6500e-003	5.6500e-003		5.2000e-003	5.2000e-003	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4735
Total	0.0145	0.1397	0.1317	3.1000e-004	0.0448	5.6500e-003	0.0504	0.0182	5.2000e-003	0.0234	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4735

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1500e-003	0.1320	0.0380	5.7000e-004	0.0173	1.1100e-003	0.0184	4.7500e-003	1.0700e-003	5.8200e-003	0.0000	57.1232	57.1232	3.3400e-003	9.1100e-003	59.9200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.4000e-004	1.9000e-003	1.0000e-005	8.0000e-004	0.0000	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.5969	0.5969	1.0000e-005	1.0000e-005	0.6016
Total	2.3800e-003	0.1321	0.0399	5.8000e-004	0.0181	1.1100e-003	0.0192	4.9600e-003	1.0700e-003	6.0400e-003	0.0000	57.7200	57.7200	3.3500e-003	9.1200e-003	60.5216

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0448	0.0000	0.0448	0.0182	0.0000	0.0182	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0145	0.1397	0.1317	3.1000e-004		5.6500e-003	5.6500e-003		5.2000e-003	5.2000e-003	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4734
Total	0.0145	0.1397	0.1317	3.1000e-004	0.0448	5.6500e-003	0.0504	0.0182	5.2000e-003	0.0234	0.0000	27.2531	27.2531	8.8100e-003	0.0000	27.4734

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1500e-003	0.1320	0.0380	5.7000e-004	0.0173	1.1100e-003	0.0184	4.7500e-003	1.0700e-003	5.8200e-003	0.0000	57.1232	57.1232	3.3400e-003	9.1100e-003	59.9200
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.4000e-004	1.9000e-003	1.0000e-005	8.0000e-004	0.0000	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.5969	0.5969	1.0000e-005	1.0000e-005	0.6016
Total	2.3800e-003	0.1321	0.0399	5.8000e-004	0.0181	1.1100e-003	0.0192	4.9600e-003	1.0700e-003	6.0400e-003	0.0000	57.7200	57.7200	3.3500e-003	9.1200e-003	60.5216

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9216	224.9216	0.0542	0.0000	226.2767
Total	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9216	224.9216	0.0542	0.0000	226.2767

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9800e-003	0.1212	0.0417	5.4000e-004	0.0186	7.3000e-004	0.0194	5.3800e-003	7.0000e-004	6.0800e-003	0.0000	53.2218	53.2218	1.8300e-003	7.7000e-003	55.5631
Worker	0.0162	9.9500e-003	0.1356	4.5000e-004	0.0573	2.7000e-004	0.0576	0.0152	2.5000e-004	0.0155	0.0000	42.6724	42.6724	1.0200e-003	1.0500e-003	43.0106
Total	0.0192	0.1311	0.1773	9.9000e-004	0.0760	1.0000e-003	0.0770	0.0206	9.5000e-004	0.0216	0.0000	95.8942	95.8942	2.8500e-003	8.7500e-003	98.5737

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9214	224.9214	0.0542	0.0000	226.2764
Total	0.1318	1.2097	1.5510	2.6100e-003		0.0511	0.0511		0.0480	0.0480	0.0000	224.9214	224.9214	0.0542	0.0000	226.2764

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9800e-003	0.1212	0.0417	5.4000e-004	0.0186	7.3000e-004	0.0194	5.3800e-003	7.0000e-004	6.0800e-003	0.0000	53.2218	53.2218	1.8300e-003	7.7000e-003	55.5631
Worker	0.0162	9.9500e-003	0.1356	4.5000e-004	0.0573	2.7000e-004	0.0576	0.0152	2.5000e-004	0.0155	0.0000	42.6724	42.6724	1.0200e-003	1.0500e-003	43.0106
Total	0.0192	0.1311	0.1773	9.9000e-004	0.0760	1.0000e-003	0.0770	0.0206	9.5000e-004	0.0216	0.0000	95.8942	95.8942	2.8500e-003	8.7500e-003	98.5737

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0919	323.0919	0.0779	0.0000	325.0383
Total	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0919	323.0919	0.0779	0.0000	325.0383

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1900e-003	0.1722	0.0593	7.6000e-004	0.0268	1.0400e-003	0.0278	7.7300e-003	9.9000e-004	8.7200e-003	0.0000	74.8706	74.8706	2.6900e-003	0.0108	78.1664
Worker	0.0220	0.0131	0.1849	6.2000e-004	0.0824	3.7000e-004	0.0827	0.0219	3.4000e-004	0.0222	0.0000	59.9730	59.9730	1.3500e-003	1.4300e-003	60.4338
Total	0.0262	0.1853	0.2442	1.3800e-003	0.1091	1.4100e-003	0.1105	0.0296	1.3300e-003	0.0310	0.0000	134.8436	134.8436	4.0400e-003	0.0123	138.6002

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0915	323.0915	0.0779	0.0000	325.0379
Total	0.1893	1.7376	2.2279	3.7500e-003		0.0734	0.0734		0.0690	0.0690	0.0000	323.0915	323.0915	0.0779	0.0000	325.0379

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1900e-003	0.1722	0.0593	7.6000e-004	0.0268	1.0400e-003	0.0278	7.7300e-003	9.9000e-004	8.7200e-003	0.0000	74.8706	74.8706	2.6900e-003	0.0108	78.1664
Worker	0.0220	0.0131	0.1849	6.2000e-004	0.0824	3.7000e-004	0.0827	0.0219	3.4000e-004	0.0222	0.0000	59.9730	59.9730	1.3500e-003	1.4300e-003	60.4338
Total	0.0262	0.1853	0.2442	1.3800e-003	0.1091	1.4100e-003	0.1105	0.0296	1.3300e-003	0.0310	0.0000	134.8436	134.8436	4.0400e-003	0.0123	138.6002

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6865	0.0000	0.6865	0.3774	0.0000	0.3774	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0940	0.9589	0.6807	1.4500e-003		0.0413	0.0413		0.0380	0.0380	0.0000	127.1746	127.1746	0.0411	0.0000	128.2028
Total	0.0940	0.9589	0.6807	1.4500e-003	0.6865	0.0413	0.7278	0.3774	0.0380	0.4154	0.0000	127.1746	127.1746	0.0411	0.0000	128.2028

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	9.5000e-004	0.0130	4.0000e-005	5.4900e-003	3.0000e-005	5.5100e-003	1.4600e-003	2.0000e-005	1.4800e-003	0.0000	4.0825	4.0825	1.0000e-004	1.0000e-004	4.1149
Total	1.5500e-003	9.5000e-004	0.0130	4.0000e-005	5.4900e-003	3.0000e-005	5.5100e-003	1.4600e-003	2.0000e-005	1.4800e-003	0.0000	4.0825	4.0825	1.0000e-004	1.0000e-004	4.1149

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6865	0.0000	0.6865	0.3774	0.0000	0.3774	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0940	0.9589	0.6807	1.4500e-003		0.0413	0.0413		0.0380	0.0380	0.0000	127.1744	127.1744	0.0411	0.0000	128.2027
Total	0.0940	0.9589	0.6807	1.4500e-003	0.6865	0.0413	0.7278	0.3774	0.0380	0.4154	0.0000	127.1744	127.1744	0.0411	0.0000	128.2027

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	9.5000e-004	0.0130	4.0000e-005	5.4900e-003	3.0000e-005	5.5100e-003	1.4600e-003	2.0000e-005	1.4800e-003	0.0000	4.0825	4.0825	1.0000e-004	1.0000e-004	4.1149
Total	1.5500e-003	9.5000e-004	0.0130	4.0000e-005	5.4900e-003	3.0000e-005	5.5100e-003	1.4600e-003	2.0000e-005	1.4800e-003	0.0000	4.0825	4.0825	1.0000e-004	1.0000e-004	4.1149

3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1833	0.0000	1.1833	0.6505	0.0000	0.6505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1620	1.6528	1.1732	2.4900e-003		0.0712	0.0712		0.0655	0.0655	0.0000	219.2088	219.2088	0.0709	0.0000	220.9812
Total	0.1620	1.6528	1.1732	2.4900e-003	1.1833	0.0712	1.2545	0.6505	0.0655	0.7160	0.0000	219.2088	219.2088	0.0709	0.0000	220.9812

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5300e-003	1.5100e-003	0.0212	7.0000e-005	9.4500e-003	4.0000e-005	9.5000e-003	2.5100e-003	4.0000e-005	2.5500e-003	0.0000	6.8849	6.8849	1.6000e-004	1.6000e-004	6.9378
Total	2.5300e-003	1.5100e-003	0.0212	7.0000e-005	9.4500e-003	4.0000e-005	9.5000e-003	2.5100e-003	4.0000e-005	2.5500e-003	0.0000	6.8849	6.8849	1.6000e-004	1.6000e-004	6.9378

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1833	0.0000	1.1833	0.6505	0.0000	0.6505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1620	1.6528	1.1732	2.4900e-003		0.0712	0.0712		0.0655	0.0655	0.0000	219.2085	219.2085	0.0709	0.0000	220.9809
Total	0.1620	1.6528	1.1732	2.4900e-003	1.1833	0.0712	1.2545	0.6505	0.0655	0.7160	0.0000	219.2085	219.2085	0.0709	0.0000	220.9809

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5300e-003	1.5100e-003	0.0212	7.0000e-005	9.4500e-003	4.0000e-005	9.5000e-003	2.5100e-003	4.0000e-005	2.5500e-003	0.0000	6.8849	6.8849	1.6000e-004	1.6000e-004	6.9378
Total	2.5300e-003	1.5100e-003	0.0212	7.0000e-005	9.4500e-003	4.0000e-005	9.5000e-003	2.5100e-003	4.0000e-005	2.5500e-003	0.0000	6.8849	6.8849	1.6000e-004	1.6000e-004	6.9378

3.18 Phase 4 Demo - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0345	0.0000	0.0345	5.2300e-003	0.0000	5.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2400	0.2427	4.9000e-004		0.0107	0.0107		9.9000e-003	9.9000e-003	0.0000	42.4971	42.4971	0.0119	0.0000	42.7937
Total	0.0262	0.2400	0.2427	4.9000e-004	0.0345	0.0107	0.0452	5.2300e-003	9.9000e-003	0.0151	0.0000	42.4971	42.4971	0.0119	0.0000	42.7937

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.18 Phase 4 Demo - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0203	5.9900e-003	9.0000e-005	2.7000e-003	1.7000e-004	2.8700e-003	7.4000e-004	1.6000e-004	9.1000e-004	0.0000	8.7051	8.7051	5.3000e-004	1.3900e-003	9.1323
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.4000e-004	3.3800e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.0949	1.0949	2.0000e-005	3.0000e-005	1.1033
Total	7.3000e-004	0.0205	9.3700e-003	1.0000e-004	4.2000e-003	1.8000e-004	4.3800e-003	1.1400e-003	1.7000e-004	1.3200e-003	0.0000	9.8001	9.8001	5.5000e-004	1.4200e-003	10.2356

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0345	0.0000	0.0345	5.2300e-003	0.0000	5.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2400	0.2427	4.9000e-004		0.0107	0.0107		9.9000e-003	9.9000e-003	0.0000	42.4970	42.4970	0.0119	0.0000	42.7937
Total	0.0262	0.2400	0.2427	4.9000e-004	0.0345	0.0107	0.0452	5.2300e-003	9.9000e-003	0.0151	0.0000	42.4970	42.4970	0.0119	0.0000	42.7937

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.18 Phase 4 Demo - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-004	0.0203	5.9900e-003	9.0000e-005	2.7000e-003	1.7000e-004	2.8700e-003	7.4000e-004	1.6000e-004	9.1000e-004	0.0000	8.7051	8.7051	5.3000e-004	1.3900e-003	9.1323
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.4000e-004	3.3800e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.0949	1.0949	2.0000e-005	3.0000e-005	1.1033
Total	7.3000e-004	0.0205	9.3700e-003	1.0000e-004	4.2000e-003	1.8000e-004	4.3800e-003	1.1400e-003	1.7000e-004	1.3200e-003	0.0000	9.8001	9.8001	5.5000e-004	1.4200e-003	10.2356

3.19 Building E Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0888	0.0000	0.0888	0.0428	0.0000	0.0428	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3493	0.3291	7.8000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	68.1328	68.1328	0.0220	0.0000	68.6837
Total	0.0363	0.3493	0.3291	7.8000e-004	0.0888	0.0141	0.1029	0.0428	0.0130	0.0559	0.0000	68.1328	68.1328	0.0220	0.0000	68.6837

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.19 Building E Grading - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.2000e-004	4.5000e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4599	1.4599	3.0000e-005	3.0000e-005	1.4711
Total	5.4000e-004	3.2000e-004	4.5000e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4599	1.4599	3.0000e-005	3.0000e-005	1.4711

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0888	0.0000	0.0888	0.0428	0.0000	0.0428	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3493	0.3291	7.8000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	68.1327	68.1327	0.0220	0.0000	68.6836
Total	0.0363	0.3493	0.3291	7.8000e-004	0.0888	0.0141	0.1029	0.0428	0.0130	0.0559	0.0000	68.1327	68.1327	0.0220	0.0000	68.6836

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.19 Building E Grading - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	3.2000e-004	4.5000e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4599	1.4599	3.0000e-005	3.0000e-005	1.4711
Total	5.4000e-004	3.2000e-004	4.5000e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4599	1.4599	3.0000e-005	3.0000e-005	1.4711

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1127					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1100e-003	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6174	13.6174	7.4000e-004	0.0000	13.6359
Total	1.1218	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6174	13.6174	7.4000e-004	0.0000	13.6359

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9700e-003	1.1800e-003	0.0166	6.0000e-005	7.3800e-003	3.0000e-005	7.4100e-003	1.9600e-003	3.0000e-005	1.9900e-003	0.0000	5.3725	5.3725	1.2000e-004	1.3000e-004	5.4137
Total	1.9700e-003	1.1800e-003	0.0166	6.0000e-005	7.3800e-003	3.0000e-005	7.4100e-003	1.9600e-003	3.0000e-005	1.9900e-003	0.0000	5.3725	5.3725	1.2000e-004	1.3000e-004	5.4137

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1127					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1100e-003	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6173	13.6173	7.4000e-004	0.0000	13.6359
Total	1.1218	0.0611	0.0965	1.6000e-004		2.7500e-003	2.7500e-003		2.7500e-003	2.7500e-003	0.0000	13.6173	13.6173	7.4000e-004	0.0000	13.6359

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.20 Phase 3 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9700e-003	1.1800e-003	0.0166	6.0000e-005	7.3800e-003	3.0000e-005	7.4100e-003	1.9600e-003	3.0000e-005	1.9900e-003	0.0000	5.3725	5.3725	1.2000e-004	1.3000e-004	5.4137
Total	1.9700e-003	1.1800e-003	0.0166	6.0000e-005	7.3800e-003	3.0000e-005	7.4100e-003	1.9600e-003	3.0000e-005	1.9900e-003	0.0000	5.3725	5.3725	1.2000e-004	1.3000e-004	5.4137

3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7925					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8091	22.8091	1.2400e-003	0.0000	22.8402
Total	0.8077	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8091	22.8091	1.2400e-003	0.0000	22.8402

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-003	1.3700e-003	0.0193	7.0000e-005	8.6000e-003	4.0000e-005	8.6400e-003	2.2800e-003	4.0000e-005	2.3200e-003	0.0000	6.2601	6.2601	1.4000e-004	1.5000e-004	6.3082
Total	2.3000e-003	1.3700e-003	0.0193	7.0000e-005	8.6000e-003	4.0000e-005	8.6400e-003	2.2800e-003	4.0000e-005	2.3200e-003	0.0000	6.2601	6.2601	1.4000e-004	1.5000e-004	6.3082

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7925					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0153	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8090	22.8090	1.2400e-003	0.0000	22.8401
Total	0.8077	0.1023	0.1616	2.7000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	22.8090	22.8090	1.2400e-003	0.0000	22.8401

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.21 Phase 4 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-003	1.3700e-003	0.0193	7.0000e-005	8.6000e-003	4.0000e-005	8.6400e-003	2.2800e-003	4.0000e-005	2.3200e-003	0.0000	6.2601	6.2601	1.4000e-004	1.5000e-004	6.3082
Total	2.3000e-003	1.3700e-003	0.0193	7.0000e-005	8.6000e-003	4.0000e-005	8.6400e-003	2.2800e-003	4.0000e-005	2.3200e-003	0.0000	6.2601	6.2601	1.4000e-004	1.5000e-004	6.3082

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.3386	2.3480	21.7047	0.0456	5.7557	0.0318	5.7875	1.5359	0.0296	1.5656	0.0000	4,460.9174	4,460.9174	0.3111	0.1959	4,527.0776
Unmitigated	2.3386	2.3480	21.7047	0.0456	5.7557	0.0318	5.7875	1.5359	0.0296	1.5656	0.0000	4,460.9174	4,460.9174	0.3111	0.1959	4,527.0776

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking Structure	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Research & Development	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707
Total	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking Structure	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
Parking Lot	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Research & Development	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,349.1325	3,349.1325	0.2047	0.0248	3,361.6426
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,349.1325	3,349.1325	0.2047	0.0248	3,361.6426
NaturalGas Mitigated	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270
NaturalGas Unmitigated	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	1.1513e+007	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270
Total		0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	1.1513e+007	0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270
Total		0.0621	0.5644	0.4741	3.3900e-003		0.0429	0.0429		0.0429	0.0429	0.0000	614.3761	614.3761	0.0118	0.0113	618.0270

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking Structure	5.4831e+006	1,342.9801	0.0821	9.9500e-003	1,347.9966
Parking Lot	15680	3.8405	2.3000e-004	3.0000e-005	3.8549
Research & Development	8.17501e+006	2,002.3119	0.1224	0.0148	2,009.7911
Total		3,349.1325	0.2047	0.0248	3,361.6426

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking Structure	5.4831e+006	1,342.9801	0.0821	9.9500e-003	1,347.9966
Parking Lot	15680	3.8405	2.3000e-004	3.0000e-005	3.8549
Research & Development	8.17501e+006	2,002.3119	0.1224	0.0148	2,009.7911
Total		3,349.1325	0.2047	0.0248	3,361.6426

6.0 Area Detail

6.1 Mitigation Measures Area

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Unmitigated	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.1959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1400e-003	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Total	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.1959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1400e-003	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708
Total	5.1726	3.1000e-004	0.0341	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0665	0.0665	1.7000e-004	0.0000	0.0708

7.0 Water Detail

7.1 Mitigation Measures Water

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,378.4577	12.8863	0.3118	1,793.5167
Unmitigated	1,378.4577	12.8863	0.3118	1,793.5167

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	393.115 / 0	1,378.4577	12.8863	0.3118	1,793.5167
Total		1,378.4577	12.8863	0.3118	1,793.5167

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	393.115 / 0	1,378.457 7	12.8863	0.3118	1,793.516 7
Total		1,378.457 7	12.8863	0.3118	1,793.516 7

8.0 Waste Detail

8.1 Mitigation Measures Waste

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.4172	0.9111	0.0000	38.1954
Unmitigated	15.4172	0.9111	0.0000	38.1954

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	75.95	15.4172	0.9111	0.0000	38.1954
Total		15.4172	0.9111	0.0000	38.1954

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Research & Development	75.95	15.4172	0.9111	0.0000	38.1954
Total		15.4172	0.9111	0.0000	38.1954

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	0.5	100	2346	0.73	Diesel
Emergency Generator	2	0.5	100	2923	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	2	150	27000	15	CNG

Towne Centre View - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Boiler	3	150	27000	16	CNG
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User Defined Equipment

Equipment Type	Number
----------------	--------

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (5 - 75 MMBTU)	0.3640	0.7425	6.4854	0.0397		0.5030	0.5030		0.5030	0.5030	0.0000	7,204.2372	7,204.2372	0.1381	0.0000	7,207.6892
Emergency Generator - Diesel (750 - 9999 HP)	1.2497	5.5885	3.1864	6.0100e-003		0.1838	0.1838		0.1838	0.1838	0.0000	579.9541	579.9541	0.0813	0.0000	581.9869
Total	1.6137	6.3310	9.6718	0.0457		0.6868	0.6868		0.6868	0.6868	0.0000	7,784.1913	7,784.1913	0.2194	0.0000	7,789.6761

11.0 Vegetation

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Towne Centre View

San Diego County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	999.39	1000sqft	24.49	999,390.00	0
Enclosed Parking Structure	2,611.00	Space	0.00	1,044,400.00	0
Parking Lot	112.00	Space	1.01	44,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2028
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	539.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on Site Plan, aall parking gragaes will be below ground

Construction Phase - based on project engineer input

Off-road Equipment - 8-hours days, project engineer inputs

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Off-road Equipment - 8-hours days, project engineer inputs

Trips and VMT - Building Constructon/Architectural Coatings trips based on square footage being built in each pahse per CalEEMod User Manual Appendix A.

Grading - based on site acerage

Vehicle Trips - per TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Water And Wastewater - 20% reduction over year 2000 survey per CalGreen

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	53.00
tblConstructionPhase	NumDays	35.00	79.00
tblConstructionPhase	NumDays	35.00	129.00
tblConstructionPhase	NumDays	35.00	121.00
tblConstructionPhase	NumDays	440.00	548.00
tblConstructionPhase	NumDays	440.00	428.00

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	440.00	550.00
tblConstructionPhase	NumDays	440.00	354.00
tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	30.00	76.00
tblConstructionPhase	NumDays	45.00	61.00
tblConstructionPhase	NumDays	45.00	10.00
tblConstructionPhase	NumDays	45.00	25.00
tblConstructionPhase	NumDays	45.00	100.00
tblConstructionPhase	NumDays	45.00	30.00
tblConstructionPhase	NumDays	35.00	212.00
tblConstructionPhase	NumDays	35.00	181.00
tblConstructionPhase	NumDays	20.00	202.00
tblConstructionPhase	NumDays	20.00	226.00
tblGrading	AcresOfGrading	183.00	25.50
tblGrading	AcresOfGrading	30.00	25.50
tblGrading	AcresOfGrading	75.00	25.50
tblGrading	AcresOfGrading	400.00	25.50
tblGrading	AcresOfGrading	90.00	25.50
tblGrading	AcresOfGrading	303.00	0.00
tblGrading	AcresOfGrading	452.00	0.00
tblGrading	MaterialExported	0.00	118,876.00
tblGrading	MaterialExported	0.00	16,159.00
tblGrading	MaterialExported	0.00	146,600.00
tblGrading	MaterialExported	0.00	15,406.00
tblGrading	MaterialImported	0.00	1,727.00
tblGrading	MaterialImported	0.00	6,174.00
tblLandUse	LotAcreage	22.94	24.49
tblLandUse	LotAcreage	23.50	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	342.00	44.00
tblTripsAndVMT	VendorTripNumber	342.00	31.00
tblTripsAndVMT	VendorTripNumber	342.00	42.00
tblTripsAndVMT	VendorTripNumber	342.00	46.00
tblTripsAndVMT	WorkerTripNumber	777.00	114.00
tblTripsAndVMT	WorkerTripNumber	155.00	24.00
tblTripsAndVMT	WorkerTripNumber	777.00	79.00
tblTripsAndVMT	WorkerTripNumber	155.00	23.00
tblTripsAndVMT	WorkerTripNumber	155.00	16.00
tblTripsAndVMT	WorkerTripNumber	777.00	107.00
tblTripsAndVMT	WorkerTripNumber	18.00	15.00
tblTripsAndVMT	WorkerTripNumber	155.00	21.00
tblTripsAndVMT	WorkerTripNumber	777.00	118.00
tblVehicleTrips	WD_TR	11.26	8.00
tblWater	IndoorWaterUseRate	491,394,013.90	393,115,211.10

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.8023	83.5033	46.4119	0.2052	9.9902	2.4532	12.4433	4.3252	2.2793	6.6045	0.0000	21,412.55 36	21,412.55 36	3.1594	2.0406	22,099.62 79
2023	9.3789	91.5907	78.7383	0.1723	29.5725	4.1241	33.6966	14.2907	3.8202	18.1109	0.0000	16,909.47 32	16,909.47 32	4.1746	0.3372	17,114.33 95
2024	28.4685	94.9863	74.2374	0.2112	34.3340	3.6756	38.0096	17.5385	3.4048	20.9433	0.0000	21,293.65 74	21,293.65 74	4.3587	1.0902	21,727.51 30
2025	46.7219	74.6002	56.0651	0.2489	12.4453	1.9842	14.4296	4.9579	1.8468	6.8047	0.0000	26,207.34 76	26,207.34 76	3.5218	2.6334	27,080.13 55
2026	46.6851	77.3563	72.3633	0.2450	20.4308	2.6628	23.0936	10.5694	2.4723	13.0417	0.0000	25,490.18 47	25,490.18 47	4.1084	2.1620	26,237.18 02
2027	46.1061	105.6027	106.9936	0.2388	30.8717	4.3113	35.1830	14.5690	4.0023	18.5713	0.0000	23,417.33 23	23,417.33 23	5.6632	0.3832	23,673.09 93
Maximum	46.7219	105.6027	106.9936	0.2489	34.3340	4.3113	38.0096	17.5385	4.0023	20.9433	0.0000	26,207.34 76	26,207.34 76	5.6632	2.6334	27,080.13 55

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Energy	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Mobile	17.5797	15.6903	153.3589	0.3393	42.1730	0.2275	42.4006	11.2326	0.2123	11.4449		36,565.7741	36,565.7741	2.3696	1.4844	37,067.3645
Stationary	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890
Total	62.8213	82.9209	260.2596	0.8591	42.1730	7.8905	50.0636	11.2326	7.8753	19.1079		134,907.1601	134,907.1601	5.0304	1.5524	135,495.5425

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Energy	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Mobile	17.5797	15.6903	153.3589	0.3393	42.1730	0.2275	42.4006	11.2326	0.2123	11.4449		36,565.7741	36,565.7741	2.3696	1.4844	37,067.3645
Stationary	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890
Total	62.8213	82.9209	260.2596	0.8591	42.1730	7.8905	50.0636	11.2326	7.8753	19.1079		134,907.1601	134,907.1601	5.0304	1.5524	135,495.5425

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 Utilities	Trenching	4/4/2022	12/19/2022	5	181	
2	Phase 1 Grading	Grading	5/14/2022	10/5/2022	5	100	
3	Phase 1 Building Construction	Building Construction	10/6/2022	12/5/2024	5	550	
4	Phase 1 Paving	Paving	4/28/2023	1/16/2024	5	181	

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Demo Existing	Demolition	8/31/2023	12/19/2023	5	76
6	Phase 1 Site Preparation	Site Preparation	12/18/2023	11/4/2024	5	226
7	Phase 1 Architectural Coating	Architectural Coating	5/15/2024	11/4/2024	5	121
8	Phase 2 Grading	Grading	7/8/2024	8/16/2024	5	30
9	Phase 2 Building Construction	Building Construction	8/17/2024	1/12/2026	5	354
10	Phase 3 Grading	Grading	2/11/2025	5/6/2025	5	61
11	Phase 3 Building Construction	Building Construction	5/7/2025	7/2/2027	5	548
12	Phase 2 Architectural Coating	Architectural Coating	10/24/2025	1/12/2026	5	53
13	Phase 3 Paving	Paving	2/23/2026	12/14/2026	5	212
14	Phase 4 Grading	Grading	4/9/2026	4/22/2026	5	10
15	Phase 4 Building Construction	Building Construction	4/23/2026	12/30/2027	5	428
16	Phase 3 Site Preparation	Site Preparation	9/17/2026	7/2/2027	5	202
17	Phase 4 Demo	Demolition	2/16/2027	3/22/2027	5	25
18	Building E Grading	Grading	2/16/2027	3/22/2027	5	25
19	Phase 3 Architectural Coating	Architectural Coating	3/15/2027	7/2/2027	5	79
20	Phase 4 Architectural Coating	Architectural Coating	6/26/2027	12/30/2027	5	129

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 25.5

Acres of Paving: 1.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 381,537; Non-Residential Outdoor: 63,590; Striped Parking Area: 65,352 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Utilities	Aerial Lifts	2	8.00	63	0.31
Phase 1 Utilities	Excavators	1	8.00	158	0.38
Phase 1 Utilities	Generator Sets	1	8.00	84	0.74
Phase 1 Grading	Crawler Tractors	2	8.00	212	0.43

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 1 Grading	Excavators	2	8.00	158	0.38
Phase 1 Grading	Graders	1	8.00	187	0.41
Phase 1 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1 Grading	Scrapers	2	8.00	367	0.48
Phase 1 Building Construction	Cranes	1	8.00	231	0.29
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Building Construction	Welders	1	8.00	46	0.45
Phase 1 Paving	Pavers	2	8.00	130	0.42
Phase 1 Paving	Paving Equipment	2	8.00	132	0.36
Phase 1 Paving	Rollers	2	8.00	80	0.38
Demo Existing	Concrete/Industrial Saws	1	8.00	81	0.73
Demo Existing	Excavators	3	8.00	158	0.38
Demo Existing	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1 Site Preparation	Rubber Tired Dozers	4	8.00	247	0.40
Phase 1 Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 2 Grading	Excavators	2	8.00	158	0.38
Phase 2 Grading	Graders	1	8.00	187	0.41
Phase 2 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2 Grading	Scrapers	2	8.00	367	0.48
Phase 2 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2 Building Construction	Cranes	1	8.00	231	0.29
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Grading	Excavators	2	8.00	158	0.38

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 3 Grading	Graders	1	8.00	187	0.41
Phase 3 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 3 Grading	Scrapers	2	8.00	367	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Building Construction	Cranes	1	8.00	231	0.29
Phase 3 Building Construction	Forklifts	3	8.00	89	0.20
Phase 3 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 3 Building Construction	Welders	1	8.00	46	0.45
Phase 2 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 3 Paving	Pavers	2	8.00	130	0.42
Phase 3 Paving	Paving Equipment	2	8.00	132	0.36
Phase 3 Paving	Rollers	2	8.00	80	0.38
Phase 4 Grading	Excavators	2	8.00	158	0.38
Phase 4 Grading	Graders	1	8.00	187	0.41
Phase 4 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 4 Grading	Scrapers	2	8.00	367	0.48
Phase 4 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 4 Building Construction	Cranes	1	8.00	231	0.29
Phase 4 Building Construction	Forklifts	3	8.00	89	0.20
Phase 4 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 4 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 4 Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 4 Demo	Excavators	3	8.00	158	0.38
Phase 4 Demo	Rubber Tired Dozers	2	8.00	247	0.40
Building E Grading	Excavators	2	8.00	158	0.38

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building E Grading	Graders	1	8.00	187	0.41
Building E Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building E Grading	Scrapers	2	8.00	367	0.48
Building E Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 4 Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Utilities	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Grading	8	20.00	0.00	18,541.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Building Construction	9	107.00	42.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demo Existing	7	15.00	0.00	1,261.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Grading	8	20.00	0.00	2,698.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	9	118.00	46.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	8	20.00	0.00	14,860.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Building Construction	9	114.00	44.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Architectural Coating	1	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Grading	8	20.00	0.00	2,020.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Building Construction	9	79.00	31.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Demo	6	15.00	0.00	315.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building E Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 3 Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Phase 1 Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451		1,448.2895	1,448.2895	0.2965		1,455.7022
Total	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451		1,448.2895	1,448.2895	0.2965		1,455.7022

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 1 Utilities - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0292	0.0190	0.2593	7.5000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		76.2605	76.2605	2.1900e-003	1.9700e-003	76.9011
Total	0.0292	0.0190	0.2593	7.5000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		76.2605	76.2605	2.1900e-003	1.9700e-003	76.9011

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451	0.0000	1,448.2895	1,448.2895	0.2965		1,455.7022
Total	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451	0.0000	1,448.2895	1,448.2895	0.2965		1,455.7022

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 1 Utilities - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0292	0.0190	0.2593	7.5000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		76.2605	76.2605	2.1900e-003	1.9700e-003	76.9011
Total	0.0292	0.0190	0.2593	7.5000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		76.2605	76.2605	2.1900e-003	1.9700e-003	76.9011

3.3 Phase 1 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5009	0.0000	6.5009	3.3710	0.0000	3.3710			0.0000			0.0000
Off-Road	4.2792	47.5079	29.1953	0.0715		1.9081	1.9081		1.7554	1.7554		6,926.9974	6,926.9974	2.2403		6,983.0056
Total	4.2792	47.5079	29.1953	0.0715	6.5009	1.9081	8.4090	3.3710	1.7554	5.1264		6,926.9974	6,926.9974	2.2403		6,983.0056

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 1 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8309	30.1126	7.3197	0.1164	3.2428	0.2901	3.5329	0.8889	0.2775	1.1664		12,808.4854	12,808.4854	0.6160	2.0347	13,430.2169
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0584	0.0380	0.5186	1.5000e-003	0.1643	9.3000e-004	0.1652	0.0436	8.6000e-004	0.0444		152.5209	152.5209	4.3800e-003	3.9300e-003	153.8022
Total	0.8893	30.1506	7.8383	0.1179	3.4071	0.2910	3.6981	0.9324	0.2784	1.2108		12,961.0063	12,961.0063	0.6204	2.0386	13,584.0191

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5009	0.0000	6.5009	3.3710	0.0000	3.3710			0.0000			0.0000
Off-Road	4.2792	47.5079	29.1953	0.0715		1.9081	1.9081		1.7554	1.7554	0.0000	6,926.9974	6,926.9974	2.2403		6,983.0056
Total	4.2792	47.5079	29.1953	0.0715	6.5009	1.9081	8.4090	3.3710	1.7554	5.1264	0.0000	6,926.9974	6,926.9974	2.2403		6,983.0056

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 1 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8309	30.1126	7.3197	0.1164	3.2428	0.2901	3.5329	0.8889	0.2775	1.1664		12,808.4854	12,808.4854	0.6160	2.0347	13,430.2169
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0584	0.0380	0.5186	1.5000e-003	0.1643	9.3000e-004	0.1652	0.0436	8.6000e-004	0.0444		152.5209	152.5209	4.3800e-003	3.9300e-003	153.8022
Total	0.8893	30.1506	7.8383	0.1179	3.4071	0.2910	3.6981	0.9324	0.2784	1.2108		12,961.0063	12,961.0063	0.6204	2.0386	13,584.0191

3.4 Phase 1 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0936	2.2336	0.7472	8.9600e-003	0.2845	0.0243	0.3087	0.0819	0.0232	0.1051		965.2676	965.2676	0.0294	0.1401	1,007.7539
Worker	0.3124	0.2034	2.7744	8.0200e-003	0.8790	4.9800e-003	0.8840	0.2332	4.5800e-003	0.2377		815.9869	815.9869	0.0234	0.0210	822.8415
Total	0.4060	2.4369	3.5216	0.0170	1.1634	0.0293	1.1927	0.3150	0.0278	0.3429		1,781.2545	1,781.2545	0.0528	0.1612	1,830.5954

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0936	2.2336	0.7472	8.9600e-003	0.2845	0.0243	0.3087	0.0819	0.0232	0.1051		965.2676	965.2676	0.0294	0.1401	1,007.7539
Worker	0.3124	0.2034	2.7744	8.0200e-003	0.8790	4.9800e-003	0.8840	0.2332	4.5800e-003	0.2377		815.9869	815.9869	0.0234	0.0210	822.8415
Total	0.4060	2.4369	3.5216	0.0170	1.1634	0.0293	1.1927	0.3150	0.0278	0.3429		1,781.2545	1,781.2545	0.0528	0.1612	1,830.5954

3.4 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029		2,738.1535	2,738.1535	0.6670		2,754.8288
Total	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029		2,738.1535	2,738.1535	0.6670		2,754.8288

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.8005	0.6488	8.6000e-003	0.2845	0.0110	0.2954	0.0819	0.0105	0.0924		928.3972	928.3972	0.0281	0.1344	969.1592
Worker	0.2926	0.1817	2.5748	7.7700e-003	0.8790	4.7300e-003	0.8837	0.2332	4.3500e-003	0.2375		794.8533	794.8533	0.0213	0.0196	801.2168
Total	0.3428	1.9822	3.2237	0.0164	1.1634	0.0157	1.1791	0.3150	0.0148	0.3299		1,723.2505	1,723.2505	0.0494	0.1540	1,770.3761

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029	0.0000	2,738.1535	2,738.1535	0.6670		2,754.8288
Total	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029	0.0000	2,738.1535	2,738.1535	0.6670		2,754.8288

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.8005	0.6488	8.6000e-003	0.2845	0.0110	0.2954	0.0819	0.0105	0.0924		928.3972	928.3972	0.0281	0.1344	969.1592
Worker	0.2926	0.1817	2.5748	7.7700e-003	0.8790	4.7300e-003	0.8837	0.2332	4.3500e-003	0.2375		794.8533	794.8533	0.0213	0.0196	801.2168
Total	0.3428	1.9822	3.2237	0.0164	1.1634	0.0157	1.1791	0.3150	0.0148	0.3299		1,723.2505	1,723.2505	0.0494	0.1540	1,770.3761

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0483	1.7882	0.6337	8.4400e-003	0.2845	0.0110	0.2955	0.0819	0.0105	0.0924		912.2109	912.2109	0.0288	0.1321	952.2883
Worker	0.2748	0.1635	2.4062	7.5100e-003	0.8790	4.5100e-003	0.8835	0.2332	4.1500e-003	0.2373		774.8488	774.8488	0.0194	0.0183	780.7827
Total	0.3232	1.9516	3.0398	0.0160	1.1634	0.0155	1.1790	0.3150	0.0147	0.3297		1,687.0597	1,687.0597	0.0482	0.1504	1,733.0710

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0483	1.7882	0.6337	8.4400e-003	0.2845	0.0110	0.2955	0.0819	0.0105	0.0924		912.2109	912.2109	0.0288	0.1321	952.2883
Worker	0.2748	0.1635	2.4062	7.5100e-003	0.8790	4.5100e-003	0.8835	0.2332	4.1500e-003	0.2373		774.8488	774.8488	0.0194	0.0183	780.7827
Total	0.3232	1.9516	3.0398	0.0160	1.1634	0.0155	1.1790	0.3150	0.0147	0.3297		1,687.0597	1,687.0597	0.0482	0.1504	1,733.0710

3.5 Phase 1 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0474	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201
Total	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0474	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201
Total	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201

3.5 Phase 1 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0028	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0385	0.0229	0.3373	1.0500e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		108.6237	108.6237	2.7100e-003	2.5600e-003	109.4555
Total	0.0385	0.0229	0.3373	1.0500e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		108.6237	108.6237	2.7100e-003	2.5600e-003	109.4555

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0028	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0385	0.0229	0.3373	1.0500e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		108.6237	108.6237	2.7100e-003	2.5600e-003	109.4555
Total	0.0385	0.0229	0.3373	1.0500e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		108.6237	108.6237	2.7100e-003	2.5600e-003	109.4555

3.6 Demo Existing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6362	0.0000	3.6362	0.5507	0.0000	0.5507			0.0000			0.0000
Off-Road	2.9538	28.6116	22.7497	0.0474		1.3185	1.3185		1.2232	1.2232		4,573.9847	4,573.9847	1.3168		4,606.9057
Total	2.9538	28.6116	22.7497	0.0474	3.6362	1.3185	4.9547	0.5507	1.2232	1.7739		4,573.9847	4,573.9847	1.3168		4,606.9057

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Demo Existing - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0376	2.1705	0.5962	9.9300e-003	0.2902	0.0184	0.3086	0.0795	0.0176	0.0972		1,097.1983	1,097.1983	0.0553	0.1745	1,150.5766
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201
Total	0.0786	2.1960	0.9572	0.0110	0.4134	0.0191	0.4325	0.1122	0.0182	0.1305		1,208.6264	1,208.6264	0.0583	0.1772	1,262.8967

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6362	0.0000	3.6362	0.5507	0.0000	0.5507			0.0000			0.0000
Off-Road	2.9538	28.6116	22.7497	0.0474		1.3185	1.3185		1.2232	1.2232	0.0000	4,573.9847	4,573.9847	1.3168		4,606.9057
Total	2.9538	28.6116	22.7497	0.0474	3.6362	1.3185	4.9547	0.5507	1.2232	1.7739	0.0000	4,573.9847	4,573.9847	1.3168		4,606.9057

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Demo Existing - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0376	2.1705	0.5962	9.9300e-003	0.2902	0.0184	0.3086	0.0795	0.0176	0.0972		1,097.1983	1,097.1983	0.0553	0.1745	1,150.5766
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0410	0.0255	0.3610	1.0900e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		111.4280	111.4280	2.9800e-003	2.7400e-003	112.3201
Total	0.0786	2.1960	0.9572	0.0110	0.4134	0.0191	0.4325	0.1122	0.0182	0.1305		1,208.6264	1,208.6264	0.0583	0.1772	1,262.8967

3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.1928	33.1156	19.1194	0.0435		1.5111	1.5111		1.3902	1.3902		4,212.7323	4,212.7323	1.3625		4,246.7944
Total	3.1928	33.1156	19.1194	0.0435	24.0883	1.5111	25.5995	13.2409	1.3902	14.6312		4,212.7323	4,212.7323	1.3625		4,246.7944

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		133.7136	133.7136	3.5800e-003	3.2900e-003	134.7841
Total	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		133.7136	133.7136	3.5800e-003	3.2900e-003	134.7841

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.1928	33.1156	19.1194	0.0435		1.5111	1.5111		1.3902	1.3902	0.0000	4,212.7323	4,212.7323	1.3625		4,246.7944
Total	3.1928	33.1156	19.1194	0.0435	24.0883	1.5111	25.5995	13.2409	1.3902	14.6312	0.0000	4,212.7323	4,212.7323	1.3625		4,246.7944

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		133.7136	133.7136	3.5800e-003	3.2900e-003	134.7841
Total	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		133.7136	133.7136	3.5800e-003	3.2900e-003	134.7841

3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.2120	32.8554	19.2311	0.0435		1.4841	1.4841		1.3653	1.3653		4,213.224 2	4,213.224 2	1.3626		4,247.290 3
Total	3.2120	32.8554	19.2311	0.0435	24.0883	1.4841	25.5724	13.2409	1.3653	14.6062		4,213.224 2	4,213.224 2	1.3626		4,247.290 3

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0462	0.0275	0.4048	1.2600e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		130.3484	130.3484	3.2600e-003	3.0800e-003	131.3466
Total	0.0462	0.0275	0.4048	1.2600e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		130.3484	130.3484	3.2600e-003	3.0800e-003	131.3466

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.2120	32.8554	19.2311	0.0435		1.4841	1.4841		1.3653	1.3653	0.0000	4,213.224 2	4,213.224 2	1.3626		4,247.290 3
Total	3.2120	32.8554	19.2311	0.0435	24.0883	1.4841	25.5724	13.2409	1.3653	14.6062	0.0000	4,213.224 2	4,213.224 2	1.3626		4,247.290 3

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0462	0.0275	0.4048	1.2600e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		130.3484	130.3484	3.2600e-003	3.0800e-003	131.3466
Total	0.0462	0.0275	0.4048	1.2600e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		130.3484	130.3484	3.2600e-003	3.0800e-003	131.3466

3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.5543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	19.7953	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0539	0.0321	0.4722	1.4700e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		152.0731	152.0731	3.8000e-003	3.5900e-003	153.2377
Total	0.0539	0.0321	0.4722	1.4700e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		152.0731	152.0731	3.8000e-003	3.5900e-003	153.2377

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.5543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	19.7953	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Phase 1 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0539	0.0321	0.4722	1.4700e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		152.0731	152.0731	3.8000e-003	3.5900e-003	153.2377
Total	0.0539	0.0321	0.4722	1.4700e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		152.0731	152.0731	3.8000e-003	3.5900e-003	153.2377

3.9 Phase 2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0246	0.0000	7.0246	3.4229	0.0000	3.4229			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	7.0246	1.3354	8.3600	3.4229	1.2286	4.6514		6,009.7487	6,009.7487	1.9437		6,058.3405

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Phase 2 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2013	11.6622	3.2764	0.0527	1.5730	0.1004	1.6734	0.4312	0.0961	0.5273		5,842.3953	5,842.3953	0.3089	0.9298	6,127.1929
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0514	0.0306	0.4498	1.4000e-003	0.1643	8.4000e-004	0.1651	0.0436	7.8000e-004	0.0444		144.8316	144.8316	3.6200e-003	3.4200e-003	145.9407
Total	0.2526	11.6928	3.7262	0.0541	1.7373	0.1013	1.8386	0.4747	0.0969	0.5716		5,987.2268	5,987.2268	0.3125	0.9332	6,273.1336

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0246	0.0000	7.0246	3.4229	0.0000	3.4229			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	7.0246	1.3354	8.3600	3.4229	1.2286	4.6514	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Phase 2 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2013	11.6622	3.2764	0.0527	1.5730	0.1004	1.6734	0.4312	0.0961	0.5273		5,842.3953	5,842.3953	0.3089	0.9298	6,127.1929
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0514	0.0306	0.4498	1.4000e-003	0.1643	8.4000e-004	0.1651	0.0436	7.8000e-004	0.0444		144.8316	144.8316	3.6200e-003	3.4200e-003	145.9407
Total	0.2526	11.6928	3.7262	0.0541	1.7373	0.1013	1.8386	0.4747	0.0969	0.5716		5,987.2268	5,987.2268	0.3125	0.9332	6,273.1336

3.10 Phase 2 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0529	1.9585	0.6940	9.2400e-003	0.3116	0.0121	0.3236	0.0897	0.0116	0.1012		999.0881	999.0881	0.0315	0.1447	1,042.9824
Worker	0.3031	0.1803	2.6535	8.2800e-003	0.9693	4.9700e-003	0.9743	0.2571	4.5800e-003	0.2617		854.5062	854.5062	0.0214	0.0202	861.0501
Total	0.3560	2.1387	3.3475	0.0175	1.2809	0.0170	1.2979	0.3468	0.0161	0.3629		1,853.5943	1,853.5943	0.0529	0.1648	1,904.0325

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0529	1.9585	0.6940	9.2400e-003	0.3116	0.0121	0.3236	0.0897	0.0116	0.1012		999.0881	999.0881	0.0315	0.1447	1,042.9824
Worker	0.3031	0.1803	2.6535	8.2800e-003	0.9693	4.9700e-003	0.9743	0.2571	4.5800e-003	0.2617		854.5062	854.5062	0.0214	0.0202	861.0501
Total	0.3560	2.1387	3.3475	0.0175	1.2809	0.0170	1.2979	0.3468	0.0161	0.3629		1,853.5943	1,853.5943	0.0529	0.1648	1,904.0325

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0513	1.9392	0.6824	9.0500e-003	0.3116	0.0120	0.3236	0.0897	0.0115	0.1012		980.0292	980.0292	0.0323	0.1418	1,023.0998
Worker	0.2856	0.1633	2.4893	8.0000e-003	0.9693	4.7600e-003	0.9741	0.2571	4.3800e-003	0.2615		833.5570	833.5570	0.0195	0.0189	839.6852
Total	0.3369	2.1025	3.1716	0.0171	1.2809	0.0168	1.2977	0.3468	0.0159	0.3627		1,813.5862	1,813.5862	0.0518	0.1608	1,862.7850

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0513	1.9392	0.6824	9.0500e-003	0.3116	0.0120	0.3236	0.0897	0.0115	0.1012		980.0292	980.0292	0.0323	0.1418	1,023.0998
Worker	0.2856	0.1633	2.4893	8.0000e-003	0.9693	4.7600e-003	0.9741	0.2571	4.3800e-003	0.2615		833.5570	833.5570	0.0195	0.0189	839.6852
Total	0.3369	2.1025	3.1716	0.0171	1.2809	0.0168	1.2977	0.3468	0.0159	0.3627		1,813.5862	1,813.5862	0.0518	0.1608	1,862.7850

3.10 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0499	1.9184	0.6740	8.8700e-003	0.3116	0.0119	0.3235	0.0897	0.0114	0.1011		961.3066	961.3066	0.0331	0.1391	1,003.5724
Worker	0.2699	0.1491	2.3490	7.7500e-003	0.9693	4.5300e-003	0.9739	0.2571	4.1700e-003	0.2613		814.0713	814.0713	0.0178	0.0179	819.8498
Total	0.3198	2.0674	3.0230	0.0166	1.2809	0.0165	1.2974	0.3468	0.0156	0.3624		1,775.3778	1,775.3778	0.0509	0.1570	1,823.4223

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0499	1.9184	0.6740	8.8700e-003	0.3116	0.0119	0.3235	0.0897	0.0114	0.1011		961.3066	961.3066	0.0331	0.1391	1,003.5724
Worker	0.2699	0.1491	2.3490	7.7500e-003	0.9693	4.5300e-003	0.9739	0.2571	4.1700e-003	0.2613		814.0713	814.0713	0.0178	0.0179	819.8498
Total	0.3198	2.0674	3.0230	0.0166	1.2809	0.0165	1.2974	0.3468	0.0156	0.3624		1,775.3778	1,775.3778	0.0509	0.1570	1,823.4223

3.11 Phase 3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7393	0.0000	6.7393	3.3996	0.0000	3.3996			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.7393	1.1309	7.8701	3.3996	1.0404	4.4400		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 Phase 3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5389	31.1608	9.0026	0.1395	4.2609	0.2711	4.5320	1.1679	0.2593	1.4273		15,504.6005	15,504.6005	0.8633	2.4694	16,262.0666
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0484	0.0277	0.4219	1.3600e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		141.2809	141.2809	3.3000e-003	3.2100e-003	142.3195
Total	0.5873	31.1885	9.4245	0.1409	4.4252	0.2719	4.6971	1.2115	0.2601	1.4716		15,645.8813	15,645.8813	0.8666	2.4726	16,404.3861

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7393	0.0000	6.7393	3.3996	0.0000	3.3996			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.7393	1.1309	7.8701	3.3996	1.0404	4.4400	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 Phase 3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5389	31.1608	9.0026	0.1395	4.2609	0.2711	4.5320	1.1679	0.2593	1.4273		15,504.6005	15,504.6005	0.8633	2.4694	16,262.0666
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0484	0.0277	0.4219	1.3600e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		141.2809	141.2809	3.3000e-003	3.2100e-003	142.3195
Total	0.5873	31.1885	9.4245	0.1409	4.4252	0.2719	4.6971	1.2115	0.2601	1.4716		15,645.8813	15,645.8813	0.8666	2.4726	16,404.3861

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0491	1.8549	0.6527	8.6600e-003	0.2980	0.0115	0.3095	0.0858	0.0110	0.0968		937.4192	937.4192	0.0309	0.1357	978.6172
Worker	0.2759	0.1577	2.4049	7.7300e-003	0.9365	4.6000e-003	0.9411	0.2484	4.2300e-003	0.2526		805.3009	805.3009	0.0188	0.0183	811.2213
Total	0.3250	2.0126	3.0576	0.0164	1.2345	0.0161	1.2506	0.3342	0.0152	0.3494		1,742.7201	1,742.7201	0.0497	0.1539	1,789.8385

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0491	1.8549	0.6527	8.6600e-003	0.2980	0.0115	0.3095	0.0858	0.0110	0.0968		937.4192	937.4192	0.0309	0.1357	978.6172
Worker	0.2759	0.1577	2.4049	7.7300e-003	0.9365	4.6000e-003	0.9411	0.2484	4.2300e-003	0.2526		805.3009	805.3009	0.0188	0.0183	811.2213
Total	0.3250	2.0126	3.0576	0.0164	1.2345	0.0161	1.2506	0.3342	0.0152	0.3494		1,742.7201	1,742.7201	0.0497	0.1539	1,789.8385

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0477	1.8350	0.6447	8.4800e-003	0.2980	0.0114	0.3094	0.0858	0.0109	0.0967		919.5106	919.5106	0.0317	0.1330	959.9388
Worker	0.2608	0.1440	2.2694	7.4900e-003	0.9365	4.3800e-003	0.9409	0.2484	4.0300e-003	0.2524		786.4756	786.4756	0.0172	0.0173	792.0583
Total	0.3085	1.9790	2.9141	0.0160	1.2345	0.0158	1.2503	0.3342	0.0150	0.3492		1,705.9863	1,705.9863	0.0489	0.1503	1,751.9972

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0477	1.8350	0.6447	8.4800e-003	0.2980	0.0114	0.3094	0.0858	0.0109	0.0967		919.5106	919.5106	0.0317	0.1330	959.9388
Worker	0.2608	0.1440	2.2694	7.4900e-003	0.9365	4.3800e-003	0.9409	0.2484	4.0300e-003	0.2524		786.4756	786.4756	0.0172	0.0173	792.0583
Total	0.3085	1.9790	2.9141	0.0160	1.2345	0.0158	1.2503	0.3342	0.0150	0.3492		1,705.9863	1,705.9863	0.0489	0.1503	1,751.9972

3.12 Phase 3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0466	1.8154	0.6382	8.2900e-003	0.2980	0.0113	0.3093	0.0858	0.0108	0.0966		900.4886	900.4886	0.0324	0.1302	940.1076
Worker	0.2466	0.1323	2.1528	7.2700e-003	0.9365	4.1300e-003	0.9406	0.2484	3.8000e-003	0.2522		769.4515	769.4515	0.0158	0.0164	774.7460
Total	0.2932	1.9477	2.7910	0.0156	1.2345	0.0155	1.2499	0.3342	0.0146	0.3488		1,669.9402	1,669.9402	0.0482	0.1467	1,714.8536

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0466	1.8154	0.6382	8.2900e-003	0.2980	0.0113	0.3093	0.0858	0.0108	0.0966		900.4886	900.4886	0.0324	0.1302	940.1076
Worker	0.2466	0.1323	2.1528	7.2700e-003	0.9365	4.1300e-003	0.9406	0.2484	3.8000e-003	0.2522		769.4515	769.4515	0.0158	0.0164	774.7460
Total	0.2932	1.9477	2.7910	0.0156	1.2345	0.0155	1.2499	0.3342	0.0146	0.3488		1,669.9402	1,669.9402	0.0482	0.1467	1,714.8536

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0581	0.0332	0.5063	1.6300e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		169.5370	169.5370	3.9600e-003	3.8500e-003	170.7834
Total	0.0581	0.0332	0.5063	1.6300e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		169.5370	169.5370	3.9600e-003	3.8500e-003	170.7834

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0581	0.0332	0.5063	1.6300e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		169.5370	169.5370	3.9600e-003	3.8500e-003	170.7834
Total	0.0581	0.0332	0.5063	1.6300e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		169.5370	169.5370	3.9600e-003	3.8500e-003	170.7834

3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0549	0.0303	0.4778	1.5800e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		165.5738	165.5738	3.6200e-003	3.6400e-003	166.7491
Total	0.0549	0.0303	0.4778	1.5800e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		165.5738	165.5738	3.6200e-003	3.6400e-003	166.7491

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0549	0.0303	0.4778	1.5800e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		165.5738	165.5738	3.6200e-003	3.6400e-003	166.7491
Total	0.0549	0.0303	0.4778	1.5800e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		165.5738	165.5738	3.6200e-003	3.6400e-003	166.7491

3.14 Phase 3 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9276	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0343	0.0190	0.2986	9.9000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		103.4836	103.4836	2.2600e-003	2.2800e-003	104.2182
Total	0.0343	0.0190	0.2986	9.9000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		103.4836	103.4836	2.2600e-003	2.2800e-003	104.2182

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9276	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0343	0.0190	0.2986	9.9000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		103.4836	103.4836	2.2600e-003	2.2800e-003	104.2182
Total	0.0343	0.0190	0.2986	9.9000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		103.4836	103.4836	2.2600e-003	2.2800e-003	104.2182

3.15 Phase 4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9534	0.0000	8.9534	3.6366	0.0000	3.6366			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	8.9534	1.1309	10.0843	3.6366	1.0404	4.6770		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4413	25.4423	7.5646	0.1130	3.5332	0.2227	3.7559	0.9685	0.2130	1.1815		12,588.11 15	12,588.11 15	0.7372	2.0064	13,204.45 50
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0458	0.0253	0.3981	1.3100e-003	0.1643	7.7000e-004	0.1651	0.0436	7.1000e-004	0.0443		137.9782	137.9782	3.0200e-003	3.0300e-003	138.9576
Total	0.4870	25.4675	7.9627	0.1143	3.6975	0.2234	3.9209	1.0121	0.2137	1.2258		12,726.08 97	12,726.08 97	0.7402	2.0095	13,343.41 26

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9534	0.0000	8.9534	3.6366	0.0000	3.6366			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	8.9534	1.1309	10.0843	3.6366	1.0404	4.6770	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4413	25.4423	7.5646	0.1130	3.5332	0.2227	3.7559	0.9685	0.2130	1.1815		12,588.11 15	12,588.11 15	0.7372	2.0064	13,204.45 50
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0458	0.0253	0.3981	1.3100e-003	0.1643	7.7000e-004	0.1651	0.0436	7.1000e-004	0.0443		137.9782	137.9782	3.0200e-003	3.0300e-003	138.9576
Total	0.4870	25.4675	7.9627	0.1143	3.6975	0.2234	3.9209	1.0121	0.2137	1.2258		12,726.08 97	12,726.08 97	0.7402	2.0095	13,343.41 26

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.598 6	2,739.598 6	0.6602		2,756.103 0
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.598 6	2,739.598 6	0.6602		2,756.103 0

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0336	1.2928	0.4542	5.9800e-003	0.2100	8.0500e-003	0.2180	0.0604	7.7000e-003	0.0681		647.8370	647.8370	0.0223	0.0937	676.3206
Worker	0.1807	0.0998	1.5726	5.1900e-003	0.6490	3.0300e-003	0.6520	0.1721	2.7900e-003	0.1749		545.0138	545.0138	0.0119	0.0120	548.8825
Total	0.2143	1.3926	2.0269	0.0112	0.8589	0.0111	0.8700	0.2326	0.0105	0.2431		1,192.8509	1,192.8509	0.0343	0.1057	1,225.2031

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0336	1.2928	0.4542	5.9800e-003	0.2100	8.0500e-003	0.2180	0.0604	7.7000e-003	0.0681		647.8370	647.8370	0.0223	0.0937	676.3206
Worker	0.1807	0.0998	1.5726	5.1900e-003	0.6490	3.0300e-003	0.6520	0.1721	2.7900e-003	0.1749		545.0138	545.0138	0.0119	0.0120	548.8825
Total	0.2143	1.3926	2.0269	0.0112	0.8589	0.0111	0.8700	0.2326	0.0105	0.2431		1,192.8509	1,192.8509	0.0343	0.1057	1,225.2031

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0329	1.2790	0.4497	5.8400e-003	0.2100	7.9800e-003	0.2179	0.0604	7.6300e-003	0.0681		634.4352	634.4352	0.0228	0.0918	662.3486
Worker	0.1709	0.0917	1.4918	5.0400e-003	0.6490	2.8600e-003	0.6518	0.1721	2.6300e-003	0.1748		533.2164	533.2164	0.0109	0.0114	536.8854
Total	0.2038	1.3707	1.9415	0.0109	0.8589	0.0108	0.8698	0.2326	0.0103	0.2429		1,167.6516	1,167.6516	0.0338	0.1031	1,199.2339

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0329	1.2790	0.4497	5.8400e-003	0.2100	7.9800e-003	0.2179	0.0604	7.6300e-003	0.0681		634.4352	634.4352	0.0228	0.0918	662.3486
Worker	0.1709	0.0917	1.4918	5.0400e-003	0.6490	2.8600e-003	0.6518	0.1721	2.6300e-003	0.1748		533.2164	533.2164	0.0109	0.0114	536.8854
Total	0.2038	1.3707	1.9415	0.0109	0.8589	0.0108	0.8698	0.2326	0.0103	0.2429		1,167.6516	1,167.6516	0.0338	0.1031	1,199.2339

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0412	0.0227	0.3583	1.1800e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		124.1804	124.1804	2.7100e-003	2.7300e-003	125.0618
Total	0.0412	0.0227	0.3583	1.1800e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		124.1804	124.1804	2.7100e-003	2.7300e-003	125.0618

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0412	0.0227	0.3583	1.1800e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		124.1804	124.1804	2.7100e-003	2.7300e-003	125.0618
Total	0.0412	0.0227	0.3583	1.1800e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		124.1804	124.1804	2.7100e-003	2.7300e-003	125.0618

3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0389	0.0209	0.3399	1.1500e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		121.4924	121.4924	2.4900e-003	2.6000e-003	122.3283
Total	0.0389	0.0209	0.3399	1.1500e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		121.4924	121.4924	2.4900e-003	2.6000e-003	122.3283

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0389	0.0209	0.3399	1.1500e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		121.4924	121.4924	2.4900e-003	2.6000e-003	122.3283
Total	0.0389	0.0209	0.3399	1.1500e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		121.4924	121.4924	2.4900e-003	2.6000e-003	122.3283

3.18 Phase 4 Demo - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7635	0.0000	2.7635	0.4185	0.0000	0.4185			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	2.7635	0.8528	3.6163	0.4185	0.7920	1.2105		3,747.5996	3,747.5996	1.0464		3,773.7606

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.18 Phase 4 Demo - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0272	1.5628	0.4768	6.8700e-003	0.2204	0.0138	0.2342	0.0604	0.0132	0.0736		767.3270	767.3270	0.0472	0.1224	804.9786
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0325	0.0174	0.2833	9.6000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.2436	101.2436	2.0800e-003	2.1600e-003	101.9403
Total	0.0597	1.5802	0.7601	7.8300e-003	0.3436	0.0143	0.3579	0.0931	0.0137	0.1068		868.5706	868.5706	0.0493	0.1246	906.9189

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7635	0.0000	2.7635	0.4185	0.0000	0.4185			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	2.7635	0.8528	3.6163	0.4185	0.7920	1.2105	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.18 Phase 4 Demo - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0272	1.5628	0.4768	6.8700e-003	0.2204	0.0138	0.2342	0.0604	0.0132	0.0736		767.3270	767.3270	0.0472	0.1224	804.9786
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0325	0.0174	0.2833	9.6000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		101.2436	101.2436	2.0800e-003	2.1600e-003	101.9403
Total	0.0597	1.5802	0.7601	7.8300e-003	0.3436	0.0143	0.3579	0.0931	0.0137	0.1068		868.5706	868.5706	0.0493	0.1246	906.9189

3.19 Building E Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1038	0.0000	7.1038	3.4270	0.0000	3.4270			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	7.1038	1.1309	8.2347	3.4270	1.0404	4.4675		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.19 Building E Grading - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0433	0.0232	0.3777	1.2800e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		134.9915	134.9915	2.7700e-003	2.8800e-003	135.9204
Total	0.0433	0.0232	0.3777	1.2800e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		134.9915	134.9915	2.7700e-003	2.8800e-003	135.9204

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1038	0.0000	7.1038	3.4270	0.0000	3.4270			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	7.1038	1.1309	8.2347	3.4270	1.0404	4.4675	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.19 Building E Grading - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0433	0.0232	0.3777	1.2800e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		134.9915	134.9915	2.7700e-003	2.8800e-003	135.9204
Total	0.0433	0.0232	0.3777	1.2800e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		134.9915	134.9915	2.7700e-003	2.8800e-003	135.9204

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	28.0455	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0267	0.4343	1.4700e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		155.2402	155.2402	3.1900e-003	3.3200e-003	156.3084
Total	0.0498	0.0267	0.4343	1.4700e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		155.2402	155.2402	3.1900e-003	3.3200e-003	156.3084

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	28.0455	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.20 Phase 3 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0498	0.0267	0.4343	1.4700e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		155.2402	155.2402	3.1900e-003	3.3200e-003	156.3084
Total	0.0498	0.0267	0.4343	1.4700e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		155.2402	155.2402	3.1900e-003	3.3200e-003	156.3084

3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	12.0555	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0346	0.0186	0.3021	1.0200e-003	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		107.9932	107.9932	2.2200e-003	2.3100e-003	108.7363
Total	0.0346	0.0186	0.3021	1.0200e-003	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		107.9932	107.9932	2.2200e-003	2.3100e-003	108.7363

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	12.0555	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.21 Phase 4 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0346	0.0186	0.3021	1.0200e-003	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		107.9932	107.9932	2.2200e-003	2.3100e-003	108.7363
Total	0.0346	0.0186	0.3021	1.0200e-003	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		107.9932	107.9932	2.2200e-003	2.3100e-003	108.7363

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.5797	15.6903	153.3589	0.3393	42.1730	0.2275	42.4006	11.2326	0.2123	11.4449		36,565.77 41	36,565.77 41	2.3696	1.4844	37,067.36 45
Unmitigated	17.5797	15.6903	153.3589	0.3393	42.1730	0.2275	42.4006	11.2326	0.2123	11.4449		36,565.77 41	36,565.77 41	2.3696	1.4844	37,067.36 45

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking Structure	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Research & Development	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707
Total	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking Structure	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
Parking Lot	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Research & Development	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
NaturalGas Unmitigated	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	31542.4	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Total		0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	31.5424	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Total		0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

6.0 Area Detail

6.1 Mitigation Measures Area

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Unmitigated	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.5529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7727					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Total	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.5529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7727					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Total	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Towne Centre View - San Diego County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	0.5	100	2346	0.73	Diesel
Emergency Generator	2	0.5	100	2923	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	2	150	27000	15	CNG
Boiler	3	150	27000	16	CNG

User Defined Equipment

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Boiler - CNG (5 - 75 MMBTU)	4.0442	8.2501	72.0601	0.4412		5.5883	5.5883		5.5883	5.5883		88,236.8017	88,236.8017	1.6912		88,279.0818
Emergency Generator - Diesel (750 - 9999 HP)	12.4967	55.8846	31.8640	0.0601		1.8383	1.8383		1.8383	1.8383		6,392.9000	6,392.9000	0.8963		6,415.3072
Total	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890

11.0 Vegetation

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Towne Centre View
San Diego County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	999.39	1000sqft	24.49	999,390.00	0
Enclosed Parking Structure	2,611.00	Space	0.00	1,044,400.00	0
Parking Lot	112.00	Space	1.01	44,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2028
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	539.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on Site Plan, aall parking gragaes will be below ground

Construction Phase - based on project engineer input

Off-road Equipment - 8-hours days, project engineer inputs

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs
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- Off-road Equipment - 8-hours days, project engineer inputs
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- Off-road Equipment - 8-hours days, project engineer inputs
- Off-road Equipment - 8-hours days, project engineer inputs

Trips and VMT - Building Construcion/Architectural Coatings trips based on square footage being built in each pahse per CalEEMod User Manual Appendix A.

Grading - based on site acerage

Vehicle Trips - per TIA

Vehicle Emission Factors -

Vehicle Emission Factors -

Water And Wastewater - 20% reduction over year 2000 survey per CalGreen

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	35.00	53.00
tblConstructionPhase	NumDays	35.00	79.00
tblConstructionPhase	NumDays	35.00	129.00
tblConstructionPhase	NumDays	35.00	121.00
tblConstructionPhase	NumDays	440.00	548.00
tblConstructionPhase	NumDays	440.00	428.00

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	440.00	550.00
tblConstructionPhase	NumDays	440.00	354.00
tblConstructionPhase	NumDays	30.00	25.00
tblConstructionPhase	NumDays	30.00	76.00
tblConstructionPhase	NumDays	45.00	61.00
tblConstructionPhase	NumDays	45.00	10.00
tblConstructionPhase	NumDays	45.00	25.00
tblConstructionPhase	NumDays	45.00	100.00
tblConstructionPhase	NumDays	45.00	30.00
tblConstructionPhase	NumDays	35.00	212.00
tblConstructionPhase	NumDays	35.00	181.00
tblConstructionPhase	NumDays	20.00	202.00
tblConstructionPhase	NumDays	20.00	226.00
tblGrading	AcresOfGrading	183.00	25.50
tblGrading	AcresOfGrading	30.00	25.50
tblGrading	AcresOfGrading	75.00	25.50
tblGrading	AcresOfGrading	400.00	25.50
tblGrading	AcresOfGrading	90.00	25.50
tblGrading	AcresOfGrading	303.00	0.00
tblGrading	AcresOfGrading	452.00	0.00
tblGrading	MaterialExported	0.00	118,876.00
tblGrading	MaterialExported	0.00	16,159.00
tblGrading	MaterialExported	0.00	146,600.00
tblGrading	MaterialExported	0.00	15,406.00
tblGrading	MaterialImported	0.00	1,727.00
tblGrading	MaterialImported	0.00	6,174.00
tblLandUse	LotAcreage	22.94	24.49
tblLandUse	LotAcreage	23.50	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	342.00	44.00
tblTripsAndVMT	VendorTripNumber	342.00	31.00
tblTripsAndVMT	VendorTripNumber	342.00	42.00
tblTripsAndVMT	VendorTripNumber	342.00	46.00
tblTripsAndVMT	WorkerTripNumber	777.00	114.00
tblTripsAndVMT	WorkerTripNumber	155.00	24.00
tblTripsAndVMT	WorkerTripNumber	777.00	79.00
tblTripsAndVMT	WorkerTripNumber	155.00	23.00
tblTripsAndVMT	WorkerTripNumber	155.00	16.00
tblTripsAndVMT	WorkerTripNumber	777.00	107.00
tblTripsAndVMT	WorkerTripNumber	18.00	15.00
tblTripsAndVMT	WorkerTripNumber	155.00	21.00
tblTripsAndVMT	WorkerTripNumber	777.00	118.00
tblVehicleTrips	WD_TR	11.26	8.00
tblWater	IndoorWaterUseRate	491,394,013.90	393,115,211.10

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.7881	84.6410	46.4830	0.2052	9.9902	2.4536	12.4438	4.3252	2.2798	6.6050	0.0000	21,405.3675	21,405.3675	3.1585	2.0420	22,092.8498
2023	9.4110	91.7868	78.5796	0.1717	29.5725	4.1242	33.6967	14.2907	3.8203	18.1110	0.0000	16,848.5678	16,848.5678	4.1763	0.3401	17,054.3126
2024	28.4919	95.5646	74.1186	0.2106	34.3340	3.6758	38.0098	17.5385	3.4050	20.9435	0.0000	21,234.8406	21,234.8406	4.3598	1.0938	21,669.7887
2025	46.7740	75.9687	56.0598	0.2485	12.4453	1.9848	14.4301	4.9579	1.8473	6.8052	0.0000	26,171.0325	26,171.0325	3.5212	2.6381	27,045.2069
2026	46.7357	78.4915	72.1936	0.2446	20.4308	2.6629	23.0937	10.5694	2.4724	13.0417	0.0000	25,448.2372	25,448.2372	4.1082	2.1663	26,196.4958
2027	46.1542	105.8370	106.8077	0.2379	30.8717	4.3114	35.1831	14.5690	4.0024	18.5714	0.0000	23,321.3490	23,321.3490	5.6656	0.3870	23,578.3000
Maximum	46.7740	105.8370	106.8077	0.2485	34.3340	4.3114	38.0098	17.5385	4.0024	20.9435	0.0000	26,171.0325	26,171.0325	5.6656	2.6381	27,045.2069

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Energy	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Mobile	17.0092	17.0026	158.7347	0.3246	42.1730	0.2276	42.4007	11.2326	0.2123	11.4450		34,983.5733	34,983.5733	2.4971	1.5607	35,511.0783
Stationary	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890
Total	62.2509	84.2332	265.6354	0.8445	42.1730	7.8906	50.0637	11.2326	7.8754	19.1080		133,324.9592	133,324.9592	5.1579	1.6287	133,939.2564

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Energy	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Mobile	17.0092	17.0026	158.7347	0.3246	42.1730	0.2276	42.4007	11.2326	0.2123	11.4450		34,983.5733	34,983.5733	2.4971	1.5607	35,511.0783
Stationary	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890
Total	62.2509	84.2332	265.6354	0.8445	42.1730	7.8906	50.0637	11.2326	7.8754	19.1080		133,324.9592	133,324.9592	5.1579	1.6287	133,939.2564

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Phase 1 Utilities	Trenching	4/4/2022	12/19/2022	5	181	
2	Phase 1 Grading	Grading	5/14/2022	10/5/2022	5	100	
3	Phase 1 Building Construction	Building Construction	10/6/2022	12/5/2024	5	550	
4	Phase 1 Paving	Paving	4/28/2023	1/16/2024	5	181	

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Demo Existing	Demolition	8/31/2023	12/19/2023	5	76
6	Phase 1 Site Preparation	Site Preparation	12/18/2023	11/4/2024	5	226
7	Phase 1 Architectural Coating	Architectural Coating	5/15/2024	11/4/2024	5	121
8	Phase 2 Grading	Grading	7/8/2024	8/16/2024	5	30
9	Phase 2 Building Construction	Building Construction	8/17/2024	1/12/2026	5	354
10	Phase 3 Grading	Grading	2/11/2025	5/6/2025	5	61
11	Phase 3 Building Construction	Building Construction	5/7/2025	7/2/2027	5	548
12	Phase 2 Architectural Coating	Architectural Coating	10/24/2025	1/12/2026	5	53
13	Phase 3 Paving	Paving	2/23/2026	12/14/2026	5	212
14	Phase 4 Grading	Grading	4/9/2026	4/22/2026	5	10
15	Phase 4 Building Construction	Building Construction	4/23/2026	12/30/2027	5	428
16	Phase 3 Site Preparation	Site Preparation	9/17/2026	7/2/2027	5	202
17	Phase 4 Demo	Demolition	2/16/2027	3/22/2027	5	25
18	Building E Grading	Grading	2/16/2027	3/22/2027	5	25
19	Phase 3 Architectural Coating	Architectural Coating	3/15/2027	7/2/2027	5	79
20	Phase 4 Architectural Coating	Architectural Coating	6/26/2027	12/30/2027	5	129

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 25.5

Acres of Paving: 1.01

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 381,537; Non-Residential Outdoor: 63,590; Striped Parking Area: 65,352 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Phase 1 Utilities	Aerial Lifts	2	8.00	63	0.31
Phase 1 Utilities	Excavators	1	8.00	158	0.38
Phase 1 Utilities	Generator Sets	1	8.00	84	0.74
Phase 1 Grading	Crawler Tractors	2	8.00	212	0.43

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 1 Grading	Excavators	2	8.00	158	0.38
Phase 1 Grading	Graders	1	8.00	187	0.41
Phase 1 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 1 Grading	Scrapers	2	8.00	367	0.48
Phase 1 Building Construction	Cranes	1	8.00	231	0.29
Phase 1 Building Construction	Forklifts	3	8.00	89	0.20
Phase 1 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 1 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Building Construction	Welders	1	8.00	46	0.45
Phase 1 Paving	Pavers	2	8.00	130	0.42
Phase 1 Paving	Paving Equipment	2	8.00	132	0.36
Phase 1 Paving	Rollers	2	8.00	80	0.38
Demo Existing	Concrete/Industrial Saws	1	8.00	81	0.73
Demo Existing	Excavators	3	8.00	158	0.38
Demo Existing	Rubber Tired Dozers	3	8.00	247	0.40
Phase 1 Site Preparation	Rubber Tired Dozers	4	8.00	247	0.40
Phase 1 Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 1 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 2 Grading	Excavators	2	8.00	158	0.38
Phase 2 Grading	Graders	1	8.00	187	0.41
Phase 2 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 2 Grading	Scrapers	2	8.00	367	0.48
Phase 2 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 2 Building Construction	Cranes	1	8.00	231	0.29
Phase 2 Building Construction	Forklifts	3	8.00	89	0.20
Phase 2 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 2 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Grading	Excavators	2	8.00	158	0.38

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 3 Grading	Graders	1	8.00	187	0.41
Phase 3 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 3 Grading	Scrapers	2	8.00	367	0.48
Phase 3 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Building Construction	Cranes	1	8.00	231	0.29
Phase 3 Building Construction	Forklifts	3	8.00	89	0.20
Phase 3 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 3 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 3 Building Construction	Welders	1	8.00	46	0.45
Phase 2 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 3 Paving	Pavers	2	8.00	130	0.42
Phase 3 Paving	Paving Equipment	2	8.00	132	0.36
Phase 3 Paving	Rollers	2	8.00	80	0.38
Phase 4 Grading	Excavators	2	8.00	158	0.38
Phase 4 Grading	Graders	1	8.00	187	0.41
Phase 4 Grading	Rubber Tired Dozers	1	8.00	247	0.40
Phase 4 Grading	Scrapers	2	8.00	367	0.48
Phase 4 Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 4 Building Construction	Cranes	1	8.00	231	0.29
Phase 4 Building Construction	Forklifts	3	8.00	89	0.20
Phase 4 Building Construction	Generator Sets	1	8.00	84	0.74
Phase 4 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Phase 4 Building Construction	Welders	1	8.00	46	0.45
Phase 3 Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Phase 3 Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Phase 4 Demo	Concrete/Industrial Saws	1	8.00	81	0.73
Phase 4 Demo	Excavators	3	8.00	158	0.38
Phase 4 Demo	Rubber Tired Dozers	2	8.00	247	0.40
Building E Grading	Excavators	2	8.00	158	0.38

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building E Grading	Graders	1	8.00	187	0.41
Building E Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building E Grading	Scrapers	2	8.00	367	0.48
Building E Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Phase 3 Architectural Coating	Air Compressors	1	8.00	78	0.48
Phase 4 Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Phase 1 Utilities	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Grading	8	20.00	0.00	18,541.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Building Construction	9	107.00	42.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demo Existing	7	15.00	0.00	1,261.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 1 Architectural Coating	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Grading	8	20.00	0.00	2,698.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Building Construction	9	118.00	46.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Grading	8	20.00	0.00	14,860.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Building Construction	9	114.00	44.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 2 Architectural Coating	1	24.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Grading	8	20.00	0.00	2,020.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Building Construction	9	79.00	31.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 3 Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Demo	6	15.00	0.00	315.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building E Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Phase 3 Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Phase 4 Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Phase 1 Utilities - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451		1,448.2895	1,448.2895	0.2965		1,455.7022
Total	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451		1,448.2895	1,448.2895	0.2965		1,455.7022

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 1 Utilities - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0316	0.0214	0.2458	7.1000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		72.0572	72.0572	2.3300e-003	2.1300e-003	72.7491
Total	0.0316	0.0214	0.2458	7.1000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		72.0572	72.0572	2.3300e-003	2.1300e-003	72.7491

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451	0.0000	1,448.2895	1,448.2895	0.2965		1,455.7022
Total	0.6045	5.8258	9.1190	0.0151		0.2536	0.2536		0.2451	0.2451	0.0000	1,448.2895	1,448.2895	0.2965		1,455.7022

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Phase 1 Utilities - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0316	0.0214	0.2458	7.1000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		72.0572	72.0572	2.3300e-003	2.1300e-003	72.7491
Total	0.0316	0.0214	0.2458	7.1000e-004	0.0822	4.7000e-004	0.0826	0.0218	4.3000e-004	0.0222		72.0572	72.0572	2.3300e-003	2.1300e-003	72.7491

3.3 Phase 1 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5009	0.0000	6.5009	3.3710	0.0000	3.3710			0.0000			0.0000
Off-Road	4.2792	47.5079	29.1953	0.0715		1.9081	1.9081		1.7554	1.7554		6,926.9974	6,926.9974	2.2403		6,983.0056
Total	4.2792	47.5079	29.1953	0.0715	6.5009	1.9081	8.4090	3.3710	1.7554	5.1264		6,926.9974	6,926.9974	2.2403		6,983.0056

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 1 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8096	31.2432	7.4312	0.1164	3.2428	0.2906	3.5333	0.8889	0.2780	1.1668		12,813.9091	12,813.9091	0.6147	2.0356	13,435.8947
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0428	0.4917	1.4200e-003	0.1643	9.3000e-004	0.1652	0.0436	8.6000e-004	0.0444		144.1143	144.1143	4.6500e-003	4.2500e-003	145.4982
Total	0.8728	31.2860	7.9229	0.1178	3.4071	0.2915	3.6986	0.9324	0.2788	1.2113		12,958.0234	12,958.0234	0.6194	2.0399	13,581.3929

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5009	0.0000	6.5009	3.3710	0.0000	3.3710			0.0000			0.0000
Off-Road	4.2792	47.5079	29.1953	0.0715		1.9081	1.9081		1.7554	1.7554	0.0000	6,926.9974	6,926.9974	2.2403		6,983.0056
Total	4.2792	47.5079	29.1953	0.0715	6.5009	1.9081	8.4090	3.3710	1.7554	5.1264	0.0000	6,926.9974	6,926.9974	2.2403		6,983.0056

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Phase 1 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8096	31.2432	7.4312	0.1164	3.2428	0.2906	3.5333	0.8889	0.2780	1.1668		12,813.90 91	12,813.90 91	0.6147	2.0356	13,435.89 47
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0632	0.0428	0.4917	1.4200e-003	0.1643	9.3000e-004	0.1652	0.0436	8.6000e-004	0.0444		144.1143	144.1143	4.6500e-003	4.2500e-003	145.4982
Total	0.8728	31.2860	7.9229	0.1178	3.4071	0.2915	3.6986	0.9324	0.2788	1.2113		12,958.02 34	12,958.02 34	0.6194	2.0399	13,581.39 29

3.4 Phase 1 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.152 0	2,737.152 0	0.6711		2,753.928 8
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.152 0	2,737.152 0	0.6711		2,753.928 8

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0927	2.3179	0.7703	8.9600e-003	0.2845	0.0244	0.3088	0.0819	0.0233	0.1052		965.7631	965.7631	0.0292	0.1403	1,008.3054
Worker	0.3379	0.2287	2.6305	7.5800e-003	0.8790	4.9800e-003	0.8840	0.2332	4.5800e-003	0.2377		771.0117	771.0117	0.0249	0.0228	778.4156
Total	0.4306	2.5466	3.4007	0.0165	1.1634	0.0293	1.1928	0.3150	0.0279	0.3429		1,736.7748	1,736.7748	0.0541	0.1631	1,786.7210

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0927	2.3179	0.7703	8.9600e-003	0.2845	0.0244	0.3088	0.0819	0.0233	0.1052		965.7631	965.7631	0.0292	0.1403	1,008.3054
Worker	0.3379	0.2287	2.6305	7.5800e-003	0.8790	4.9800e-003	0.8840	0.2332	4.5800e-003	0.2377		771.0117	771.0117	0.0249	0.0228	778.4156
Total	0.4306	2.5466	3.4007	0.0165	1.1634	0.0293	1.1928	0.3150	0.0279	0.3429		1,736.7748	1,736.7748	0.0541	0.1631	1,786.7210

3.4 Phase 1 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029		2,738.1535	2,738.1535	0.6670		2,754.8288
Total	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029		2,738.1535	2,738.1535	0.6670		2,754.8288

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0488	1.8762	0.6684	8.6100e-003	0.2845	0.0110	0.2955	0.0819	0.0105	0.0924		929.7171	929.7171	0.0280	0.1347	970.5694
Worker	0.3173	0.2044	2.4467	7.3400e-003	0.8790	4.7300e-003	0.8837	0.2332	4.3500e-003	0.2375		751.1617	751.1617	0.0227	0.0212	758.0353
Total	0.3661	2.0806	3.1151	0.0160	1.1634	0.0158	1.1792	0.3150	0.0149	0.3299		1,680.8788	1,680.8788	0.0507	0.1559	1,728.6048

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029	0.0000	2,738.1535	2,738.1535	0.6670		2,754.8288
Total	1.6735	15.4377	17.3101	0.0288		0.7481	0.7481		0.7029	0.7029	0.0000	2,738.1535	2,738.1535	0.6670		2,754.8288

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0488	1.8762	0.6684	8.6100e-003	0.2845	0.0110	0.2955	0.0819	0.0105	0.0924		929.7171	929.7171	0.0280	0.1347	970.5694
Worker	0.3173	0.2044	2.4467	7.3400e-003	0.8790	4.7300e-003	0.8837	0.2332	4.3500e-003	0.2375		751.1617	751.1617	0.0227	0.0212	758.0353
Total	0.3661	2.0806	3.1151	0.0160	1.1634	0.0158	1.1792	0.3150	0.0149	0.3299		1,680.8788	1,680.8788	0.0507	0.1559	1,728.6048

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0468	1.8636	0.6532	8.4500e-003	0.2845	0.0111	0.2955	0.0819	0.0106	0.0925		913.5449	913.5449	0.0286	0.1324	953.7101
Worker	0.2988	0.1838	2.2909	7.1000e-003	0.8790	4.5100e-003	0.8835	0.2332	4.1500e-003	0.2373		732.3517	732.3517	0.0207	0.0198	738.7612
Total	0.3456	2.0474	2.9441	0.0156	1.1634	0.0156	1.1790	0.3150	0.0147	0.3298		1,645.8965	1,645.8965	0.0493	0.1522	1,692.4713

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Phase 1 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0468	1.8636	0.6532	8.4500e-003	0.2845	0.0111	0.2955	0.0819	0.0106	0.0925		913.5449	913.5449	0.0286	0.1324	953.7101
Worker	0.2988	0.1838	2.2909	7.1000e-003	0.8790	4.5100e-003	0.8835	0.2332	4.1500e-003	0.2373		732.3517	732.3517	0.0207	0.0198	738.7612
Total	0.3456	2.0474	2.9441	0.0156	1.1634	0.0156	1.1790	0.3150	0.0147	0.3298		1,645.8965	1,645.8965	0.0493	0.1522	1,692.4713

3.5 Phase 1 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0474	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666
Total	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0474	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666
Total	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666

3.5 Phase 1 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0028	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0419	0.0258	0.3212	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		102.6661	102.6661	2.9000e-003	2.7700e-003	103.5647
Total	0.0419	0.0258	0.3212	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		102.6661	102.6661	2.9000e-003	2.7700e-003	103.5647

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0146					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0028	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Phase 1 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0419	0.0258	0.3212	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		102.6661	102.6661	2.9000e-003	2.7700e-003	103.5647
Total	0.0419	0.0258	0.3212	1.0000e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		102.6661	102.6661	2.9000e-003	2.7700e-003	103.5647

3.6 Demo Existing - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6362	0.0000	3.6362	0.5507	0.0000	0.5507			0.0000			0.0000
Off-Road	2.9538	28.6116	22.7497	0.0474		1.3185	1.3185		1.2232	1.2232		4,573.9847	4,573.9847	1.3168		4,606.9057
Total	2.9538	28.6116	22.7497	0.0474	3.6362	1.3185	4.9547	0.5507	1.2232	1.7739		4,573.9847	4,573.9847	1.3168		4,606.9057

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Demo Existing - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0353	2.2580	0.6037	9.9400e-003	0.2902	0.0185	0.3087	0.0795	0.0177	0.0972		1,098.2645	1,098.2645	0.0552	0.1747	1,151.6921
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666
Total	0.0798	2.2867	0.9467	0.0110	0.4134	0.0191	0.4325	0.1122	0.0183	0.1305		1,203.5676	1,203.5676	0.0583	0.1776	1,257.9587

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6362	0.0000	3.6362	0.5507	0.0000	0.5507			0.0000			0.0000
Off-Road	2.9538	28.6116	22.7497	0.0474		1.3185	1.3185		1.2232	1.2232	0.0000	4,573.9847	4,573.9847	1.3168		4,606.9057
Total	2.9538	28.6116	22.7497	0.0474	3.6362	1.3185	4.9547	0.5507	1.2232	1.7739	0.0000	4,573.9847	4,573.9847	1.3168		4,606.9057

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Demo Existing - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0353	2.2580	0.6037	9.9400e-003	0.2902	0.0185	0.3087	0.0795	0.0177	0.0972		1,098.2645	1,098.2645	0.0552	0.1747	1,151.6921
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0445	0.0287	0.3430	1.0300e-003	0.1232	6.6000e-004	0.1239	0.0327	6.1000e-004	0.0333		105.3031	105.3031	3.1800e-003	2.9700e-003	106.2666
Total	0.0798	2.2867	0.9467	0.0110	0.4134	0.0191	0.4325	0.1122	0.0183	0.1305		1,203.5676	1,203.5676	0.0583	0.1776	1,257.9587

3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.1928	33.1156	19.1194	0.0435		1.5111	1.5111		1.3902	1.3902		4,212.7323	4,212.7323	1.3625		4,246.7944
Total	3.1928	33.1156	19.1194	0.0435	24.0883	1.5111	25.5995	13.2409	1.3902	14.6312		4,212.7323	4,212.7323	1.3625		4,246.7944

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200
Total	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.1928	33.1156	19.1194	0.0435		1.5111	1.5111		1.3902	1.3902	0.0000	4,212.7323	4,212.7323	1.3625		4,246.7944
Total	3.1928	33.1156	19.1194	0.0435	24.0883	1.5111	25.5995	13.2409	1.3902	14.6312	0.0000	4,212.7323	4,212.7323	1.3625		4,246.7944

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200
Total	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200

3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.2120	32.8554	19.2311	0.0435		1.4841	1.4841		1.3653	1.3653		4,213.224 2	4,213.224 2	1.3626		4,247.290 3
Total	3.2120	32.8554	19.2311	0.0435	24.0883	1.4841	25.5724	13.2409	1.3653	14.6062		4,213.224 2	4,213.224 2	1.3626		4,247.290 3

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0309	0.3854	1.1900e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		123.1993	123.1993	3.4800e-003	3.3300e-003	124.2776
Total	0.0503	0.0309	0.3854	1.1900e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		123.1993	123.1993	3.4800e-003	3.3300e-003	124.2776

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					24.0883	0.0000	24.0883	13.2409	0.0000	13.2409			0.0000			0.0000
Off-Road	3.2120	32.8554	19.2311	0.0435		1.4841	1.4841		1.3653	1.3653	0.0000	4,213.224 2	4,213.224 2	1.3626		4,247.290 3
Total	3.2120	32.8554	19.2311	0.0435	24.0883	1.4841	25.5724	13.2409	1.3653	14.6062	0.0000	4,213.224 2	4,213.224 2	1.3626		4,247.290 3

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Phase 1 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0503	0.0309	0.3854	1.1900e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		123.1993	123.1993	3.4800e-003	3.3300e-003	124.2776
Total	0.0503	0.0309	0.3854	1.1900e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		123.1993	123.1993	3.4800e-003	3.3300e-003	124.2776

3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.5543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923
Total	19.7953	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812		375.2641	375.2641	0.0211		375.7923

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Phase 1 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0361	0.4496	1.3900e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		143.7326	143.7326	4.0600e-003	3.8800e-003	144.9905
Total	0.0586	0.0361	0.4496	1.3900e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		143.7326	143.7326	4.0600e-003	3.8800e-003	144.9905

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	19.5543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2410	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923
Total	19.7953	1.6251	2.4135	3.9600e-003		0.0812	0.0812		0.0812	0.0812	0.0000	375.2641	375.2641	0.0211		375.7923

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Phase 1 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0361	0.4496	1.3900e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		143.7326	143.7326	4.0600e-003	3.8800e-003	144.9905
Total	0.0586	0.0361	0.4496	1.3900e-003	0.1725	8.8000e-004	0.1734	0.0458	8.1000e-004	0.0466		143.7326	143.7326	4.0600e-003	3.8800e-003	144.9905

3.9 Phase 2 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0246	0.0000	7.0246	3.4229	0.0000	3.4229			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	7.0246	1.3354	8.3600	3.4229	1.2286	4.6514		6,009.7487	6,009.7487	1.9437		6,058.3405

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Phase 2 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1891	12.1335	3.3169	0.0528	1.5730	0.1006	1.6736	0.4312	0.0963	0.5274		5,848.1747	5,848.1747	0.3081	0.9307	6,133.2391
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0344	0.4282	1.3300e-003	0.1643	8.4000e-004	0.1651	0.0436	7.8000e-004	0.0444		136.8882	136.8882	3.8600e-003	3.7000e-003	138.0862
Total	0.2449	12.1679	3.7451	0.0541	1.7373	0.1015	1.8388	0.4747	0.0970	0.5718		5,985.0629	5,985.0629	0.3120	0.9344	6,271.3253

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0246	0.0000	7.0246	3.4229	0.0000	3.4229			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	7.0246	1.3354	8.3600	3.4229	1.2286	4.6514	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Phase 2 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1891	12.1335	3.3169	0.0528	1.5730	0.1006	1.6736	0.4312	0.0963	0.5274		5,848.1747	5,848.1747	0.3081	0.9307	6,133.2391
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0559	0.0344	0.4282	1.3300e-003	0.1643	8.4000e-004	0.1651	0.0436	7.8000e-004	0.0444		136.8882	136.8882	3.8600e-003	3.7000e-003	138.0862
Total	0.2449	12.1679	3.7451	0.0541	1.7373	0.1015	1.8388	0.4747	0.0970	0.5718		5,985.0629	5,985.0629	0.3120	0.9344	6,271.3253

3.10 Phase 2 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166		2,738.7124	2,738.7124	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0513	2.0411	0.7154	9.2600e-003	0.3116	0.0121	0.3237	0.0897	0.0116	0.1013		1,000.5492	1,000.5492	0.0314	0.1450	1,044.5396
Worker	0.3295	0.2027	2.5264	7.8300e-003	0.9693	4.9700e-003	0.9743	0.2571	4.5800e-003	0.2617		807.6401	807.6401	0.0228	0.0218	814.7086
Total	0.3808	2.2438	3.2418	0.0171	1.2809	0.0171	1.2980	0.3468	0.0162	0.3630		1,808.1893	1,808.1893	0.0542	0.1668	1,859.2483

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009
Total	1.5670	14.4249	17.2270	0.0288		0.6565	0.6565		0.6166	0.6166	0.0000	2,738.7123	2,738.7123	0.6635		2,755.3009

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0513	2.0411	0.7154	9.2600e-003	0.3116	0.0121	0.3237	0.0897	0.0116	0.1013		1,000.5492	1,000.5492	0.0314	0.1450	1,044.5396
Worker	0.3295	0.2027	2.5264	7.8300e-003	0.9693	4.9700e-003	0.9743	0.2571	4.5800e-003	0.2617		807.6401	807.6401	0.0228	0.0218	814.7086
Total	0.3808	2.2438	3.2418	0.0171	1.2809	0.0171	1.2980	0.3468	0.0162	0.3630		1,808.1893	1,808.1893	0.0542	0.1668	1,859.2483

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0496	2.0212	0.7036	9.0700e-003	0.3116	0.0121	0.3236	0.0897	0.0116	0.1013		981.4965	981.4965	0.0322	0.1422	1,024.6610
Worker	0.3112	0.1836	2.3737	7.5600e-003	0.9693	4.7600e-003	0.9741	0.2571	4.3800e-003	0.2615		787.9274	787.9274	0.0208	0.0205	794.5467
Total	0.3607	2.2048	3.0772	0.0166	1.2809	0.0169	1.2977	0.3468	0.0159	0.3628		1,769.4240	1,769.4240	0.0530	0.1626	1,819.2078

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0496	2.0212	0.7036	9.0700e-003	0.3116	0.0121	0.3236	0.0897	0.0116	0.1013		981.4965	981.4965	0.0322	0.1422	1,024.6610
Worker	0.3112	0.1836	2.3737	7.5600e-003	0.9693	4.7600e-003	0.9741	0.2571	4.3800e-003	0.2615		787.9274	787.9274	0.0208	0.0205	794.5467
Total	0.3607	2.2048	3.0772	0.0166	1.2809	0.0169	1.2977	0.3468	0.0159	0.3628		1,769.4240	1,769.4240	0.0530	0.1626	1,819.2078

3.10 Phase 2 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0481	1.9998	0.6950	8.8800e-003	0.3116	0.0120	0.3235	0.0897	0.0115	0.1012		962.7764	962.7764	0.0330	0.1394	1,005.1342
Worker	0.2948	0.1676	2.2426	7.3300e-003	0.9693	4.5300e-003	0.9739	0.2571	4.1700e-003	0.2613		769.5687	769.5687	0.0191	0.0194	775.8103
Total	0.3429	2.1674	2.9375	0.0162	1.2809	0.0165	1.2974	0.3468	0.0156	0.3625		1,732.3452	1,732.3452	0.0520	0.1587	1,780.9445

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 Phase 2 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0481	1.9998	0.6950	8.8800e-003	0.3116	0.0120	0.3235	0.0897	0.0115	0.1012		962.7764	962.7764	0.0330	0.1394	1,005.1342
Worker	0.2948	0.1676	2.2426	7.3300e-003	0.9693	4.5300e-003	0.9739	0.2571	4.1700e-003	0.2613		769.5687	769.5687	0.0191	0.0194	775.8103
Total	0.3429	2.1674	2.9375	0.0162	1.2809	0.0165	1.2974	0.3468	0.0156	0.3625		1,732.3452	1,732.3452	0.0520	0.1587	1,780.9445

3.11 Phase 3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7393	0.0000	6.7393	3.3996	0.0000	3.3996			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	6.7393	1.1309	7.8701	3.3996	1.0404	4.4400		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 Phase 3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5059	32.4235	9.1113	0.1397	4.2609	0.2715	4.5324	1.1679	0.2598	1.4277		15,520.18 15	15,520.18 15	0.8613	2.4720	16,278.36 57
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0527	0.0311	0.4023	1.2800e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		133.5470	133.5470	3.5300e-003	3.4700e-003	134.6689
Total	0.5586	32.4546	9.5136	0.1410	4.4252	0.2723	4.6975	1.2115	0.2605	1.4720		15,653.72 86	15,653.72 86	0.8648	2.4755	16,413.03 47

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7393	0.0000	6.7393	3.3996	0.0000	3.3996			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.7393	1.1309	7.8701	3.3996	1.0404	4.4400	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.11 Phase 3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5059	32.4235	9.1113	0.1397	4.2609	0.2715	4.5324	1.1679	0.2598	1.4277		15,520.18 15	15,520.18 15	0.8613	2.4720	16,278.36 57
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0527	0.0311	0.4023	1.2800e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		133.5470	133.5470	3.5300e-003	3.4700e-003	134.6689
Total	0.5586	32.4546	9.5136	0.1410	4.4252	0.2723	4.6975	1.2115	0.2605	1.4720		15,653.72 86	15,653.72 86	0.8648	2.4755	16,413.03 47

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.598 6	2,739.598 6	0.6602		2,756.103 0
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.598 6	2,739.598 6	0.6602		2,756.103 0

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0474	1.9334	0.6730	8.6700e-003	0.2980	0.0116	0.3096	0.0858	0.0111	0.0969		938.8228	938.8228	0.0308	0.1360	980.1106
Worker	0.3006	0.1774	2.2932	7.3100e-003	0.9365	4.6000e-003	0.9411	0.2484	4.2300e-003	0.2526		761.2180	761.2180	0.0201	0.0198	767.6130
Total	0.3480	2.1107	2.9662	0.0160	1.2345	0.0162	1.2506	0.3342	0.0153	0.3495		1,700.0408	1,700.0408	0.0509	0.1557	1,747.7235

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0474	1.9334	0.6730	8.6700e-003	0.2980	0.0116	0.3096	0.0858	0.0111	0.0969		938.8228	938.8228	0.0308	0.1360	980.1106
Worker	0.3006	0.1774	2.2932	7.3100e-003	0.9365	4.6000e-003	0.9411	0.2484	4.2300e-003	0.2526		761.2180	761.2180	0.0201	0.0198	767.6130
Total	0.3480	2.1107	2.9662	0.0160	1.2345	0.0162	1.2506	0.3342	0.0153	0.3495		1,700.0408	1,700.0408	0.0509	0.1557	1,747.7235

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0460	1.9129	0.6648	8.4900e-003	0.2980	0.0115	0.3095	0.0858	0.0110	0.0968		920.9166	920.9166	0.0315	0.1333	961.4327
Worker	0.2848	0.1619	2.1665	7.0800e-003	0.9365	4.3800e-003	0.9409	0.2484	4.0300e-003	0.2524		743.4817	743.4817	0.0184	0.0187	749.5117
Total	0.3309	2.0748	2.8313	0.0156	1.2345	0.0159	1.2503	0.3342	0.0150	0.3492		1,664.3983	1,664.3983	0.0500	0.1520	1,710.9444

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0460	1.9129	0.6648	8.4900e-003	0.2980	0.0115	0.3095	0.0858	0.0110	0.0968		920.9166	920.9166	0.0315	0.1333	961.4327
Worker	0.2848	0.1619	2.1665	7.0800e-003	0.9365	4.3800e-003	0.9409	0.2484	4.0300e-003	0.2524		743.4817	743.4817	0.0184	0.0187	749.5117
Total	0.3309	2.0748	2.8313	0.0156	1.2345	0.0159	1.2503	0.3342	0.0150	0.3492		1,664.3983	1,664.3983	0.0500	0.1520	1,710.9444

3.12 Phase 3 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0449	1.8927	0.6581	8.3100e-003	0.2980	0.0114	0.3094	0.0858	0.0109	0.0967		901.8921	901.8921	0.0322	0.1305	941.5973
Worker	0.2699	0.1487	2.0573	6.8700e-003	0.9365	4.1300e-003	0.9406	0.2484	3.8000e-003	0.2522		727.4242	727.4242	0.0169	0.0178	733.1428
Total	0.3148	2.0415	2.7154	0.0152	1.2345	0.0155	1.2500	0.3342	0.0147	0.3489		1,629.3164	1,629.3164	0.0492	0.1483	1,674.7401

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.12 Phase 3 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0449	1.8927	0.6581	8.3100e-003	0.2980	0.0114	0.3094	0.0858	0.0109	0.0967		901.8921	901.8921	0.0322	0.1305	941.5973
Worker	0.2699	0.1487	2.0573	6.8700e-003	0.9365	4.1300e-003	0.9406	0.2484	3.8000e-003	0.2522		727.4242	727.4242	0.0169	0.0178	733.1428
Total	0.3148	2.0415	2.7154	0.0152	1.2345	0.0155	1.2500	0.3342	0.0147	0.3489		1,629.3164	1,629.3164	0.0492	0.1483	1,674.7401

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0633	0.0373	0.4828	1.5400e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		160.2564	160.2564	4.2300e-003	4.1600e-003	161.6027
Total	0.0633	0.0373	0.4828	1.5400e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		160.2564	160.2564	4.2300e-003	4.1600e-003	161.6027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0633	0.0373	0.4828	1.5400e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		160.2564	160.2564	4.2300e-003	4.1600e-003	161.6027
Total	0.0633	0.0373	0.4828	1.5400e-003	0.1972	9.7000e-004	0.1981	0.0523	8.9000e-004	0.0532		160.2564	160.2564	4.2300e-003	4.1600e-003	161.6027

3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0600	0.0341	0.4561	1.4900e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		156.5225	156.5225	3.8800e-003	3.9300e-003	157.7919
Total	0.0600	0.0341	0.4561	1.4900e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		156.5225	156.5225	3.8800e-003	3.9300e-003	157.7919

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	42.8620					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	43.0898	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.13 Phase 2 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0600	0.0341	0.4561	1.4900e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		156.5225	156.5225	3.8800e-003	3.9300e-003	157.7919
Total	0.0600	0.0341	0.4561	1.4900e-003	0.1972	9.2000e-004	0.1981	0.0523	8.5000e-004	0.0531		156.5225	156.5225	3.8800e-003	3.9300e-003	157.7919

3.14 Phase 3 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9276	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0375	0.0213	0.2851	9.3000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		97.8265	97.8265	2.4200e-003	2.4600e-003	98.6200
Total	0.0375	0.0213	0.2851	9.3000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		97.8265	97.8265	2.4200e-003	2.4600e-003	98.6200

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0125					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9276	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.14 Phase 3 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0375	0.0213	0.2851	9.3000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		97.8265	97.8265	2.4200e-003	2.4600e-003	98.6200
Total	0.0375	0.0213	0.2851	9.3000e-004	0.1232	5.8000e-004	0.1238	0.0327	5.3000e-004	0.0332		97.8265	97.8265	2.4200e-003	2.4600e-003	98.6200

3.15 Phase 4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9534	0.0000	8.9534	3.6366	0.0000	3.6366			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	8.9534	1.1309	10.0843	3.6366	1.0404	4.6770		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4139	26.4761	7.6537	0.1131	3.5332	0.2230	3.7562	0.9685	0.2134	1.1819		12,600.9518	12,600.9518	0.7355	2.0086	13,217.8860
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0500	0.0284	0.3801	1.2400e-003	0.1643	7.7000e-004	0.1651	0.0436	7.1000e-004	0.0443		130.4354	130.4354	3.2300e-003	3.2800e-003	131.4933
Total	0.4639	26.5045	8.0338	0.1143	3.6975	0.2238	3.9213	1.0121	0.2141	1.2261		12,731.3872	12,731.3872	0.7387	2.0118	13,349.3793

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9534	0.0000	8.9534	3.6366	0.0000	3.6366			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	8.9534	1.1309	10.0843	3.6366	1.0404	4.6770	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.15 Phase 4 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4139	26.4761	7.6537	0.1131	3.5332	0.2230	3.7562	0.9685	0.2134	1.1819		12,600.9518	12,600.9518	0.7355	2.0086	13,217.8860
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0500	0.0284	0.3801	1.2400e-003	0.1643	7.7000e-004	0.1651	0.0436	7.1000e-004	0.0443		130.4354	130.4354	3.2300e-003	3.2800e-003	131.4933
Total	0.4639	26.5045	8.0338	0.1143	3.6975	0.2238	3.9213	1.0121	0.2141	1.2261		12,731.3872	12,731.3872	0.7387	2.0118	13,349.3793

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0324	1.3477	0.4684	5.9800e-003	0.2100	8.0800e-003	0.2180	0.0604	7.7300e-003	0.0682		648.8276	648.8276	0.0222	0.0939	677.3731
Worker	0.1974	0.1122	1.5014	4.9100e-003	0.6490	3.0300e-003	0.6520	0.1721	2.7900e-003	0.1749		515.2198	515.2198	0.0128	0.0130	519.3984
Total	0.2298	1.4599	1.9697	0.0109	0.8589	0.0111	0.8700	0.2326	0.0105	0.2431		1,164.0474	1,164.0474	0.0350	0.1069	1,196.7715

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0324	1.3477	0.4684	5.9800e-003	0.2100	8.0800e-003	0.2180	0.0604	7.7300e-003	0.0682		648.8276	648.8276	0.0222	0.0939	677.3731
Worker	0.1974	0.1122	1.5014	4.9100e-003	0.6490	3.0300e-003	0.6520	0.1721	2.7900e-003	0.1749		515.2198	515.2198	0.0128	0.0130	519.3984
Total	0.2298	1.4599	1.9697	0.0109	0.8589	0.0111	0.8700	0.2326	0.0105	0.2431		1,164.0474	1,164.0474	0.0350	0.1069	1,196.7715

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304		2,739.5986	2,739.5986	0.6602		2,756.1030

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0316	1.3335	0.4637	5.8500e-003	0.2100	8.0100e-003	0.2180	0.0604	7.6600e-003	0.0681		635.4240	635.4240	0.0227	0.0920	663.3981
Worker	0.1871	0.1031	1.4257	4.7600e-003	0.6490	2.8600e-003	0.6518	0.1721	2.6300e-003	0.1748		504.0922	504.0922	0.0117	0.0123	508.0551
Total	0.2187	1.4366	1.8893	0.0106	0.8589	0.0109	0.8698	0.2326	0.0103	0.2429		1,139.5162	1,139.5162	0.0345	0.1043	1,171.4532

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029
Total	1.4560	13.3663	17.1378	0.0289		0.5647	0.5647		0.5304	0.5304	0.0000	2,739.5986	2,739.5986	0.6602		2,756.1029

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.16 Phase 4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0316	1.3335	0.4637	5.8500e-003	0.2100	8.0100e-003	0.2180	0.0604	7.6600e-003	0.0681		635.4240	635.4240	0.0227	0.0920	663.3981
Worker	0.1871	0.1031	1.4257	4.7600e-003	0.6490	2.8600e-003	0.6518	0.1721	2.6300e-003	0.1748		504.0922	504.0922	0.0117	0.0123	508.0551
Total	0.2187	1.4366	1.8893	0.0106	0.8589	0.0109	0.8698	0.2326	0.0103	0.2429		1,139.5162	1,139.5162	0.0345	0.1043	1,171.4532

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0450	0.0256	0.3421	1.1200e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		117.3918	117.3918	2.9100e-003	2.9500e-003	118.3439
Total	0.0450	0.0256	0.3421	1.1200e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		117.3918	117.3918	2.9100e-003	2.9500e-003	118.3439

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0450	0.0256	0.3421	1.1200e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		117.3918	117.3918	2.9100e-003	2.9500e-003	118.3439
Total	0.0450	0.0256	0.3421	1.1200e-003	0.1479	6.9000e-004	0.1486	0.0392	6.4000e-004	0.0399		117.3918	117.3918	2.9100e-003	2.9500e-003	118.3439

3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305		3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0426	0.0235	0.3248	1.0900e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		114.8565	114.8565	2.6700e-003	2.8100e-003	115.7594
Total	0.0426	0.0235	0.3248	1.0900e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		114.8565	114.8565	2.6700e-003	2.8100e-003	115.7594

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	18.0663	1.0868	19.1531	9.9307	0.9999	10.9305	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.17 Phase 3 Site Preparation - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0426	0.0235	0.3248	1.0900e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		114.8565	114.8565	2.6700e-003	2.8100e-003	115.7594
Total	0.0426	0.0235	0.3248	1.0900e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		114.8565	114.8565	2.6700e-003	2.8100e-003	115.7594

3.18 Phase 4 Demo - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7635	0.0000	2.7635	0.4185	0.0000	0.4185			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	2.7635	0.8528	3.6163	0.4185	0.7920	1.2105		3,747.5996	3,747.5996	1.0464		3,773.7606

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.18 Phase 4 Demo - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0255	1.6265	0.4824	6.8800e-003	0.2204	0.0138	0.2342	0.0604	0.0132	0.0736		768.1210	768.1210	0.0471	0.1225	805.8091
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0355	0.0196	0.2707	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		95.7137	95.7137	2.2300e-003	2.3400e-003	96.4662
Total	0.0611	1.6460	0.7531	7.7800e-003	0.3436	0.0143	0.3579	0.0931	0.0137	0.1068		863.8347	863.8347	0.0493	0.1249	902.2752

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7635	0.0000	2.7635	0.4185	0.0000	0.4185			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	2.7635	0.8528	3.6163	0.4185	0.7920	1.2105	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.18 Phase 4 Demo - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0255	1.6265	0.4824	6.8800e-003	0.2204	0.0138	0.2342	0.0604	0.0132	0.0736		768.1210	768.1210	0.0471	0.1225	805.8091
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0355	0.0196	0.2707	9.0000e-004	0.1232	5.4000e-004	0.1238	0.0327	5.0000e-004	0.0332		95.7137	95.7137	2.2300e-003	2.3400e-003	96.4662
Total	0.0611	1.6460	0.7531	7.7800e-003	0.3436	0.0143	0.3579	0.0931	0.0137	0.1068		863.8347	863.8347	0.0493	0.1249	902.2752

3.19 Building E Grading - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1038	0.0000	7.1038	3.4270	0.0000	3.4270			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	7.1038	1.1309	8.2347	3.4270	1.0404	4.4675		6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.19 Building E Grading - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0474	0.0261	0.3609	1.2100e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		127.6183	127.6183	2.9700e-003	3.1200e-003	128.6215
Total	0.0474	0.0261	0.3609	1.2100e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		127.6183	127.6183	2.9700e-003	3.1200e-003	128.6215

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1038	0.0000	7.1038	3.4270	0.0000	3.4270			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	7.1038	1.1309	8.2347	3.4270	1.0404	4.4675	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.19 Building E Grading - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0474	0.0261	0.3609	1.2100e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		127.6183	127.6183	2.9700e-003	3.1200e-003	128.6215
Total	0.0474	0.0261	0.3609	1.2100e-003	0.1643	7.2000e-004	0.1650	0.0436	6.7000e-004	0.0442		127.6183	127.6183	2.9700e-003	3.1200e-003	128.6215

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	28.0455	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.20 Phase 3 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0545	0.0300	0.4151	1.3900e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		146.7610	146.7610	3.4200e-003	3.5800e-003	147.9148
Total	0.0545	0.0300	0.4151	1.3900e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		146.7610	146.7610	3.4200e-003	3.5800e-003	147.9148

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.8177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	28.0455	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.20 Phase 3 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0545	0.0300	0.4151	1.3900e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		146.7610	146.7610	3.4200e-003	3.5800e-003	147.9148
Total	0.0545	0.0300	0.4151	1.3900e-003	0.1889	8.3000e-004	0.1898	0.0501	7.7000e-004	0.0509		146.7610	146.7610	3.4200e-003	3.5800e-003	147.9148

3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758
Total	12.0555	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687		375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.21 Phase 4 Architectural Coating - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0379	0.0209	0.2887	9.6000e-004	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		102.0946	102.0946	2.3800e-003	2.4900e-003	102.8972
Total	0.0379	0.0209	0.2887	9.6000e-004	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		102.0946	102.0946	2.3800e-003	2.4900e-003	102.8972

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8277					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2278	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758
Total	12.0555	1.5273	2.4122	3.9600e-003		0.0687	0.0687		0.0687	0.0687	0.0000	375.2641	375.2641	0.0205		375.7758

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.21 Phase 4 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0379	0.0209	0.2887	9.6000e-004	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		102.0946	102.0946	2.3800e-003	2.4900e-003	102.8972
Total	0.0379	0.0209	0.2887	9.6000e-004	0.1314	5.8000e-004	0.1320	0.0349	5.3000e-004	0.0354		102.0946	102.0946	2.3800e-003	2.4900e-003	102.8972

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.0092	17.0026	158.7347	0.3246	42.1730	0.2276	42.4007	11.2326	0.2123	11.4450		34,983.5733	34,983.5733	2.4971	1.5607	35,511.0783
Unmitigated	17.0092	17.0026	158.7347	0.3246	42.1730	0.2276	42.4007	11.2326	0.2123	11.4450		34,983.5733	34,983.5733	2.4971	1.5607	35,511.0783

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking Structure	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Research & Development	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707
Total	7,995.12	1,898.84	1,109.32	15,389,707	15,389,707

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking Structure	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
Parking Lot	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Research & Development	0.575453	0.061728	0.171227	0.112384	0.022882	0.006522	0.009800	0.006298	0.000679	0.000623	0.027611	0.000857	0.003936
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
NaturalGas Unmitigated	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	31542.4	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Total		0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Research & Development	31.5424	0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214
Total		0.3402	3.0924	2.5976	0.0186		0.2350	0.2350		0.2350	0.2350		3,710.8696	3,710.8696	0.0711	0.0680	3,732.9214

6.0 Area Detail

6.1 Mitigation Measures Area

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Unmitigated	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.5529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7727					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Total	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.5529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7727					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676
Total	28.3606	3.4300e-003	0.3791	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003		0.8147	0.8147	2.1200e-003		0.8676

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Towne Centre View - San Diego County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	0.5	100	2346	0.73	Diesel
Emergency Generator	2	0.5	100	2923	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	2	150	27000	15	CNG
Boiler	3	150	27000	16	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Boiler - CNG (5 - 75 MMBTU)	4.0442	8.2501	72.0601	0.4412		5.5883	5.5883		5.5883	5.5883		88,236.8017	88,236.8017	1.6912		88,279.0818
Emergency Generator - Diesel (750 - 9999 HP)	12.4967	55.8846	31.8640	0.0601		1.8383	1.8383		1.8383	1.8383		6,392.9000	6,392.9000	0.8963		6,415.3072
Total	16.5409	64.1347	103.9241	0.5012		7.4266	7.4266		7.4266	7.4266		94,629.7017	94,629.7017	2.5875		94,694.3890

11.0 Vegetation

Emissions	Phase	Lb/Day	# Days	Emissions	Avg/Lb Day	Avg/Hourly
On-Site	Ph1 Utilities	0.2536	181	45.9016	0.2536	0.0317
Exhaust PM-10	Ph1 Grading	1.9081	100	190.81	1.9081	0.2385125
	Ph1 Building Construction	0.7564	550	416.0016667	0.756366667	0.094545833
	Ph1 Paving	0.4894	181	88.57235	0.48935	0.06116875
	Demo Existing	1.3185	76	100.206	1.3185	0.1648125
	Ph1 Site Preparation	1.4976	226	338.4576	1.4976	0.1872
	Ph1 Architectural Coating	0.0812	121	9.8252	0.0812	0.01015
	Ph2 Grading	1.3354	30	40.062	1.3354	0.166925
	Ph2 Building Construction	0.5953	354	210.7362	0.5953	0.0744125
	Ph3 Grading	1.1309	61	68.9849	1.1309	0.1413625
	Ph3 Building Construction	0.5647	548	309.4556	0.5647	0.0705875
	Ph2 Architectural Coating	0.0687	53	3.6411	0.0687	0.0085875
	Ph3 Paving	0.4185	212	88.722	0.4185	0.0523125
	Ph4 Grading	1.1309	10	11.309	1.1309	0.1413625
	Ph4 Building Construction	0.5647	428	241.6916	0.5647	0.0705875
	Ph3 Site Preparation	1.0868	202	219.5336	1.0868	0.13585
	Ph4 Demo	0.8528	25	21.32	0.8528	0.1066
	Building E Grading	1.1309	25	28.2725	1.1309	0.1413625
	Ph3 Architectural Coating	0.0687	79	5.4273	0.0687	0.0085875
	Ph4 Architectural Coating	0.0687	129	8.8623	0.0687	0.0085875

15.32 1499 2447.792517 1.632950311 0.204118789

Off-Site	Ph1 Utilities	4.70E-04	181	0.08507	0.00047	0.00005875
Exhaust PM-10	Ph1 Grading	2.91E-01	100	29.1	0.291	0.036375
	Ph1 Building Construction	2.02E-02	550	11.09166667	0.020166667	0.002520833
	Ph1 Paving	6.45E-04	181	0.116745	0.000645	0.000080625
	Demo Existing	1.91E-02	76	1.4516	0.0191	0.0023875
	Ph1 Site Preparation	7.80E-04	226	0.17628	0.00078	0.0000975
	Ph1 Architectural Coating	8.80E-04	121	0.10648	0.00088	0.00011
	Ph2 Grading	1.01E-01	30	3.039	0.1013	0.0126625
	Ph2 Building Construction	1.68E-02	354	5.9354	0.016766667	0.002095833
	Ph3 Grading	2.72E-01	61	16.5859	0.2719	0.0339875
	Ph3 Building Construction	1.58E-02	548	8.6584	0.0158	0.001975
	Ph2 Architectural Coating	9.45E-04	53	0.050085	0.000945	0.000118125
	Ph3 Paving	5.80E-04	212	0.12296	0.00058	0.0000725
	Ph4 Grading	2.23E-01	10	2.234	0.2234	0.027925
	Ph4 Building Construction	1.10E-02	428	4.6866	0.01095	0.00136875
	Ph3 Site Preparation	6.70E-04	202	0.13534	0.00067	0.00008375
	Ph4 Demo	1.43E-02	25	0.3575	0.0143	0.0017875
	Building E Grading	7.20E-04	25	0.018	0.00072	0.00009
	Ph3 Architectural Coating	8.30E-04	79	0.06557	0.00083	0.00010375
	Ph4 Architectural Coating	5.80E-04	129	0.07482	0.00058	0.0000725

9.92E-01 1499 84.09141667 0.056098343 0.007012293

Phase	Start Date	End Date	No. Days
Ph1 Utilities	4/4/2022	12/19/2022	181
Ph1 Grading	5/14/2022	10/5/2022	100
Ph1 Building Construction	10/6/2022	12/5/2024	550
Ph1 Paving	4/28/2023	1/16/2024	181
Demo Existing	8/31/2023	12/19/2023	76
Ph1 Site Preparation	12/18/2023	11/4/2024	226
Ph1 Architectural Coating	5/15/2024	11/4/2024	121
Ph2 Grading	7/8/2024	8/16/2024	30
Ph2 Building Construction	8/17/2024	1/12/2026	354
Ph3 Grading	2/11/2025	5/6/2025	61
Ph3 Building Construction	5/7/2025	7/2/2027	548
Ph2 Architectural Coating	10/24/2025	1/12/2026	53
Ph3 Paving	2/23/2026	12/14/2026	212
Ph4 Grading	4/9/2026	4/22/2026	10
Ph4 Building Construction	4/23/2026	12/30/2027	428
Ph3 Site Preparation	9/17/2026	7/2/2027	202
Ph4 Demo	2/16/2027	3/22/2027	25
Building E Grading	2/16/2027	3/22/2027	25
Ph3 Architectural Coating	3/15/2027	7/2/2027	79
Ph4 Architectural Coating	6/26/2027	12/30/2027	129
Total Days of Construction			1499

APPENDIX 2.2:
EMFAC EMISSIONS SUMMARY

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**AVERAGE EMISSION FACTOR
SAN DIEGO COUNTY 2028**

Speed	LHD1	LHD2	MHD	HHD
0	0.337949	0.549342	0.03158	0.01219
5	0.033371	0.046484	0.020101	0.01207
25	0.015665	0.022734	0.005618	0.00564

Speed	Weighted Average Emissions
0	0.25611
5	0.02939
25	0.01309

Truck Emission Rates						
Source	Trucks Per Day	VMT ^a (miles/day)	Truck Emission Rate ^b (grams/mile)	Truck Emission Rate ^b (grams/idle-hour)	Daily Truck Emissions ^c (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling	36			0.2561	2.30	2.661E-05
On-Site Idling	36			0.2561	2.30	2.661E-05
On-Site Idling	36			0.2561	2.30	2.661E-05
On-Site Idling	36			0.2561	2.30	2.661E-05
On-Site Idling	36			0.2561	2.30	2.661E-05
On-Site Travel	90	17.15	0.0294		0.50	5.832E-06
On-Site Travel	90	6.38	0.0294		0.19	2.169E-06
On-Site Travel	90	5.68	0.0294		0.17	1.931E-06
On-Site Travel	90	19.11	0.0294		0.56	6.500E-06
Off-Site Travel - 100% Inbound/Outbound	359	604.39	0.0131		7.91	9.159E-05

^a Vehicle miles traveled are for modeled truck route only.

^b Emission rates determined using EMFAC 2021. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

^c This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: San Diego (SD)

Calendar Year: 2028

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar	Vehicle C	Model Year	Speed	Fuel	Population
San Diego	2028	HHDT	Aggregate	Aggregate	Gasoline	4.50156
San Diego	2028	HHDT	Aggregate	Aggregate	Diesel	15874.5
San Diego	2028	HHDT	Aggregate	Aggregate	Natural Gas	1278.36
San Diego	2028	LHDT1	Aggregate	Aggregate	Gasoline	39934.9
San Diego	2028	LHDT1	Aggregate	Aggregate	Diesel	29666.5
San Diego	2028	LHDT2	Aggregate	Aggregate	Gasoline	5755.92
San Diego	2028	LHDT2	Aggregate	Aggregate	Diesel	12421.9
San Diego	2028	MHDT	Aggregate	Aggregate	Gasoline	3256.18
San Diego	2028	MHDT	Aggregate	Aggregate	Diesel	18382
San Diego	2028	MHDT	Aggregate	Aggregate	Natural Gas	346.014

HHDT% GAS/NG	0.07477
HHDT% DSL	0.92523
LHDT1% GAS	0.57377
LHDT1% DSL	0.42623
LHDT2% GAS	0.31665
LHDT2% DSL	0.68335
MHDT% GAS	0.15048
MHDT% DSL	0.84952

APPENDIX 2.3:
AERMOD MODEL INPUT/OUTPUT

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```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 2/21/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13564 Towne Centre View\13564
Cons\13564 Cons.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13564 Towne Centre View\13564 C
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "13564 Cons.err"
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION VOL1      VOLUME      479639.671  3638956.738    101.310
LOCATION VOL2      VOLUME      479642.382  3638876.426    105.620
LOCATION VOL3      VOLUME      479722.693  3638859.604    102.310
LOCATION VOL4      VOLUME      479795.949  3638822.705    104.900
LOCATION VOL5      VOLUME      479670.057  3638772.239    105.910
LOCATION VOL6      VOLUME      479639.126  3638709.836    104.340
LOCATION VOL7      VOLUME      479740.600  3638710.378     99.920
LOCATION VOL8      VOLUME      479775.871  3638766.270    106.630
LOCATION VOL9      VOLUME      479845.329  3638708.750    107.660
LOCATION VOL10     VOLUME      479949.516  3638708.208     97.130
LOCATION VOL11     VOLUME      480014.633  3638709.836     95.400
LOCATION VOL12     VOLUME      479993.470  3638775.495    101.190
LOCATION VOL13     VOLUME      479834.497  3638749.986    105.430
** -----

```

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE1

** DESCRSRC

** PREFIX

** Length of Side = 14.00

** Configuration = Adjacent

** Emission Rate = 0.0008835341

** Vertical Dimension = 6.99

** SZINIT = 3.25

** Nodes = 24

** 481510.839, 3637492.409, 119.87, 3.49, 6.51

** 480851.142, 3637383.096, 88.72, 3.49, 6.51

** 480596.565, 3637342.798, 112.85, 3.49, 6.51

** 480590.808, 3637376.699, 113.63, 3.49, 6.51

** 480586.970, 3637456.015, 120.41, 3.49, 6.51

** 480582.493, 3637527.015, 111.71, 3.49, 6.51

** 480585.051, 3637624.241, 117.80, 3.49, 6.51

** 480587.610, 3637736.817, 119.66, 3.49, 6.51

** 480583.132, 3637816.133, 122.97, 3.49, 6.51

** 480565.862, 3637903.764, 125.42, 3.49, 6.51

** 480478.231, 3638176.251, 128.03, 3.49, 6.51

** 480440.874, 3638296.170, 128.75, 3.49, 6.51

** 480410.789, 3638373.369, 129.76, 3.49, 6.51

** 480380.704, 3638427.578, 129.92, 3.49, 6.51

** 480321.319, 3638500.594, 129.22, 3.49, 6.51

** 480273.309, 3638539.678, 127.85, 3.49, 6.51

** 480216.613, 3638573.937, 123.01, 3.49, 6.51

** 480163.294, 3638606.266, 118.09, 3.49, 6.51

** 480101.773, 3638637.871, 112.27, 3.49, 6.51

** 480069.685, 3638642.696, 107.59, 3.49, 6.51

** 479993.688, 3638645.350, 109.71, 3.49, 6.51

** 479931.926, 3638647.521, 110.54, 3.49, 6.51

** 479830.597, 3638649.934, 99.25, 3.49, 6.51

** 479793.684, 3638652.587, 96.66, 3.49, 6.51

**

LOCATION	L000001	VOLUME	481503.933	3637491.264	119.01
LOCATION	L000002	VOLUME	481490.121	3637488.976	117.89
LOCATION	L000003	VOLUME	481476.309	3637486.687	116.33
LOCATION	L000004	VOLUME	481462.498	3637484.398	113.43
LOCATION	L000005	VOLUME	481448.686	3637482.110	110.67
LOCATION	L000006	VOLUME	481434.874	3637479.821	109.95
LOCATION	L000007	VOLUME	481421.063	3637477.533	108.47
LOCATION	L000008	VOLUME	481407.251	3637475.244	107.37
LOCATION	L000009	VOLUME	481393.439	3637472.955	106.21
LOCATION	L000010	VOLUME	481379.628	3637470.667	105.67
LOCATION	L000011	VOLUME	481365.816	3637468.378	105.71
LOCATION	L000012	VOLUME	481352.004	3637466.090	105.48
LOCATION	L000013	VOLUME	481338.193	3637463.801	104.74
LOCATION	L000014	VOLUME	481324.381	3637461.512	103.97
LOCATION	L000015	VOLUME	481310.569	3637459.224	103.41

LOCATION L0000016	VOLUME	481296.758	3637456.935	102.52
LOCATION L0000017	VOLUME	481282.946	3637454.646	99.23
LOCATION L0000018	VOLUME	481269.134	3637452.358	97.49
LOCATION L0000019	VOLUME	481255.323	3637450.069	94.18
LOCATION L0000020	VOLUME	481241.511	3637447.781	90.86
LOCATION L0000021	VOLUME	481227.699	3637445.492	87.51
LOCATION L0000022	VOLUME	481213.888	3637443.203	84.15
LOCATION L0000023	VOLUME	481200.076	3637440.915	89.16
LOCATION L0000024	VOLUME	481186.264	3637438.626	98.50
LOCATION L0000025	VOLUME	481172.453	3637436.337	102.00
LOCATION L0000026	VOLUME	481158.641	3637434.049	99.33
LOCATION L0000027	VOLUME	481144.829	3637431.760	98.37
LOCATION L0000028	VOLUME	481131.018	3637429.472	101.13
LOCATION L0000029	VOLUME	481117.206	3637427.183	104.31
LOCATION L0000030	VOLUME	481103.394	3637424.894	109.95
LOCATION L0000031	VOLUME	481089.583	3637422.606	114.93
LOCATION L0000032	VOLUME	481075.771	3637420.317	114.75
LOCATION L0000033	VOLUME	481061.959	3637418.029	114.55
LOCATION L0000034	VOLUME	481048.148	3637415.740	114.39
LOCATION L0000035	VOLUME	481034.336	3637413.451	114.29
LOCATION L0000036	VOLUME	481020.524	3637411.163	114.12
LOCATION L0000037	VOLUME	481006.713	3637408.874	113.89
LOCATION L0000038	VOLUME	480992.901	3637406.585	114.29
LOCATION L0000039	VOLUME	480979.089	3637404.297	115.48
LOCATION L0000040	VOLUME	480965.278	3637402.008	115.60
LOCATION L0000041	VOLUME	480951.466	3637399.720	112.71
LOCATION L0000042	VOLUME	480937.654	3637397.431	109.71
LOCATION L0000043	VOLUME	480923.843	3637395.142	107.92
LOCATION L0000044	VOLUME	480910.031	3637392.854	106.34
LOCATION L0000045	VOLUME	480896.219	3637390.565	102.35
LOCATION L0000046	VOLUME	480882.408	3637388.277	98.40
LOCATION L0000047	VOLUME	480868.596	3637385.988	93.73
LOCATION L0000048	VOLUME	480854.784	3637383.699	88.80
LOCATION L0000049	VOLUME	480840.961	3637381.484	90.22
LOCATION L0000050	VOLUME	480827.133	3637379.295	96.03
LOCATION L0000051	VOLUME	480813.305	3637377.106	99.66
LOCATION L0000052	VOLUME	480799.477	3637374.918	100.37
LOCATION L0000053	VOLUME	480785.649	3637372.729	102.22
LOCATION L0000054	VOLUME	480771.821	3637370.540	106.93
LOCATION L0000055	VOLUME	480757.994	3637368.351	111.33
LOCATION L0000056	VOLUME	480744.166	3637366.162	113.30
LOCATION L0000057	VOLUME	480730.338	3637363.974	114.65
LOCATION L0000058	VOLUME	480716.510	3637361.785	112.94
LOCATION L0000059	VOLUME	480702.682	3637359.596	110.86
LOCATION L0000060	VOLUME	480688.854	3637357.407	108.45
LOCATION L0000061	VOLUME	480675.027	3637355.218	105.83
LOCATION L0000062	VOLUME	480661.199	3637353.029	104.98
LOCATION L0000063	VOLUME	480647.371	3637350.841	105.60
LOCATION L0000064	VOLUME	480633.543	3637348.652	106.58
LOCATION L0000065	VOLUME	480619.715	3637346.463	108.31

LOCATION L000066	VOLUME	480605.887	3637344.274	110.65
LOCATION L000067	VOLUME	480595.801	3637347.295	112.58
LOCATION L000068	VOLUME	480593.458	3637361.098	112.68
LOCATION L000069	VOLUME	480591.114	3637374.900	114.04
LOCATION L000070	VOLUME	480590.220	3637388.860	115.90
LOCATION L000071	VOLUME	480589.543	3637402.844	117.22
LOCATION L000072	VOLUME	480588.867	3637416.828	118.06
LOCATION L000073	VOLUME	480588.190	3637430.811	118.63
LOCATION L000074	VOLUME	480587.513	3637444.795	118.65
LOCATION L000075	VOLUME	480586.796	3637458.776	119.72
LOCATION L000076	VOLUME	480585.915	3637472.748	118.39
LOCATION L000077	VOLUME	480585.034	3637486.721	116.90
LOCATION L000078	VOLUME	480584.153	3637500.693	114.03
LOCATION L000079	VOLUME	480583.272	3637514.665	111.18
LOCATION L000080	VOLUME	480582.536	3637528.640	111.80
LOCATION L000081	VOLUME	480582.904	3637542.635	112.73
LOCATION L000082	VOLUME	480583.272	3637556.630	114.17
LOCATION L000083	VOLUME	480583.641	3637570.626	115.84
LOCATION L000084	VOLUME	480584.009	3637584.621	116.83
LOCATION L000085	VOLUME	480584.377	3637598.616	117.35
LOCATION L000086	VOLUME	480584.745	3637612.611	117.58
LOCATION L000087	VOLUME	480585.105	3637626.606	117.46
LOCATION L000088	VOLUME	480585.423	3637640.603	117.48
LOCATION L000089	VOLUME	480585.741	3637654.599	117.81
LOCATION L000090	VOLUME	480586.059	3637668.596	118.11
LOCATION L000091	VOLUME	480586.378	3637682.592	118.30
LOCATION L000092	VOLUME	480586.696	3637696.588	118.51
LOCATION L000093	VOLUME	480587.014	3637710.585	118.95
LOCATION L000094	VOLUME	480587.332	3637724.581	119.40
LOCATION L000095	VOLUME	480587.511	3637738.575	119.85
LOCATION L000096	VOLUME	480586.722	3637752.553	120.37
LOCATION L000097	VOLUME	480585.933	3637766.531	120.97
LOCATION L000098	VOLUME	480585.144	3637780.508	121.57
LOCATION L000099	VOLUME	480584.354	3637794.486	122.10
LOCATION L000100	VOLUME	480583.565	3637808.464	122.59
LOCATION L000101	VOLUME	480581.911	3637822.332	122.91
LOCATION L000102	VOLUME	480579.204	3637836.068	123.00
LOCATION L000103	VOLUME	480576.497	3637849.804	123.28
LOCATION L000104	VOLUME	480573.790	3637863.540	123.83
LOCATION L000105	VOLUME	480571.082	3637877.276	124.30
LOCATION L000106	VOLUME	480568.375	3637891.011	124.85
LOCATION L000107	VOLUME	480565.555	3637904.718	125.40
LOCATION L000108	VOLUME	480561.269	3637918.046	125.59
LOCATION L000109	VOLUME	480556.983	3637931.373	125.74
LOCATION L000110	VOLUME	480552.697	3637944.701	125.88
LOCATION L000111	VOLUME	480548.411	3637958.029	126.02
LOCATION L000112	VOLUME	480544.125	3637971.357	126.19
LOCATION L000113	VOLUME	480539.838	3637984.684	126.50
LOCATION L000114	VOLUME	480535.552	3637998.012	126.94
LOCATION L000115	VOLUME	480531.266	3638011.340	127.39

LOCATION L0000116	VOLUME	480526.980	3638024.668	127.72
LOCATION L0000117	VOLUME	480522.694	3638037.995	127.88
LOCATION L0000118	VOLUME	480518.408	3638051.323	128.00
LOCATION L0000119	VOLUME	480514.121	3638064.651	128.00
LOCATION L0000120	VOLUME	480509.835	3638077.979	128.00
LOCATION L0000121	VOLUME	480505.549	3638091.306	127.91
LOCATION L0000122	VOLUME	480501.263	3638104.634	127.75
LOCATION L0000123	VOLUME	480496.977	3638117.962	127.74
LOCATION L0000124	VOLUME	480492.691	3638131.290	127.88
LOCATION L0000125	VOLUME	480488.405	3638144.617	128.00
LOCATION L0000126	VOLUME	480484.118	3638157.945	128.00
LOCATION L0000127	VOLUME	480479.832	3638171.273	128.00
LOCATION L0000128	VOLUME	480475.623	3638184.625	128.13
LOCATION L0000129	VOLUME	480471.459	3638197.991	128.43
LOCATION L0000130	VOLUME	480467.295	3638211.358	128.60
LOCATION L0000131	VOLUME	480463.131	3638224.724	128.33
LOCATION L0000132	VOLUME	480458.967	3638238.091	128.07
LOCATION L0000133	VOLUME	480454.803	3638251.457	128.58
LOCATION L0000134	VOLUME	480450.639	3638264.823	128.97
LOCATION L0000135	VOLUME	480446.475	3638278.190	128.77
LOCATION L0000136	VOLUME	480442.311	3638291.556	128.63
LOCATION L0000137	VOLUME	480437.545	3638304.712	128.72
LOCATION L0000138	VOLUME	480432.461	3638317.756	128.89
LOCATION L0000139	VOLUME	480427.378	3638330.801	129.06
LOCATION L0000140	VOLUME	480422.294	3638343.845	129.23
LOCATION L0000141	VOLUME	480417.211	3638356.890	129.40
LOCATION L0000142	VOLUME	480412.127	3638369.934	129.57
LOCATION L0000143	VOLUME	480405.784	3638382.387	129.78
LOCATION L0000144	VOLUME	480398.991	3638394.628	130.00
LOCATION L0000145	VOLUME	480392.197	3638406.869	130.00
LOCATION L0000146	VOLUME	480385.403	3638419.111	130.04
LOCATION L0000147	VOLUME	480377.981	3638430.926	130.34
LOCATION L0000148	VOLUME	480369.147	3638441.788	130.85
LOCATION L0000149	VOLUME	480360.314	3638452.649	130.56
LOCATION L0000150	VOLUME	480351.480	3638463.510	130.17
LOCATION L0000151	VOLUME	480342.646	3638474.371	130.01
LOCATION L0000152	VOLUME	480333.813	3638485.233	129.82
LOCATION L0000153	VOLUME	480324.979	3638496.094	129.53
LOCATION L0000154	VOLUME	480314.960	3638505.771	129.19
LOCATION L0000155	VOLUME	480304.103	3638514.609	129.06
LOCATION L0000156	VOLUME	480293.246	3638523.448	128.74
LOCATION L0000157	VOLUME	480282.389	3638532.286	128.20
LOCATION L0000158	VOLUME	480271.347	3638540.863	127.26
LOCATION L0000159	VOLUME	480259.365	3638548.104	126.28
LOCATION L0000160	VOLUME	480247.382	3638555.344	125.48
LOCATION L0000161	VOLUME	480235.400	3638562.584	124.56
LOCATION L0000162	VOLUME	480223.418	3638569.825	123.41
LOCATION L0000163	VOLUME	480211.440	3638577.073	122.40
LOCATION L0000164	VOLUME	480199.469	3638584.332	121.29
LOCATION L0000165	VOLUME	480187.497	3638591.590	120.04

LOCATION	L0000166	VOLUME	480175.526	3638598.849	119.05
LOCATION	L0000167	VOLUME	480163.555	3638606.108	118.02
LOCATION	L0000168	VOLUME	480151.112	3638612.524	116.78
LOCATION	L0000169	VOLUME	480138.660	3638618.921	115.36
LOCATION	L0000170	VOLUME	480126.207	3638625.318	113.87
LOCATION	L0000171	VOLUME	480113.754	3638631.716	112.34
LOCATION	L0000172	VOLUME	480101.248	3638637.950	110.94
LOCATION	L0000173	VOLUME	480087.404	3638640.031	109.69
LOCATION	L0000174	VOLUME	480073.560	3638642.113	108.21
LOCATION	L0000175	VOLUME	480059.609	3638643.048	108.49
LOCATION	L0000176	VOLUME	480045.618	3638643.536	109.68
LOCATION	L0000177	VOLUME	480031.626	3638644.025	110.03
LOCATION	L0000178	VOLUME	480017.635	3638644.513	109.58
LOCATION	L0000179	VOLUME	480003.643	3638645.002	109.59
LOCATION	L0000180	VOLUME	479989.652	3638645.492	110.40
LOCATION	L0000181	VOLUME	479975.661	3638645.983	111.10
LOCATION	L0000182	VOLUME	479961.669	3638646.475	111.38
LOCATION	L0000183	VOLUME	479947.678	3638646.967	111.61
LOCATION	L0000184	VOLUME	479933.687	3638647.459	110.83
LOCATION	L0000185	VOLUME	479919.691	3638647.812	110.03
LOCATION	L0000186	VOLUME	479905.695	3638648.146	109.43
LOCATION	L0000187	VOLUME	479891.699	3638648.479	108.85
LOCATION	L0000188	VOLUME	479877.703	3638648.812	106.94
LOCATION	L0000189	VOLUME	479863.707	3638649.145	104.73
LOCATION	L0000190	VOLUME	479849.711	3638649.479	102.57
LOCATION	L0000191	VOLUME	479835.715	3638649.812	100.43
LOCATION	L0000192	VOLUME	479821.739	3638650.570	98.47
LOCATION	L0000193	VOLUME	479807.775	3638651.574	96.89
LOCATION	L0000194	VOLUME	479793.811	3638652.578	95.90

** End of LINE VOLUME Source ID = SLINE1

** Source Parameters **

SRCPARAM	VOL1	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL2	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL3	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL4	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL5	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL6	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL7	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL8	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL9	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL10	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL11	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL12	0.0019783488	5.000	24.230	1.400
SRCPARAM	VOL13	0.0019783488	5.000	24.230	1.400

** LINE VOLUME Source ID = SLINE1

SRCPARAM	L0000001	0.000004554	3.49	6.51	3.25
SRCPARAM	L0000002	0.000004554	3.49	6.51	3.25
SRCPARAM	L0000003	0.000004554	3.49	6.51	3.25
SRCPARAM	L0000004	0.000004554	3.49	6.51	3.25
SRCPARAM	L0000005	0.000004554	3.49	6.51	3.25

SRCPARAM L0000156	0.000004554	3.49	6.51	3.25
SRCPARAM L0000157	0.000004554	3.49	6.51	3.25
SRCPARAM L0000158	0.000004554	3.49	6.51	3.25
SRCPARAM L0000159	0.000004554	3.49	6.51	3.25
SRCPARAM L0000160	0.000004554	3.49	6.51	3.25
SRCPARAM L0000161	0.000004554	3.49	6.51	3.25
SRCPARAM L0000162	0.000004554	3.49	6.51	3.25
SRCPARAM L0000163	0.000004554	3.49	6.51	3.25
SRCPARAM L0000164	0.000004554	3.49	6.51	3.25
SRCPARAM L0000165	0.000004554	3.49	6.51	3.25
SRCPARAM L0000166	0.000004554	3.49	6.51	3.25
SRCPARAM L0000167	0.000004554	3.49	6.51	3.25
SRCPARAM L0000168	0.000004554	3.49	6.51	3.25
SRCPARAM L0000169	0.000004554	3.49	6.51	3.25
SRCPARAM L0000170	0.000004554	3.49	6.51	3.25
SRCPARAM L0000171	0.000004554	3.49	6.51	3.25
SRCPARAM L0000172	0.000004554	3.49	6.51	3.25
SRCPARAM L0000173	0.000004554	3.49	6.51	3.25
SRCPARAM L0000174	0.000004554	3.49	6.51	3.25
SRCPARAM L0000175	0.000004554	3.49	6.51	3.25
SRCPARAM L0000176	0.000004554	3.49	6.51	3.25
SRCPARAM L0000177	0.000004554	3.49	6.51	3.25
SRCPARAM L0000178	0.000004554	3.49	6.51	3.25
SRCPARAM L0000179	0.000004554	3.49	6.51	3.25
SRCPARAM L0000180	0.000004554	3.49	6.51	3.25
SRCPARAM L0000181	0.000004554	3.49	6.51	3.25
SRCPARAM L0000182	0.000004554	3.49	6.51	3.25
SRCPARAM L0000183	0.000004554	3.49	6.51	3.25
SRCPARAM L0000184	0.000004554	3.49	6.51	3.25
SRCPARAM L0000185	0.000004554	3.49	6.51	3.25
SRCPARAM L0000186	0.000004554	3.49	6.51	3.25
SRCPARAM L0000187	0.000004554	3.49	6.51	3.25
SRCPARAM L0000188	0.000004554	3.49	6.51	3.25
SRCPARAM L0000189	0.000004554	3.49	6.51	3.25
SRCPARAM L0000190	0.000004554	3.49	6.51	3.25
SRCPARAM L0000191	0.000004554	3.49	6.51	3.25
SRCPARAM L0000192	0.000004554	3.49	6.51	3.25
SRCPARAM L0000193	0.000004554	3.49	6.51	3.25
SRCPARAM L0000194	0.000004554	3.49	6.51	3.25

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** Variable Emissions Type: "By Hour / Day (HRDOW)"

** Variable Emission Scenario: "Scenario 1"

** WeekDays:

EMISFACT VOL1	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL1	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL1	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

** Saturday:

EMISFACT VOL1	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT VOL1	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL1	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL1	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL2	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL2	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL3	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL3	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL4	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL4	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

EMISFACT VOL8	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL8	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL8	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL8	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL8	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL8	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL8	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL8	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL8	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL8	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL8	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL9	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL9	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL9	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL9	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL9	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL9	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL10	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL10	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL10	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL10	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL10	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL10	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL11	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL11	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL11	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL11	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

EMISFACT VOL11	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL11	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL11	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL12	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL12	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL12	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL12	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL12	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL12	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT VOL13	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL13	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT VOL13	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT VOL13	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:	
EMISFACT VOL13	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL13	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL13	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL13	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:	
EMISFACT VOL13	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL13	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL13	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL13	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:	
EMISFACT L0000001	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000001	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000001	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000001	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000002	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000002	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
EMISFACT L0000002	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000003	HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000003	HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT L0000003	HRDOW 1.0 1.0 1.0 1.0 0.0 0.0

EMISFACT L0000190 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000190 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000190 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000191 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000191 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000191 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000191 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000191 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000192 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000192 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000192 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000192 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000192 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000193 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000193 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000193 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000193 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000194 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000194 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000194 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "13564 Cons.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE 722931.SFC

PROFFILE 722931.PFL

SURFDATA 93107 2009

UAIRDATA 3190 2009

PROFBASE 145.4 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles
PLOTFILE ANNUAL ALL "13564 Cons.AD\AN00GALL.PLT" 31
SUMMFILE "13564 Cons.sum"
OU FINISHED

*** SETUP Finishes Successfully ***

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses RURAL Dispersion Only.
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: DPM

**Model Calculates ANNUAL Averages Only

**This Run Includes: 207 Source(s); 1 Source Group(s); and 95
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 207 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)

and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing

Hours

b for Both Calm

and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 145.40 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.7 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 13564 Cons.err

**File for Summary of Results: 13564 Cons.sum

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT. SZ	URBAN SOURCE ID (METERS)	NUMBER EMISSION RATE PART. SCALAR CATS. BY	EMISSION RATE (GRAMS/SEC) VARY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)
VOL1		0	0.19783E-02	479639.7	3638956.7	101.3	5.00	24.23
1.40	NO	HRDOW						
VOL2		0	0.19783E-02	479642.4	3638876.4	105.6	5.00	24.23
1.40	NO	HRDOW						
VOL3		0	0.19783E-02	479722.7	3638859.6	102.3	5.00	24.23
1.40	NO	HRDOW						
VOL4		0	0.19783E-02	479795.9	3638822.7	104.9	5.00	24.23
1.40	NO	HRDOW						
VOL5		0	0.19783E-02	479670.1	3638772.2	105.9	5.00	24.23
1.40	NO	HRDOW						
VOL6		0	0.19783E-02	479639.1	3638709.8	104.3	5.00	24.23
1.40	NO	HRDOW						
VOL7		0	0.19783E-02	479740.6	3638710.4	99.9	5.00	24.23
1.40	NO	HRDOW						
VOL8		0	0.19783E-02	479775.9	3638766.3	106.6	5.00	24.23
1.40	NO	HRDOW						
VOL9		0	0.19783E-02	479845.3	3638708.8	107.7	5.00	24.23
1.40	NO	HRDOW						
VOL10		0	0.19783E-02	479949.5	3638708.2	97.1	5.00	24.23
1.40	NO	HRDOW						
VOL11		0	0.19783E-02	480014.6	3638709.8	95.4	5.00	24.23
1.40	NO	HRDOW						
VOL12		0	0.19783E-02	479993.5	3638775.5	101.2	5.00	24.23
1.40	NO	HRDOW						
VOL13		0	0.19783E-02	479834.5	3638750.0	105.4	5.00	24.23
1.40	NO	HRDOW						
L0000001		0	0.45540E-05	481503.9	3637491.3	119.0	3.49	6.51
3.25	NO	HRDOW						
L0000002		0	0.45540E-05	481490.1	3637489.0	117.9	3.49	6.51
3.25	NO	HRDOW						
L0000003		0	0.45540E-05	481476.3	3637486.7	116.3	3.49	6.51
3.25	NO	HRDOW						
L0000004		0	0.45540E-05	481462.5	3637484.4	113.4	3.49	6.51
3.25	NO	HRDOW						
L0000005		0	0.45540E-05	481448.7	3637482.1	110.7	3.49	6.51
3.25	NO	HRDOW						
L0000006		0	0.45540E-05	481434.9	3637479.8	110.0	3.49	6.51
3.25	NO	HRDOW						
L0000007		0	0.45540E-05	481421.1	3637477.5	108.5	3.49	6.51
3.25	NO	HRDOW						

L0000008	0	0.45540E-05	481407.3	3637475.2	107.4	3.49	6.51
3.25	NO	HRDOW					
L0000009	0	0.45540E-05	481393.4	3637473.0	106.2	3.49	6.51
3.25	NO	HRDOW					
L0000010	0	0.45540E-05	481379.6	3637470.7	105.7	3.49	6.51
3.25	NO	HRDOW					
L0000011	0	0.45540E-05	481365.8	3637468.4	105.7	3.49	6.51
3.25	NO	HRDOW					
L0000012	0	0.45540E-05	481352.0	3637466.1	105.5	3.49	6.51
3.25	NO	HRDOW					
L0000013	0	0.45540E-05	481338.2	3637463.8	104.7	3.49	6.51
3.25	NO	HRDOW					
L0000014	0	0.45540E-05	481324.4	3637461.5	104.0	3.49	6.51
3.25	NO	HRDOW					
L0000015	0	0.45540E-05	481310.6	3637459.2	103.4	3.49	6.51
3.25	NO	HRDOW					
L0000016	0	0.45540E-05	481296.8	3637456.9	102.5	3.49	6.51
3.25	NO	HRDOW					
L0000017	0	0.45540E-05	481282.9	3637454.6	99.2	3.49	6.51
3.25	NO	HRDOW					
L0000018	0	0.45540E-05	481269.1	3637452.4	97.5	3.49	6.51
3.25	NO	HRDOW					
L0000019	0	0.45540E-05	481255.3	3637450.1	94.2	3.49	6.51
3.25	NO	HRDOW					
L0000020	0	0.45540E-05	481241.5	3637447.8	90.9	3.49	6.51
3.25	NO	HRDOW					
L0000021	0	0.45540E-05	481227.7	3637445.5	87.5	3.49	6.51
3.25	NO	HRDOW					
L0000022	0	0.45540E-05	481213.9	3637443.2	84.1	3.49	6.51
3.25	NO	HRDOW					
L0000023	0	0.45540E-05	481200.1	3637440.9	89.2	3.49	6.51
3.25	NO	HRDOW					
L0000024	0	0.45540E-05	481186.3	3637438.6	98.5	3.49	6.51
3.25	NO	HRDOW					
L0000025	0	0.45540E-05	481172.5	3637436.3	102.0	3.49	6.51
3.25	NO	HRDOW					
L0000026	0	0.45540E-05	481158.6	3637434.0	99.3	3.49	6.51
3.25	NO	HRDOW					
L0000027	0	0.45540E-05	481144.8	3637431.8	98.4	3.49	6.51
3.25	NO	HRDOW					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	SY
(METERS)	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)
		CATS.	BY		(METERS)	(METERS)	(METERS)

L0000028		0	0.45540E-05	481131.0	3637429.5	101.1	3.49	6.51
3.25	NO	HRDOW						
L0000029		0	0.45540E-05	481117.2	3637427.2	104.3	3.49	6.51
3.25	NO	HRDOW						
L0000030		0	0.45540E-05	481103.4	3637424.9	110.0	3.49	6.51
3.25	NO	HRDOW						
L0000031		0	0.45540E-05	481089.6	3637422.6	114.9	3.49	6.51
3.25	NO	HRDOW						
L0000032		0	0.45540E-05	481075.8	3637420.3	114.8	3.49	6.51
3.25	NO	HRDOW						
L0000033		0	0.45540E-05	481062.0	3637418.0	114.5	3.49	6.51
3.25	NO	HRDOW						
L0000034		0	0.45540E-05	481048.1	3637415.7	114.4	3.49	6.51
3.25	NO	HRDOW						
L0000035		0	0.45540E-05	481034.3	3637413.5	114.3	3.49	6.51
3.25	NO	HRDOW						
L0000036		0	0.45540E-05	481020.5	3637411.2	114.1	3.49	6.51
3.25	NO	HRDOW						
L0000037		0	0.45540E-05	481006.7	3637408.9	113.9	3.49	6.51
3.25	NO	HRDOW						
L0000038		0	0.45540E-05	480992.9	3637406.6	114.3	3.49	6.51
3.25	NO	HRDOW						
L0000039		0	0.45540E-05	480979.1	3637404.3	115.5	3.49	6.51
3.25	NO	HRDOW						
L0000040		0	0.45540E-05	480965.3	3637402.0	115.6	3.49	6.51
3.25	NO	HRDOW						
L0000041		0	0.45540E-05	480951.5	3637399.7	112.7	3.49	6.51
3.25	NO	HRDOW						
L0000042		0	0.45540E-05	480937.7	3637397.4	109.7	3.49	6.51
3.25	NO	HRDOW						
L0000043		0	0.45540E-05	480923.8	3637395.1	107.9	3.49	6.51
3.25	NO	HRDOW						
L0000044		0	0.45540E-05	480910.0	3637392.9	106.3	3.49	6.51
3.25	NO	HRDOW						
L0000045		0	0.45540E-05	480896.2	3637390.6	102.3	3.49	6.51
3.25	NO	HRDOW						
L0000046		0	0.45540E-05	480882.4	3637388.3	98.4	3.49	6.51
3.25	NO	HRDOW						
L0000047		0	0.45540E-05	480868.6	3637386.0	93.7	3.49	6.51
3.25	NO	HRDOW						

L0000048	0	0.45540E-05	480854.8	3637383.7	88.8	3.49	6.51
3.25	NO	HRDOW					
L0000049	0	0.45540E-05	480841.0	3637381.5	90.2	3.49	6.51
3.25	NO	HRDOW					
L0000050	0	0.45540E-05	480827.1	3637379.3	96.0	3.49	6.51
3.25	NO	HRDOW					
L0000051	0	0.45540E-05	480813.3	3637377.1	99.7	3.49	6.51
3.25	NO	HRDOW					
L0000052	0	0.45540E-05	480799.5	3637374.9	100.4	3.49	6.51
3.25	NO	HRDOW					
L0000053	0	0.45540E-05	480785.6	3637372.7	102.2	3.49	6.51
3.25	NO	HRDOW					
L0000054	0	0.45540E-05	480771.8	3637370.5	106.9	3.49	6.51
3.25	NO	HRDOW					
L0000055	0	0.45540E-05	480758.0	3637368.4	111.3	3.49	6.51
3.25	NO	HRDOW					
L0000056	0	0.45540E-05	480744.2	3637366.2	113.3	3.49	6.51
3.25	NO	HRDOW					
L0000057	0	0.45540E-05	480730.3	3637364.0	114.6	3.49	6.51
3.25	NO	HRDOW					
L0000058	0	0.45540E-05	480716.5	3637361.8	112.9	3.49	6.51
3.25	NO	HRDOW					
L0000059	0	0.45540E-05	480702.7	3637359.6	110.9	3.49	6.51
3.25	NO	HRDOW					
L0000060	0	0.45540E-05	480688.9	3637357.4	108.5	3.49	6.51
3.25	NO	HRDOW					
L0000061	0	0.45540E-05	480675.0	3637355.2	105.8	3.49	6.51
3.25	NO	HRDOW					
L0000062	0	0.45540E-05	480661.2	3637353.0	105.0	3.49	6.51
3.25	NO	HRDOW					
L0000063	0	0.45540E-05	480647.4	3637350.8	105.6	3.49	6.51
3.25	NO	HRDOW					
L0000064	0	0.45540E-05	480633.5	3637348.7	106.6	3.49	6.51
3.25	NO	HRDOW					
L0000065	0	0.45540E-05	480619.7	3637346.5	108.3	3.49	6.51
3.25	NO	HRDOW					
L0000066	0	0.45540E-05	480605.9	3637344.3	110.6	3.49	6.51
3.25	NO	HRDOW					
L0000067	0	0.45540E-05	480595.8	3637347.3	112.6	3.49	6.51
3.25	NO	HRDOW					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER EMISSION RATE	EMISSION RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION RATE	(GRAMS/SEC)	X	Y	SY
ID	SOURCE	SCALAR VARY		(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY			
L0000068		0	0.45540E-05	480593.5	3637361.1	6.51
3.25	NO	HRDOW				
L0000069		0	0.45540E-05	480591.1	3637374.9	6.51
3.25	NO	HRDOW				
L0000070		0	0.45540E-05	480590.2	3637388.9	6.51
3.25	NO	HRDOW				
L0000071		0	0.45540E-05	480589.5	3637402.8	6.51
3.25	NO	HRDOW				
L0000072		0	0.45540E-05	480588.9	3637416.8	6.51
3.25	NO	HRDOW				
L0000073		0	0.45540E-05	480588.2	3637430.8	6.51
3.25	NO	HRDOW				
L0000074		0	0.45540E-05	480587.5	3637444.8	6.51
3.25	NO	HRDOW				
L0000075		0	0.45540E-05	480586.8	3637458.8	6.51
3.25	NO	HRDOW				
L0000076		0	0.45540E-05	480585.9	3637472.7	6.51
3.25	NO	HRDOW				
L0000077		0	0.45540E-05	480585.0	3637486.7	6.51
3.25	NO	HRDOW				
L0000078		0	0.45540E-05	480584.2	3637500.7	6.51
3.25	NO	HRDOW				
L0000079		0	0.45540E-05	480583.3	3637514.7	6.51
3.25	NO	HRDOW				
L0000080		0	0.45540E-05	480582.5	3637528.6	6.51
3.25	NO	HRDOW				
L0000081		0	0.45540E-05	480582.9	3637542.6	6.51
3.25	NO	HRDOW				
L0000082		0	0.45540E-05	480583.3	3637556.6	6.51
3.25	NO	HRDOW				
L0000083		0	0.45540E-05	480583.6	3637570.6	6.51
3.25	NO	HRDOW				
L0000084		0	0.45540E-05	480584.0	3637584.6	6.51
3.25	NO	HRDOW				
L0000085		0	0.45540E-05	480584.4	3637598.6	6.51
3.25	NO	HRDOW				
L0000086		0	0.45540E-05	480584.7	3637612.6	6.51
3.25	NO	HRDOW				
L0000087		0	0.45540E-05	480585.1	3637626.6	6.51
3.25	NO	HRDOW				

L0000088	0	0.45540E-05	480585.4	3637640.6	117.5	3.49	6.51
3.25	NO	HRDOW					
L0000089	0	0.45540E-05	480585.7	3637654.6	117.8	3.49	6.51
3.25	NO	HRDOW					
L0000090	0	0.45540E-05	480586.1	3637668.6	118.1	3.49	6.51
3.25	NO	HRDOW					
L0000091	0	0.45540E-05	480586.4	3637682.6	118.3	3.49	6.51
3.25	NO	HRDOW					
L0000092	0	0.45540E-05	480586.7	3637696.6	118.5	3.49	6.51
3.25	NO	HRDOW					
L0000093	0	0.45540E-05	480587.0	3637710.6	119.0	3.49	6.51
3.25	NO	HRDOW					
L0000094	0	0.45540E-05	480587.3	3637724.6	119.4	3.49	6.51
3.25	NO	HRDOW					
L0000095	0	0.45540E-05	480587.5	3637738.6	119.8	3.49	6.51
3.25	NO	HRDOW					
L0000096	0	0.45540E-05	480586.7	3637752.6	120.4	3.49	6.51
3.25	NO	HRDOW					
L0000097	0	0.45540E-05	480585.9	3637766.5	121.0	3.49	6.51
3.25	NO	HRDOW					
L0000098	0	0.45540E-05	480585.1	3637780.5	121.6	3.49	6.51
3.25	NO	HRDOW					
L0000099	0	0.45540E-05	480584.4	3637794.5	122.1	3.49	6.51
3.25	NO	HRDOW					
L0000100	0	0.45540E-05	480583.6	3637808.5	122.6	3.49	6.51
3.25	NO	HRDOW					
L0000101	0	0.45540E-05	480581.9	3637822.3	122.9	3.49	6.51
3.25	NO	HRDOW					
L0000102	0	0.45540E-05	480579.2	3637836.1	123.0	3.49	6.51
3.25	NO	HRDOW					
L0000103	0	0.45540E-05	480576.5	3637849.8	123.3	3.49	6.51
3.25	NO	HRDOW					
L0000104	0	0.45540E-05	480573.8	3637863.5	123.8	3.49	6.51
3.25	NO	HRDOW					
L0000105	0	0.45540E-05	480571.1	3637877.3	124.3	3.49	6.51
3.25	NO	HRDOW					
L0000106	0	0.45540E-05	480568.4	3637891.0	124.8	3.49	6.51
3.25	NO	HRDOW					
L0000107	0	0.45540E-05	480565.6	3637904.7	125.4	3.49	6.51
3.25	NO	HRDOW					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
(METERS)	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
		CATS.	BY						

L0000108		0	0.45540E-05	480561.3	3637918.0	125.6	3.49	6.51
3.25	NO	HRDOW						
L0000109		0	0.45540E-05	480557.0	3637931.4	125.7	3.49	6.51
3.25	NO	HRDOW						
L0000110		0	0.45540E-05	480552.7	3637944.7	125.9	3.49	6.51
3.25	NO	HRDOW						
L0000111		0	0.45540E-05	480548.4	3637958.0	126.0	3.49	6.51
3.25	NO	HRDOW						
L0000112		0	0.45540E-05	480544.1	3637971.4	126.2	3.49	6.51
3.25	NO	HRDOW						
L0000113		0	0.45540E-05	480539.8	3637984.7	126.5	3.49	6.51
3.25	NO	HRDOW						
L0000114		0	0.45540E-05	480535.6	3637998.0	126.9	3.49	6.51
3.25	NO	HRDOW						
L0000115		0	0.45540E-05	480531.3	3638011.3	127.4	3.49	6.51
3.25	NO	HRDOW						
L0000116		0	0.45540E-05	480527.0	3638024.7	127.7	3.49	6.51
3.25	NO	HRDOW						
L0000117		0	0.45540E-05	480522.7	3638038.0	127.9	3.49	6.51
3.25	NO	HRDOW						
L0000118		0	0.45540E-05	480518.4	3638051.3	128.0	3.49	6.51
3.25	NO	HRDOW						
L0000119		0	0.45540E-05	480514.1	3638064.7	128.0	3.49	6.51
3.25	NO	HRDOW						
L0000120		0	0.45540E-05	480509.8	3638078.0	128.0	3.49	6.51
3.25	NO	HRDOW						
L0000121		0	0.45540E-05	480505.5	3638091.3	127.9	3.49	6.51
3.25	NO	HRDOW						
L0000122		0	0.45540E-05	480501.3	3638104.6	127.8	3.49	6.51
3.25	NO	HRDOW						
L0000123		0	0.45540E-05	480497.0	3638118.0	127.7	3.49	6.51
3.25	NO	HRDOW						
L0000124		0	0.45540E-05	480492.7	3638131.3	127.9	3.49	6.51
3.25	NO	HRDOW						
L0000125		0	0.45540E-05	480488.4	3638144.6	128.0	3.49	6.51
3.25	NO	HRDOW						
L0000126		0	0.45540E-05	480484.1	3638157.9	128.0	3.49	6.51
3.25	NO	HRDOW						
L0000127		0	0.45540E-05	480479.8	3638171.3	128.0	3.49	6.51
3.25	NO	HRDOW						

L0000128	0	0.45540E-05	480475.6	3638184.6	128.1	3.49	6.51
3.25	NO	HRDOW					
L0000129	0	0.45540E-05	480471.5	3638198.0	128.4	3.49	6.51
3.25	NO	HRDOW					
L0000130	0	0.45540E-05	480467.3	3638211.4	128.6	3.49	6.51
3.25	NO	HRDOW					
L0000131	0	0.45540E-05	480463.1	3638224.7	128.3	3.49	6.51
3.25	NO	HRDOW					
L0000132	0	0.45540E-05	480459.0	3638238.1	128.1	3.49	6.51
3.25	NO	HRDOW					
L0000133	0	0.45540E-05	480454.8	3638251.5	128.6	3.49	6.51
3.25	NO	HRDOW					
L0000134	0	0.45540E-05	480450.6	3638264.8	129.0	3.49	6.51
3.25	NO	HRDOW					
L0000135	0	0.45540E-05	480446.5	3638278.2	128.8	3.49	6.51
3.25	NO	HRDOW					
L0000136	0	0.45540E-05	480442.3	3638291.6	128.6	3.49	6.51
3.25	NO	HRDOW					
L0000137	0	0.45540E-05	480437.5	3638304.7	128.7	3.49	6.51
3.25	NO	HRDOW					
L0000138	0	0.45540E-05	480432.5	3638317.8	128.9	3.49	6.51
3.25	NO	HRDOW					
L0000139	0	0.45540E-05	480427.4	3638330.8	129.1	3.49	6.51
3.25	NO	HRDOW					
L0000140	0	0.45540E-05	480422.3	3638343.8	129.2	3.49	6.51
3.25	NO	HRDOW					
L0000141	0	0.45540E-05	480417.2	3638356.9	129.4	3.49	6.51
3.25	NO	HRDOW					
L0000142	0	0.45540E-05	480412.1	3638369.9	129.6	3.49	6.51
3.25	NO	HRDOW					
L0000143	0	0.45540E-05	480405.8	3638382.4	129.8	3.49	6.51
3.25	NO	HRDOW					
L0000144	0	0.45540E-05	480399.0	3638394.6	130.0	3.49	6.51
3.25	NO	HRDOW					
L0000145	0	0.45540E-05	480392.2	3638406.9	130.0	3.49	6.51
3.25	NO	HRDOW					
L0000146	0	0.45540E-05	480385.4	3638419.1	130.0	3.49	6.51
3.25	NO	HRDOW					
L0000147	0	0.45540E-05	480378.0	3638430.9	130.3	3.49	6.51
3.25	NO	HRDOW					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER EMISSION RATE	EMISSION RATE	BASE	RELEASE	INIT.
SZ	SOURCE	EMISSION RATE	(GRAMS/SEC)	ELEV.	HEIGHT	SY
ID	SOURCE	SCALAR VARY	X	Y	(METERS)	(METERS)
(METERS)		CATS.	(METERS)	(METERS)	(METERS)	(METERS)
		BY				

L0000148		0	0.45540E-05	480369.1	3638441.8	130.9	3.49	6.51
3.25	NO	HRDOW						
L0000149		0	0.45540E-05	480360.3	3638452.6	130.6	3.49	6.51
3.25	NO	HRDOW						
L0000150		0	0.45540E-05	480351.5	3638463.5	130.2	3.49	6.51
3.25	NO	HRDOW						
L0000151		0	0.45540E-05	480342.6	3638474.4	130.0	3.49	6.51
3.25	NO	HRDOW						
L0000152		0	0.45540E-05	480333.8	3638485.2	129.8	3.49	6.51
3.25	NO	HRDOW						
L0000153		0	0.45540E-05	480325.0	3638496.1	129.5	3.49	6.51
3.25	NO	HRDOW						
L0000154		0	0.45540E-05	480315.0	3638505.8	129.2	3.49	6.51
3.25	NO	HRDOW						
L0000155		0	0.45540E-05	480304.1	3638514.6	129.1	3.49	6.51
3.25	NO	HRDOW						
L0000156		0	0.45540E-05	480293.2	3638523.4	128.7	3.49	6.51
3.25	NO	HRDOW						
L0000157		0	0.45540E-05	480282.4	3638532.3	128.2	3.49	6.51
3.25	NO	HRDOW						
L0000158		0	0.45540E-05	480271.3	3638540.9	127.3	3.49	6.51
3.25	NO	HRDOW						
L0000159		0	0.45540E-05	480259.4	3638548.1	126.3	3.49	6.51
3.25	NO	HRDOW						
L0000160		0	0.45540E-05	480247.4	3638555.3	125.5	3.49	6.51
3.25	NO	HRDOW						
L0000161		0	0.45540E-05	480235.4	3638562.6	124.6	3.49	6.51
3.25	NO	HRDOW						
L0000162		0	0.45540E-05	480223.4	3638569.8	123.4	3.49	6.51
3.25	NO	HRDOW						
L0000163		0	0.45540E-05	480211.4	3638577.1	122.4	3.49	6.51
3.25	NO	HRDOW						
L0000164		0	0.45540E-05	480199.5	3638584.3	121.3	3.49	6.51
3.25	NO	HRDOW						
L0000165		0	0.45540E-05	480187.5	3638591.6	120.0	3.49	6.51
3.25	NO	HRDOW						
L0000166		0	0.45540E-05	480175.5	3638598.8	119.0	3.49	6.51
3.25	NO	HRDOW						
L0000167		0	0.45540E-05	480163.6	3638606.1	118.0	3.49	6.51
3.25	NO	HRDOW						

L0000168	0	0.45540E-05	480151.1	3638612.5	116.8	3.49	6.51
3.25	NO	HRDOW					
L0000169	0	0.45540E-05	480138.7	3638618.9	115.4	3.49	6.51
3.25	NO	HRDOW					
L0000170	0	0.45540E-05	480126.2	3638625.3	113.9	3.49	6.51
3.25	NO	HRDOW					
L0000171	0	0.45540E-05	480113.8	3638631.7	112.3	3.49	6.51
3.25	NO	HRDOW					
L0000172	0	0.45540E-05	480101.2	3638637.9	110.9	3.49	6.51
3.25	NO	HRDOW					
L0000173	0	0.45540E-05	480087.4	3638640.0	109.7	3.49	6.51
3.25	NO	HRDOW					
L0000174	0	0.45540E-05	480073.6	3638642.1	108.2	3.49	6.51
3.25	NO	HRDOW					
L0000175	0	0.45540E-05	480059.6	3638643.0	108.5	3.49	6.51
3.25	NO	HRDOW					
L0000176	0	0.45540E-05	480045.6	3638643.5	109.7	3.49	6.51
3.25	NO	HRDOW					
L0000177	0	0.45540E-05	480031.6	3638644.0	110.0	3.49	6.51
3.25	NO	HRDOW					
L0000178	0	0.45540E-05	480017.6	3638644.5	109.6	3.49	6.51
3.25	NO	HRDOW					
L0000179	0	0.45540E-05	480003.6	3638645.0	109.6	3.49	6.51
3.25	NO	HRDOW					
L0000180	0	0.45540E-05	479989.7	3638645.5	110.4	3.49	6.51
3.25	NO	HRDOW					
L0000181	0	0.45540E-05	479975.7	3638646.0	111.1	3.49	6.51
3.25	NO	HRDOW					
L0000182	0	0.45540E-05	479961.7	3638646.5	111.4	3.49	6.51
3.25	NO	HRDOW					
L0000183	0	0.45540E-05	479947.7	3638647.0	111.6	3.49	6.51
3.25	NO	HRDOW					
L0000184	0	0.45540E-05	479933.7	3638647.5	110.8	3.49	6.51
3.25	NO	HRDOW					
L0000185	0	0.45540E-05	479919.7	3638647.8	110.0	3.49	6.51
3.25	NO	HRDOW					
L0000186	0	0.45540E-05	479905.7	3638648.1	109.4	3.49	6.51
3.25	NO	HRDOW					
L0000187	0	0.45540E-05	479891.7	3638648.5	108.8	3.49	6.51
3.25	NO	HRDOW					

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER EMISSION RATE	EMISSION RATE		BASE	RELEASE	INIT.
SZ	SOURCE	SCALAR	PART. (GRAMS/SEC)	X	Y	ELEV.	HEIGHT
(METERS)	ID	CATS.	VARY	(METERS)	(METERS)	(METERS)	(METERS)
			BY				(METERS)

L0000188	0	0.45540E-05	479877.7	3638648.8	106.9	3.49	6.51
3.25	NO	HRDOW					
L0000189	0	0.45540E-05	479863.7	3638649.1	104.7	3.49	6.51
3.25	NO	HRDOW					
L0000190	0	0.45540E-05	479849.7	3638649.5	102.6	3.49	6.51
3.25	NO	HRDOW					
L0000191	0	0.45540E-05	479835.7	3638649.8	100.4	3.49	6.51
3.25	NO	HRDOW					
L0000192	0	0.45540E-05	479821.7	3638650.6	98.5	3.49	6.51
3.25	NO	HRDOW					
L0000193	0	0.45540E-05	479807.8	3638651.6	96.9	3.49	6.51
3.25	NO	HRDOW					
L0000194	0	0.45540E-05	479793.8	3638652.6	95.9	3.49	6.51
3.25	NO	HRDOW					

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID	SOURCE IDs								
-----	-----								
ALL	VOL1	, VOL2	, VOL3	, VOL4	, VOL5	, VOL6	, VOL7	, VOL8	, VOL9
L0000001	VOL9	, VOL10	, VOL11	, VOL12	, VOL13	, VOL14	, VOL15	, VOL16	, VOL17
L0000009	L0000004	, L0000005	, L0000006	, L0000007	, L0000008	, L0000009	, L0000010	, L0000011	, L0000012
	L0000012	, L0000013	, L0000014	, L0000015	, L0000016	, L0000017	, L0000018	, L0000019	, L0000020

L0000017 , L0000018 , L0000019 ,
 L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
 L0000025 , L0000026 , L0000027 ,
 L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
 L0000033 , L0000034 , L0000035 ,
 L0000036 , L0000037 , L0000038 , L0000039 , L0000040 ,
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 L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
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 L0000116 , L0000117 , L0000118 , L0000119 , L0000120 ,
 L0000121 , L0000122 , L0000123 ,
 L0000124 , L0000125 , L0000126 , L0000127 , L0000128 ,
 L0000129 , L0000130 , L0000131 ,
 L0000132 , L0000133 , L0000134 , L0000135 , L0000136 ,
 L0000137 , L0000138 , L0000139 ,
 L0000140 , L0000141 , L0000142 , L0000143 , L0000144 ,
 L0000145 , L0000146 , L0000147 ,

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID	SOURCE IDs					
-----	-----					
L0000153	L0000148	, L0000149	, L0000150	, L0000151	, L0000152	,
	, L0000154	, L0000155	,			
L0000161	L0000156	, L0000157	, L0000158	, L0000159	, L0000160	,
	, L0000162	, L0000163	,			
L0000169	L0000164	, L0000165	, L0000166	, L0000167	, L0000168	,
	, L0000170	, L0000171	,			
L0000177	L0000172	, L0000173	, L0000174	, L0000175	, L0000176	,
	, L0000178	, L0000179	,			
L0000185	L0000180	, L0000181	, L0000182	, L0000183	, L0000184	,
	, L0000186	, L0000187	,			
L0000193	L0000188	, L0000189	, L0000190	, L0000191	, L0000192	,
	, L0000194	,				

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = VOL1		; SOURCE TYPE = VOLUME		:					
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
----	----	----	----	----	----	----	----	----	----
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

DAY OF WEEK = WEEKDAY

6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01

14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY

OF WEEK (HRDOW) *

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
 DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = VOL10 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00

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17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL11 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	

DAY OF WEEK = WEEKDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	
14	.1000E+01	15	.1000E+01	16	.1000E+01					
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	
22	.0000E+00	23	.0000E+00	24	.0000E+00					
DAY OF WEEK = SATURDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	
14	.0000E+00	15	.0000E+00	16	.0000E+00					
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	
22	.0000E+00	23	.0000E+00	24	.0000E+00					
DAY OF WEEK = SUNDAY										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	
14	.0000E+00	15	.0000E+00	16	.0000E+00					
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = VOL12 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000001 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000002 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000003 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000004 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000005 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000006 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000007 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000008 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000009 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000010 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000011 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000012 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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 *** AERMET - VERSION 14134 *** ***
 *** 17:19:15

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000013 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000014 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** AERMET - VERSION 14134 *** ***
*** 17:19:15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000015 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000016 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

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6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L0000017 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR
-----
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000018 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** 17:19:15

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000019 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000020 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

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14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L000021 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - -
- - - - -

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DAY OF WEEK = WEEKDAY

```

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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DAY OF WEEK = SATURDAY

```

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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DAY OF WEEK = SUNDAY

```

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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Towne Centre View\13564 C *** 02/21/23
*** AERMET - VERSION 14134 *** ***
*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000022 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000023 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000024 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000025 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000026 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
------	--------	------	--------	------	--------	------	--------	------	--------

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000027 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
------	--------	------	--------	------	--------	------	--------	------	--------

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
---	-----------	---	-----------	---	-----------	---	-----------	---	-----------

6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000028 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000029 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000030 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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-----
DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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```

DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L000031 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
  HOUR SCALAR HOUR SCALAR HOUR SCALAR

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-----
DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

```

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000032 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000033 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000034 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000035 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00

```

22 .0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00
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   *** AERMET - VERSION 14134 ***   ***
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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L0000036 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
  HOUR SCALAR HOUR SCALAR HOUR SCALAR

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```

                                DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01
 14 .1000E+01  15 .1000E+01  16 .1000E+01
   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

```

```

                                DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

```

```

                                DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000037 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000038 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000039 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000040 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

 DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

 DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000041 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000042 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01

14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L0000043 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000044 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY

OF WEEK (HRDOW) *

SOURCE ID = L0000045 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L0000046 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
 DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000047 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000048 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				
DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				
DAY OF WEEK = SUNDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000049 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000050 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

```

1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

```

DAY OF WEEK = SUNDAY

```

1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L000051 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
  HOUR SCALAR HOUR SCALAR HOUR SCALAR

```

DAY OF WEEK = WEEKDAY

```

1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

```

DAY OF WEEK = SATURDAY

```

1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

```

DAY OF WEEK = SUNDAY

```

1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000052 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000053 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000054 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000055 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000056 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000057 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000058 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000059 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000060 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000061 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000062 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000063 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
1		2		3		4		5	
6		7		8					
9		10		11		12		13	
14		15		16					
17		18		19		20		21	
22		23		24					

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000064 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000065 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000066 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000067 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000068 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000069 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000070 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000071 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR
 - - - - -
 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
 DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
 DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000072 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000073 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000074 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000075 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000076 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
------	--------	------	--------	------	--------	------	--------	------	--------

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000077 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
------	--------	------	--------	------	--------	------	--------	------	--------

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
---	-----------	---	-----------	---	-----------	---	-----------	---	-----------

6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000078 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** AERMET - VERSION 14134 *** ***
*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000079 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** AERMET - VERSION 14134 *** ***
*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000080 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L000081 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
  HOUR SCALAR HOUR SCALAR HOUR SCALAR

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-----
DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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```

DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

```

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000082 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000083 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000084 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000085 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00

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22 .0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00
^ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
Towne Centre View\13564 C ***     02/21/23
   *** AERMET - VERSION 14134 ***   ***
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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L0000086 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
  HOUR SCALAR HOUR SCALAR HOUR SCALAR

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                                DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01
 14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

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                                DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

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```

                                DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

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   *** AERMET - VERSION 14134 ***   ***
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000087 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000088 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000089 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

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1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```

SOURCE ID = L000090 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

```

```

-----
DAY OF WEEK = WEEKDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SATURDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SUNDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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Towne Centre View\13564 C *** 02/21/23
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*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000091 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 Towne Centre View\13564 C *** 02/21/23
 *** AERMET - VERSION 14134 *** ***
 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000092 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01

14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L0000093 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000094 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY

OF WEEK (HRDOW) *

SOURCE ID = L000095 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000096 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
 DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** AERMET - VERSION 14134 *** ***
 *** 17:19:15

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000097 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000098 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
 DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
 DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000099 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** AERMET - VERSION 14134 *** ***
 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000100 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
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 *** 17:19:15

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000101 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000102 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000103 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000104 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000105 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000106 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000107 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000108 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000109 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000110 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000111 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000112 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** AERMET - VERSION 14134 *** ***
*** 17:19:15

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L0000113 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000114 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000115 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000116 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000117 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000118 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000119 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** AERMET - VERSION 14134 *** ***
*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000120 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000121 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR
 - - - - -

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000122 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000123 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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 *** 17:19:15

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000124 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000125 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR		

DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00		
6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01
12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00
18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
DAY OF WEEK = SATURDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000126 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
------	--------	------	--------	------	--------	------	--------	------	--------

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000127 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
---	-----------	---	-----------	---	-----------	---	-----------	---	-----------

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000128 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000129 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000130 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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-----
DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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```

DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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```

DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L000131 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
  HOUR SCALAR HOUR SCALAR HOUR SCALAR

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-----
DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

```

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000132 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000133 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000134 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000135 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00

```

22 .0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00
^ *** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
Towne Centre View\13564 C ***     02/21/23
   *** AERMET - VERSION 14134 ***   ***
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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```

SOURCE ID = L0000136 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
  HOUR SCALAR HOUR SCALAR HOUR SCALAR

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                                DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01
 14 .1000E+01  15 .1000E+01  16 .1000E+01
   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

```

```

                                DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

```

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                                DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
   17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

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Towne Centre View\13564 C ***     02/21/23
   *** AERMET - VERSION 14134 ***   ***
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                                     17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000137 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000138 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
---	-----------	---	-----------	---	-----------	---	-----------	---	-----------

6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000139 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000140 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000141 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000142 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01

14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000143 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000144 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
 Towne Centre View\13564 C *** 02/21/23
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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY

OF WEEK (HRDOW) *

SOURCE ID = L0000145 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L0000146 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
 DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000147 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000148 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				
DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				
DAY OF WEEK = SUNDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000149 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000150 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000151 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000152 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000153 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

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- - - - -
- - - - -
DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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```

DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L000154 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
  HOUR SCALAR HOUR SCALAR HOUR SCALAR

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- - - - -
- - - - -
DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00

```

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000155 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000156 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000157 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000158 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000159 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000160 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000161 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000162 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000163 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR										
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00		
6	.0000E+00	7	.0000E+00	8	.0000E+00						
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01		
14	.1000E+01	15	.1000E+01	16	.1000E+01						
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00		
22	.0000E+00	23	.0000E+00	24	.0000E+00						

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000164 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000165 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000166 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000167 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000168 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000169 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L0000170 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000171 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR
 - - - - -

DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000172 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000173 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000174 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00					

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	
6	.0000E+00	7	.0000E+00	8	.0000E+00					
	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00					
	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000175 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR		

DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00		
6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.1000E+01	10	.1000E+01	11	.1000E+01
12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01	17	.0000E+00
18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00
DAY OF WEEK = SATURDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000176 ; SOURCE TYPE = VOLUME :

| HOUR | SCALAR |
|------|--------|------|--------|------|--------|------|--------|------|--------|
| HOUR | SCALAR |

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000177 ; SOURCE TYPE = VOLUME :

| HOUR | SCALAR |
|------|--------|------|--------|------|--------|------|--------|------|--------|
| HOUR | SCALAR |

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
---	-----------	---	-----------	---	-----------	---	-----------	---	-----------

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000178 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000179 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** AERMET - VERSION 14134 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L000180 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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- - - - -
- - - - -
DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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DAY OF WEEK = SUNDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L000181 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
  HOUR SCALAR HOUR SCALAR HOUR SCALAR

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```

- - - - -
- - - - -
DAY OF WEEK = WEEKDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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```

DAY OF WEEK = SATURDAY
  1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
  9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

```

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW) *

SOURCE ID = L000182 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000183 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000184 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000185 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR								
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DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00

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22 .0000E+00  23 .0000E+00  24 .0000E+00
                                DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00
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Towne Centre View\13564 C ***     02/21/23
   *** AERMET - VERSION 14134 ***   ***
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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L0000186 ; SOURCE TYPE = VOLUME :
  HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
  HOUR SCALAR HOUR SCALAR HOUR SCALAR
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                                DAY OF WEEK = WEEKDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .1000E+01  10 .1000E+01  11 .1000E+01  12 .1000E+01  13 .1000E+01
 14 .1000E+01  15 .1000E+01  16 .1000E+01
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

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                                DAY OF WEEK = SATURDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

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                                DAY OF WEEK = SUNDAY
   1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
  6 .0000E+00   7 .0000E+00   8 .0000E+00
   9 .0000E+00  10 .0000E+00  11 .0000E+00  12 .0000E+00  13 .0000E+00
 14 .0000E+00  15 .0000E+00  16 .0000E+00
  17 .0000E+00  18 .0000E+00  19 .0000E+00  20 .0000E+00  21 .0000E+00
 22 .0000E+00  23 .0000E+00  24 .0000E+00

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   *** AERMET - VERSION 14134 ***   ***
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000187 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000188 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
---	-----------	---	-----------	---	-----------	---	-----------	---	-----------

6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000189 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

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1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

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SOURCE ID = L0000190 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

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DAY OF WEEK = WEEKDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SATURDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

```

```

DAY OF WEEK = SUNDAY
1 .0000E+00  2 .0000E+00  3 .0000E+00  4 .0000E+00  5 .0000E+00
6 .0000E+00  7 .0000E+00  8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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^ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
Towne Centre View\13564 C *** 02/21/23
*** AERMET - VERSION 14134 *** ***
*** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000191 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
 Towne Centre View\13564 C *** 02/21/23
 *** AERMET - VERSION 14134 *** ***
 *** 17:19:15

PAGE 214

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000192 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01

14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
 Towne Centre View\13564 C *** 02/21/23
 *** AERMET - VERSION 14134 *** ***
 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L0000193 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 Towne Centre View\13564 C *** 02/21/23
 *** AERMET - VERSION 14134 *** ***
 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW) *

SOURCE ID = L000194 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = WEEKDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 Towne Centre View\13564 C *** 02/21/23
 *** AERMET - VERSION 14134 *** ***
 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(480078.2, 3638812.9, 111.7, 111.7, 0.0); (480073.8,
3638841.2, 111.4, 114.0, 0.0);
(479216.9, 3638819.4, 60.4, 108.0, 0.0); (479276.1,
3638663.2, 101.9, 108.0, 0.0);
(479202.8, 3639155.9, 94.8, 96.0, 0.0); (479187.6,
3638914.4, 71.0, 108.0, 0.0);
(479657.0, 3639277.0, 23.6, 130.0, 0.0); (480198.4,
3639152.5, 20.9, 131.0, 0.0);
(480235.3, 3639118.8, 21.2, 131.0, 0.0); (480221.5,
3638273.9, 116.8, 129.0, 0.0);
(480235.4, 3638271.1, 119.1, 127.0, 0.0); (480154.0,
3638262.7, 111.2, 127.0, 0.0);
(480103.7, 3638230.2, 107.4, 125.0, 0.0); (480070.2,
3638222.9, 99.2, 130.0, 0.0);
(480046.2, 3638213.8, 95.6, 130.0, 0.0); (480028.4,
3638199.7, 96.4, 129.0, 0.0);
(480008.0, 3638194.4, 98.3, 113.0, 0.0); (479975.0,
3638186.4, 103.9, 112.0, 0.0);
(479923.8, 3638169.2, 106.1, 106.1, 0.0); (479767.4,
3638137.7, 102.1, 107.0, 0.0);
(479598.8, 3638181.6, 101.1, 105.0, 0.0); (479753.9,
3638151.5, 100.9, 107.0, 0.0);
(479551.1, 3638299.1, 96.8, 107.0, 0.0); (479481.5,
3638261.1, 102.3, 106.0, 0.0);
(479558.1, 3638250.7, 98.8, 107.0, 0.0); (479406.9,
3638370.3, 106.9, 106.9, 0.0);
(479730.3, 3638487.9, 109.1, 109.1, 0.0); (479871.9,
3638588.7, 107.6, 107.6, 0.0);
(480019.8, 3638588.3, 112.5, 112.5, 0.0); (480088.8,
3638566.3, 113.6, 113.6, 0.0);
(480110.3, 3638570.2, 114.8, 114.8, 0.0); (480300.2,
3638596.9, 127.7, 127.7, 0.0);
(480340.2, 3638668.7, 120.0, 128.0, 0.0); (480223.6,
3638526.3, 123.0, 123.0, 0.0);
(480279.7, 3638501.9, 127.9, 127.9, 0.0); (479685.9,
3638027.1, 105.9, 105.9, 0.0);
(479682.8, 3637865.0, 107.1, 107.1, 0.0); (479867.3,
3637849.4, 110.3, 110.3, 0.0);
(479914.6, 3637846.7, 111.8, 111.8, 0.0); (479788.9,
3637821.0, 108.7, 108.7, 0.0);
(479839.9, 3637820.0, 109.4, 109.4, 0.0); (478551.7,
3637898.3, 97.4, 99.0, 0.0);
(478296.2, 3638427.8, 104.3, 104.3, 0.0); (478290.6,
3638534.9, 100.5, 106.0, 0.0);
(478284.2, 3638394.6, 104.4, 104.4, 0.0); (478261.5,
3638214.6, 100.5, 104.0, 0.0);
(478263.8, 3638293.0, 100.9, 104.0, 0.0); (480673.7,

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3639948.7, 93.2, 123.0, 0.0);
( 480734.9, 3639920.9, 76.5, 123.0, 0.0); ( 480827.1,
3639877.7, 48.0, 123.0, 0.0);
( 480935.4, 3639711.3, 88.5, 100.0, 0.0); ( 480342.0,
3638410.3, 128.9, 128.9, 0.0);
( 480448.9, 3638347.8, 128.3, 128.3, 0.0); ( 480414.3,
3638459.8, 128.5, 128.5, 0.0);
( 480474.5, 3638053.1, 128.5, 128.5, 0.0); ( 480412.4,
3638092.4, 129.0, 129.0, 0.0);
( 480378.6, 3638195.0, 129.0, 129.0, 0.0); ( 480327.5,
3638353.7, 127.2, 127.2, 0.0);
( 480546.0, 3638306.9, 125.8, 125.8, 0.0); ( 480611.2,
3638136.8, 123.9, 123.9, 0.0);
( 480301.2, 3638116.3, 125.2, 125.2, 0.0); ( 480254.3,
3638228.2, 122.5, 122.5, 0.0);
( 480318.2, 3638059.6, 124.9, 127.0, 0.0); ( 480336.1,
3637991.1, 127.7, 127.7, 0.0);
( 480354.5, 3637931.8, 128.0, 128.0, 0.0); ( 480598.1,
3638026.6, 124.4, 124.4, 0.0);
( 480535.7, 3637889.8, 126.1, 126.1, 0.0); ( 480609.5,
3637912.2, 123.8, 123.8, 0.0);
( 480614.3, 3637837.5, 122.0, 122.0, 0.0); ( 480556.4,
3637816.5, 123.8, 123.8, 0.0);
( 480550.2, 3637726.5, 121.9, 121.9, 0.0); ( 480564.0,
3637598.6, 118.8, 118.8, 0.0);
( 480564.0, 3637575.1, 117.9, 117.9, 0.0); ( 480546.4,
3637630.4, 121.1, 127.0, 0.0);
( 480564.8, 3637501.4, 115.2, 121.0, 0.0); ( 480619.6,
3637520.0, 109.9, 121.0, 0.0);
( 480619.6, 3637395.6, 116.3, 116.3, 0.0); ( 480545.5,
3637397.5, 118.9, 118.9, 0.0);
( 480661.4, 3637321.5, 102.0, 122.5, 0.0); ( 480573.9,
3637313.6, 116.7, 116.7, 0.0);
( 480812.7, 3637334.6, 91.0, 121.0, 0.0); ( 480896.2,
3637363.0, 100.5, 118.4, 0.0);
( 480932.2, 3637353.9, 102.2, 118.4, 0.0); ( 481021.7,
3637370.1, 106.0, 118.4, 0.0);
( 481073.3, 3637378.3, 105.6, 119.0, 0.0); ( 480847.1,
3637417.2, 87.2, 121.0, 0.0);
( 480954.4, 3637436.5, 117.1, 117.1, 0.0); ( 481521.1,
3637593.9, 115.5, 115.5, 0.0);
( 481012.6, 3637485.1, 115.0, 115.0, 0.0); ( 479196.9,
3639381.6, 98.7, 105.0, 0.0);
^ *** AERMOT - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
Towne Centre View\13564 C *** 02/21/23
*** AERMET - VERSION 14134 *** ***
*** 17:19:15

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▲ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
 Towne Centre View\13564 C *** 02/21/23
 *** AERMET - VERSION 14134 *** ***
 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA ***

Surface file: 722931.SFC
 Met Version: 14134
 Profile file: 722931.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 93107
 Name: UNKNOWN
 Year: 2009

Upper air station no.: 3190
 Name: UNKNOWN
 Year: 2009

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
09	01	01	1	01	-5.8	0.103	-9.000	-9.000	-999.	80.	17.1	0.21	1.32	
1.00	1.76	341.	10.0	281.4	2.0									
09	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32	
1.00	0.00	0.	10.0	281.4	2.0									
09	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32	
1.00	0.00	0.	10.0	278.1	2.0									
09	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32	
1.00	0.00	0.	10.0	278.1	2.0									
09	01	01	1	05	-13.7	0.126	-9.000	-9.000	-999.	107.	12.9	0.23	1.32	
1.00	2.36	43.	10.0	278.8	2.0									
09	01	01	1	06	-7.6	0.094	-9.000	-9.000	-999.	69.	9.6	0.23	1.32	
1.00	1.76	32.	10.0	278.8	2.0									
09	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32	
1.00	0.00	0.	10.0	277.0	2.0									
09	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32	
0.50	0.00	0.	10.0	281.4	2.0									
09	01	01	1	09	43.9	0.223	0.454	0.011	76.	252.	-22.4	0.21	1.32	
0.30	1.76	307.	10.0	284.2	2.0									
09	01	01	1	10	97.0	0.297	0.758	0.008	160.	387.	-24.0	0.21	1.32	
0.23	2.36	331.	10.0	285.4	2.0									
09	01	01	1	11	137.1	0.306	0.980	0.008	245.	405.	-18.6	0.21	1.32	

0.21	2.36	324.	10.0	289.2	2.0								
09	01	01	1	12	149.7	0.251	1.157	0.009	369.	303.	-9.4	0.21	1.32
0.20	1.76	346.	10.0	291.4	2.0								
09	01	01	1	13	147.0	0.402	1.247	0.007	470.	611.	-39.2	0.21	1.32
0.20	3.36	323.	10.0	291.4	2.0								
09	01	01	1	14	123.1	0.388	1.276	0.007	601.	579.	-42.1	0.19	1.32
0.21	3.36	289.	10.0	289.9	2.0								
09	01	01	1	15	80.6	0.385	1.155	0.007	681.	574.	-63.2	0.21	1.32
0.24	3.36	312.	10.0	289.9	2.0								
09	01	01	1	16	21.3	0.314	0.746	0.007	694.	426.	-129.9	0.21	1.32
0.33	2.86	304.	10.0	287.5	2.0								
09	01	01	1	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32
0.61	999.00	999.	10.0	283.8	2.0								
09	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32
1.00	0.00	0.	10.0	283.1	2.0								
09	01	01	1	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32
1.00	0.00	0.	10.0	283.1	2.0								
09	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32
1.00	0.00	0.	10.0	282.5	2.0								
09	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32
1.00	0.00	0.	10.0	282.5	2.0								
09	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32
1.00	0.00	0.	10.0	282.5	2.0								
09	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32
1.00	0.00	0.	10.0	282.0	2.0								
09	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32
1.00	0.00	0.	10.0	282.0	2.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
09	01	01	01	10.0	1	341.	1.76	281.5	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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*** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
Towne Centre View\13564 C ***      02/21/23
*** AERMET - VERSION 14134 ***      ***
***                                         ***
                                         17:19:15

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): VOL1, VOL2, VOL3, VOL4, VOL5, VOL6, VOL7, VOL8, VOL9, VOL10, VOL11, VOL12, VOL13, L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000008,

, L0000014 , L0000015 , . . . , L0000009 , L0000010 , L0000011 , L0000012 , L0000013

*** DISCRETE CARTESIAN RECEPTOR POINTS

**		** CONC OF DPM	IN MICROGRAMS/M**3
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
480078.16	3638812.94	0.05139	480073.82
3638841.16	0.04005		
479216.93	3638819.45	0.00135	479276.08
3638663.16	0.00173		
479202.82	3639155.91	0.00091	479187.62
3638914.42	0.00118		
479657.00	3639277.02	0.00242	480198.42
3639152.52	0.00420		
480235.35	3639118.75	0.00437	480221.47
3638273.94	0.00536		
480235.39	3638271.15	0.00529	480153.99
3638262.74	0.00487		
480103.69	3638230.24	0.00390	480070.22
3638222.91	0.00364		
480046.20	3638213.76	0.00333	480028.43
3638199.71	0.00297		
480007.96	3638194.38	0.00275	479975.00
3638186.40	0.00240		
479923.82	3638169.21	0.00191	479767.43
3638137.73	0.00116		
479598.77	3638181.58	0.00097	479753.87
3638151.48	0.00120		
479551.08	3638299.11	0.00137	479481.48
3638261.06	0.00099		
479558.07	3638250.70	0.00115	479406.89
3638370.35	0.00115		
479730.31	3638487.87	0.00708	479871.89
3638588.66	0.03950		
480019.75	3638588.27	0.04010	480088.77
3638566.31	0.03121		
480110.34	3638570.23	0.03102	480300.16
3638596.90	0.01577		
480340.16	3638668.67	0.01325	480223.60
3638526.30	0.01799		
480279.71	3638501.93	0.01460	479685.90
3638027.12	0.00068		
479682.85	3637865.05	0.00044	479867.26

3637849.38	0.00054			
479914.61	3637846.71	0.00057		479788.89
3637821.04	0.00045			
479839.91	3637820.04	0.00048		478551.73
3637898.26	0.00013			
478296.16	3638427.84	0.00015		478290.62
3638534.93	0.00015			
478284.16	3638394.60	0.00014		478261.54
3638214.58	0.00013			
478263.85	3638293.05	0.00014		480673.68
3639948.73	0.00061			
480734.89	3639920.87	0.00061		480827.11
3639877.70	0.00060			
480935.41	3639711.32	0.00066		480342.04
3638410.28	0.00920			
480448.92	3638347.81	0.00862		480414.34
3638459.79	0.00961			
480474.46	3638053.12	0.00318		480412.38
3638092.41	0.00297			
480378.58	3638194.96	0.00409		480327.50
3638353.70	0.00734			
480545.97	3638306.94	0.00531		480611.19
3638136.81	0.00366			
480301.18	3638116.34	0.00288		480254.33
3638228.19	0.00438			
480318.21	3638059.56	0.00238		480336.10
3637991.14	0.00189			
480354.55	3637931.80	0.00160		480598.13
3638026.62	0.00353			
480535.68	3637889.78	0.00254		480609.49
3637912.21	0.00357			
480614.32	3637837.55	0.00372		480556.40
3637816.54	0.00256			
480550.16	3637726.54	0.00179		480564.03
3637598.62	0.00217			
480564.02	3637575.10	0.00216		480546.37
3637630.41	0.00146			
480564.83	3637501.39	0.00208		480619.59
3637520.05	0.00274			
480619.59	3637395.65	0.00314		480545.54
3637397.50	0.00104			
480661.36	3637321.54	0.00227		480573.91
3637313.59	0.00084			

```

*** AERMOD - VERSION 22112 ***   *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
Towne Centre View\13564 C ***   02/21/23
*** AERMET - VERSION 14134 ***   ***
***                               ***   17:19:15

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*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
 YEARS FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): VOL1 , VOL2
 , VOL3 , VOL4 , VOL5 ,
 VOL6 , VOL7 , VOL8 , VOL9 , VOL10
 , VOL11 , VOL12 , VOL13 ,
 L0000001 , L0000002 , L0000003 , L0000004 , L0000005
 , L0000006 , L0000007 , L0000008 ,
 L0000009 , L0000010 , L0000011 , L0000012 , L0000013
 , L0000014 , L0000015 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

**		** CONC OF DPM	IN MICROGRAMS/M**3
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
480812.70	3637334.60	0.00198	480896.18
3637362.99	0.00292		
480932.23	3637353.90	0.00224	481021.67
3637370.09	0.00219		
481073.35	3637378.32	0.00217	480847.06
3637417.22	0.00201		
480954.38	3637436.53	0.00190	481521.14
3637593.95	0.00105		
481012.60	3637485.09	0.00145	479196.94
3639381.63	0.00062		
479688.53	3639399.55	0.00158	480118.03
3639255.53	0.00337		
479777.36	3639660.87	0.00089	480182.57
3639596.86	0.00140		
480251.19	3638276.09	0.00543	

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
 Towne Centre View\13564 C *** 02/21/23
 *** AERMET - VERSION 14134 *** ***
 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID	
ALL	1ST HIGHEST VALUE IS	0.05139 AT (	480078.16, 3638812.94,
111.67,	111.67, 0.00) DC		
	2ND HIGHEST VALUE IS	0.04010 AT (	480019.75, 3638588.27,
112.47,	112.47, 0.00) DC		
	3RD HIGHEST VALUE IS	0.04005 AT (	480073.82, 3638841.16,
111.39,	114.00, 0.00) DC		
	4TH HIGHEST VALUE IS	0.03950 AT (	479871.89, 3638588.66,
107.57,	107.57, 0.00) DC		
	5TH HIGHEST VALUE IS	0.03121 AT (	480088.77, 3638566.31,
113.65,	113.65, 0.00) DC		
	6TH HIGHEST VALUE IS	0.03102 AT (	480110.34, 3638570.23,
114.75,	114.75, 0.00) DC		
	7TH HIGHEST VALUE IS	0.01799 AT (	480223.60, 3638526.30,
123.02,	123.02, 0.00) DC		
	8TH HIGHEST VALUE IS	0.01577 AT (	480300.16, 3638596.90,
127.67,	127.67, 0.00) DC		
	9TH HIGHEST VALUE IS	0.01460 AT (	480279.71, 3638501.93,
127.88,	127.88, 0.00) DC		
	10TH HIGHEST VALUE IS	0.01325 AT (	480340.16, 3638668.67,
119.98,	128.00, 0.00) DC		

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
 Towne Centre View\13564 C *** 02/21/23
 *** AERMET - VERSION 14134 *** ***
 *** 17:19:15

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
 A Total of 1 Warning Message(s)

A Total of 11336 Informational Message(s)
A Total of 43872 Hours Were Processed
A Total of 9082 Calm Hours Identified
A Total of 2254 Missing Hours Identified (5.14 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
MX W481 43873 MAIN: Data Remaining After End of Year. Number of Hours=
48

*** AERMOD Finishes Successfully ***

** Lakes Environmental AERMOD MPI
**

**

** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 2/21/2023
** File: C:\Users\Michael Tirohn\Desktop\HRAs\13564 Towne Centre View\13564
Ops\13564 Ops.ADI
**

**
**

** AERMOD Control Pathway

**
**

CO STARTING
TITLEONE C:\Users\Michael Tirohn\Desktop\HRAs\13564 Towne Centre View\13564 C
MODELOPT DFAULT CONC
AVERTIME ANNUAL
POLLUTID DPM
RUNORNOT RUN
ERRORFIL "13564 Ops.err"

CO FINISHED
**

** AERMOD Source Pathway

**
**

SO STARTING

** Source Location **

** Source ID - Type - X Coord. - Y Coord. **

**

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE1

** DESCRSRC Offsite 100%

** PREFIX

** Length of Side = 14.00

** Configuration = Adjacent

** Emission Rate = 0.00009159

** Vertical Dimension = 6.99

** SZINIT = 3.25

** Nodes = 24

** 481512.633, 3637491.733, 119.87, 3.49, 6.51

** 480852.937, 3637382.420, 88.85, 3.49, 6.51

** 480598.360, 3637342.123, 112.19, 3.49, 6.51

** 480592.603, 3637376.024, 113.35, 3.49, 6.51

** 480588.765, 3637455.340, 120.10, 3.49, 6.51

** 480584.287, 3637526.340, 111.65, 3.49, 6.51

** 480586.846, 3637623.565, 117.71, 3.49, 6.51

** 480589.405, 3637736.142, 119.56, 3.49, 6.51

** 480584.927, 3637815.458, 122.94, 3.49, 6.51

** 480567.657, 3637903.088, 125.32, 3.49, 6.51

** 480480.026, 3638175.576, 128.00, 3.49, 6.51

** 480442.668, 3638295.494, 128.66, 3.49, 6.51

** 480412.584, 3638372.693, 129.71, 3.49, 6.51

** 480382.499, 3638426.903, 129.93, 3.49, 6.51

** 480323.114, 3638499.918, 129.30, 3.49, 6.51

** 480275.103, 3638539.002, 127.94, 3.49, 6.51

** 480218.407, 3638573.261, 123.04, 3.49, 6.51

** 480165.089, 3638605.590, 118.14, 3.49, 6.51

** 480103.567, 3638637.195, 112.31, 3.49, 6.51

** 480071.480, 3638642.020, 107.85, 3.49, 6.51

** 479995.483, 3638644.674, 109.51, 3.49, 6.51

** 479933.720, 3638646.846, 110.67, 3.49, 6.51

** 479832.391, 3638649.258, 99.39, 3.49, 6.51

** 479795.478, 3638651.912, 96.74, 3.49, 6.51

**

LOCATION L0001020 VOLUME 481505.727 3637490.589 119.24
LOCATION L0001021 VOLUME 481491.916 3637488.300 118.11
LOCATION L0001022 VOLUME 481478.104 3637486.012 116.80
LOCATION L0001023 VOLUME 481464.292 3637483.723 113.96
LOCATION L0001024 VOLUME 481450.481 3637481.434 111.12
LOCATION L0001025 VOLUME 481436.669 3637479.146 110.10
LOCATION L0001026 VOLUME 481422.857 3637476.857 108.55

LOCATION L0001027	VOLUME	481409.046	3637474.569	107.27
LOCATION L0001028	VOLUME	481395.234	3637472.280	106.10
LOCATION L0001029	VOLUME	481381.422	3637469.991	105.42
LOCATION L0001030	VOLUME	481367.611	3637467.703	105.49
LOCATION L0001031	VOLUME	481353.799	3637465.414	105.41
LOCATION L0001032	VOLUME	481339.987	3637463.126	104.66
LOCATION L0001033	VOLUME	481326.176	3637460.837	103.87
LOCATION L0001034	VOLUME	481312.364	3637458.548	103.33
LOCATION L0001035	VOLUME	481298.552	3637456.260	102.87
LOCATION L0001036	VOLUME	481284.741	3637453.971	99.65
LOCATION L0001037	VOLUME	481270.929	3637451.682	97.56
LOCATION L0001038	VOLUME	481257.117	3637449.394	94.61
LOCATION L0001039	VOLUME	481243.306	3637447.105	91.29
LOCATION L0001040	VOLUME	481229.494	3637444.817	87.94
LOCATION L0001041	VOLUME	481215.682	3637442.528	84.58
LOCATION L0001042	VOLUME	481201.871	3637440.239	87.94
LOCATION L0001043	VOLUME	481188.059	3637437.951	97.29
LOCATION L0001044	VOLUME	481174.247	3637435.662	102.35
LOCATION L0001045	VOLUME	481160.436	3637433.374	99.68
LOCATION L0001046	VOLUME	481146.624	3637431.085	98.01
LOCATION L0001047	VOLUME	481132.812	3637428.796	100.77
LOCATION L0001048	VOLUME	481119.001	3637426.508	103.57
LOCATION L0001049	VOLUME	481105.189	3637424.219	109.26
LOCATION L0001050	VOLUME	481091.377	3637421.930	114.16
LOCATION L0001051	VOLUME	481077.566	3637419.642	114.61
LOCATION L0001052	VOLUME	481063.754	3637417.353	114.42
LOCATION L0001053	VOLUME	481049.942	3637415.065	114.27
LOCATION L0001054	VOLUME	481036.131	3637412.776	114.18
LOCATION L0001055	VOLUME	481022.319	3637410.487	114.04
LOCATION L0001056	VOLUME	481008.507	3637408.199	113.81
LOCATION L0001057	VOLUME	480994.696	3637405.910	114.04
LOCATION L0001058	VOLUME	480980.884	3637403.622	115.23
LOCATION L0001059	VOLUME	480967.072	3637401.333	115.87
LOCATION L0001060	VOLUME	480953.261	3637399.044	112.96
LOCATION L0001061	VOLUME	480939.449	3637396.756	109.80
LOCATION L0001062	VOLUME	480925.637	3637394.467	107.99
LOCATION L0001063	VOLUME	480911.825	3637392.178	106.43
LOCATION L0001064	VOLUME	480898.014	3637389.890	102.81
LOCATION L0001065	VOLUME	480884.202	3637387.601	98.88
LOCATION L0001066	VOLUME	480870.390	3637385.313	94.37
LOCATION L0001067	VOLUME	480856.579	3637383.024	89.44
LOCATION L0001068	VOLUME	480842.767	3637380.735	89.47
LOCATION L0001069	VOLUME	480828.955	3637378.446	95.29
LOCATION L0001070	VOLUME	480815.143	3637376.157	99.62
LOCATION L0001071	VOLUME	480801.331	3637373.868	100.35
LOCATION L0001072	VOLUME	480787.519	3637371.579	101.71
LOCATION L0001073	VOLUME	480773.707	3637369.290	106.41
LOCATION L0001074	VOLUME	480759.895	3637367.001	111.01
LOCATION L0001075	VOLUME	480746.083	3637364.712	112.96
LOCATION L0001076	VOLUME	480732.271	3637362.423	114.27

LOCATION	L0001077	VOLUME	480718.305	3637361.109	112.95
LOCATION	L0001078	VOLUME	480704.477	3637358.921	110.86
LOCATION	L0001079	VOLUME	480690.649	3637356.732	108.47
LOCATION	L0001080	VOLUME	480676.821	3637354.543	105.84
LOCATION	L0001081	VOLUME	480662.993	3637352.354	104.57
LOCATION	L0001082	VOLUME	480649.166	3637350.165	105.20
LOCATION	L0001083	VOLUME	480635.338	3637347.976	106.14
LOCATION	L0001084	VOLUME	480621.510	3637345.788	107.92
LOCATION	L0001085	VOLUME	480607.682	3637343.599	110.29
LOCATION	L0001086	VOLUME	480597.596	3637346.620	112.25
LOCATION	L0001087	VOLUME	480595.252	3637360.423	112.41
LOCATION	L0001088	VOLUME	480592.908	3637374.225	113.75
LOCATION	L0001089	VOLUME	480592.014	3637388.185	115.73
LOCATION	L0001090	VOLUME	480591.338	3637402.169	117.15
LOCATION	L0001091	VOLUME	480590.661	3637416.152	117.98
LOCATION	L0001092	VOLUME	480589.984	3637430.136	118.58
LOCATION	L0001093	VOLUME	480589.308	3637444.120	118.60
LOCATION	L0001094	VOLUME	480588.591	3637458.101	119.57
LOCATION	L0001095	VOLUME	480587.710	3637472.073	118.35
LOCATION	L0001096	VOLUME	480586.829	3637486.045	117.02
LOCATION	L0001097	VOLUME	480585.947	3637500.018	114.14
LOCATION	L0001098	VOLUME	480585.066	3637513.990	111.27
LOCATION	L0001099	VOLUME	480584.330	3637527.965	111.52
LOCATION	L0001100	VOLUME	480584.698	3637541.960	112.27
LOCATION	L0001101	VOLUME	480585.067	3637555.955	113.70
LOCATION	L0001102	VOLUME	480585.435	3637569.950	115.52
LOCATION	L0001103	VOLUME	480585.803	3637583.945	116.64
LOCATION	L0001104	VOLUME	480586.172	3637597.941	117.19
LOCATION	L0001105	VOLUME	480586.540	3637611.936	117.46
LOCATION	L0001106	VOLUME	480586.900	3637625.931	117.31
LOCATION	L0001107	VOLUME	480587.218	3637639.927	117.28
LOCATION	L0001108	VOLUME	480587.536	3637653.924	117.58
LOCATION	L0001109	VOLUME	480587.854	3637667.920	117.87
LOCATION	L0001110	VOLUME	480588.172	3637681.917	118.11
LOCATION	L0001111	VOLUME	480588.490	3637695.913	118.37
LOCATION	L0001112	VOLUME	480588.808	3637709.909	118.81
LOCATION	L0001113	VOLUME	480589.126	3637723.906	119.25
LOCATION	L0001114	VOLUME	480589.305	3637737.900	119.71
LOCATION	L0001115	VOLUME	480588.516	3637751.878	120.23
LOCATION	L0001116	VOLUME	480587.727	3637765.855	120.84
LOCATION	L0001117	VOLUME	480586.938	3637779.833	121.47
LOCATION	L0001118	VOLUME	480586.149	3637793.811	122.02
LOCATION	L0001119	VOLUME	480585.360	3637807.789	122.51
LOCATION	L0001120	VOLUME	480583.705	3637821.657	122.85
LOCATION	L0001121	VOLUME	480580.998	3637835.393	122.94
LOCATION	L0001122	VOLUME	480578.291	3637849.129	123.15
LOCATION	L0001123	VOLUME	480575.584	3637862.864	123.72
LOCATION	L0001124	VOLUME	480572.877	3637876.600	124.22
LOCATION	L0001125	VOLUME	480570.170	3637890.336	124.77
LOCATION	L0001126	VOLUME	480567.350	3637904.043	125.32

LOCATION L0001127	VOLUME	480563.064	3637917.370	125.54
LOCATION L0001128	VOLUME	480558.778	3637930.698	125.68
LOCATION L0001129	VOLUME	480554.491	3637944.026	125.82
LOCATION L0001130	VOLUME	480550.205	3637957.354	125.96
LOCATION L0001131	VOLUME	480545.919	3637970.681	126.12
LOCATION L0001132	VOLUME	480541.633	3637984.009	126.40
LOCATION L0001133	VOLUME	480537.347	3637997.337	126.81
LOCATION L0001134	VOLUME	480533.061	3638010.665	127.29
LOCATION L0001135	VOLUME	480528.775	3638023.992	127.65
LOCATION L0001136	VOLUME	480524.488	3638037.320	127.82
LOCATION L0001137	VOLUME	480520.202	3638050.648	127.96
LOCATION L0001138	VOLUME	480515.916	3638063.976	128.00
LOCATION L0001139	VOLUME	480511.630	3638077.303	128.00
LOCATION L0001140	VOLUME	480507.344	3638090.631	127.91
LOCATION L0001141	VOLUME	480503.058	3638103.959	127.73
LOCATION L0001142	VOLUME	480498.771	3638117.287	127.68
LOCATION L0001143	VOLUME	480494.485	3638130.614	127.82
LOCATION L0001144	VOLUME	480490.199	3638143.942	127.96
LOCATION L0001145	VOLUME	480485.913	3638157.270	128.00
LOCATION L0001146	VOLUME	480481.627	3638170.598	128.00
LOCATION L0001147	VOLUME	480477.417	3638183.950	128.10
LOCATION L0001148	VOLUME	480473.253	3638197.316	128.37
LOCATION L0001149	VOLUME	480469.089	3638210.682	128.57
LOCATION L0001150	VOLUME	480464.925	3638224.049	128.33
LOCATION L0001151	VOLUME	480460.761	3638237.415	128.04
LOCATION L0001152	VOLUME	480456.597	3638250.782	128.53
LOCATION L0001153	VOLUME	480452.434	3638264.148	128.95
LOCATION L0001154	VOLUME	480448.270	3638277.515	128.76
LOCATION L0001155	VOLUME	480444.106	3638290.881	128.59
LOCATION L0001156	VOLUME	480439.340	3638304.037	128.66
LOCATION L0001157	VOLUME	480434.256	3638317.081	128.83
LOCATION L0001158	VOLUME	480429.173	3638330.126	129.00
LOCATION L0001159	VOLUME	480424.089	3638343.170	129.17
LOCATION L0001160	VOLUME	480419.005	3638356.214	129.34
LOCATION L0001161	VOLUME	480413.922	3638369.259	129.51
LOCATION L0001162	VOLUME	480407.579	3638381.712	129.72
LOCATION L0001163	VOLUME	480400.785	3638393.953	129.94
LOCATION L0001164	VOLUME	480393.992	3638406.194	130.00
LOCATION L0001165	VOLUME	480387.198	3638418.435	130.03
LOCATION L0001166	VOLUME	480379.776	3638430.251	130.30
LOCATION L0001167	VOLUME	480370.942	3638441.112	130.78
LOCATION L0001168	VOLUME	480362.108	3638451.974	130.62
LOCATION L0001169	VOLUME	480353.275	3638462.835	130.21
LOCATION L0001170	VOLUME	480344.441	3638473.696	130.02
LOCATION L0001171	VOLUME	480335.607	3638484.557	129.88
LOCATION L0001172	VOLUME	480326.774	3638495.419	129.59
LOCATION L0001173	VOLUME	480316.755	3638505.095	129.25
LOCATION L0001174	VOLUME	480305.898	3638513.934	129.12
LOCATION L0001175	VOLUME	480295.040	3638522.772	128.82
LOCATION L0001176	VOLUME	480284.183	3638531.611	128.31

LOCATION L0001177	VOLUME	480273.142	3638540.188	127.43
LOCATION L0001178	VOLUME	480261.159	3638547.428	126.43
LOCATION L0001179	VOLUME	480249.177	3638554.669	125.62
LOCATION L0001180	VOLUME	480237.195	3638561.909	124.72
LOCATION L0001181	VOLUME	480225.212	3638569.149	123.59
LOCATION L0001182	VOLUME	480213.235	3638576.398	122.54
LOCATION L0001183	VOLUME	480201.263	3638583.656	121.46
LOCATION L0001184	VOLUME	480189.292	3638590.915	120.19
LOCATION L0001185	VOLUME	480177.321	3638598.174	119.19
LOCATION L0001186	VOLUME	480165.349	3638605.432	118.17
LOCATION L0001187	VOLUME	480152.907	3638611.848	116.96
LOCATION L0001188	VOLUME	480140.454	3638618.246	115.57
LOCATION L0001189	VOLUME	480128.001	3638624.643	114.03
LOCATION L0001190	VOLUME	480115.548	3638631.040	112.53
LOCATION L0001191	VOLUME	480103.043	3638637.274	111.11
LOCATION L0001192	VOLUME	480089.199	3638639.356	109.92
LOCATION L0001193	VOLUME	480075.354	3638641.438	108.48
LOCATION L0001194	VOLUME	480061.404	3638642.372	108.45
LOCATION L0001195	VOLUME	480047.412	3638642.861	109.60
LOCATION L0001196	VOLUME	480033.421	3638643.350	110.15
LOCATION L0001197	VOLUME	480019.429	3638643.838	109.74
LOCATION L0001198	VOLUME	480005.438	3638644.327	109.61
LOCATION L0001199	VOLUME	479991.447	3638644.816	110.38
LOCATION L0001200	VOLUME	479977.455	3638645.308	111.12
LOCATION L0001201	VOLUME	479963.464	3638645.800	111.36
LOCATION L0001202	VOLUME	479949.472	3638646.292	111.66
LOCATION L0001203	VOLUME	479935.481	3638646.784	110.92
LOCATION L0001204	VOLUME	479921.486	3638647.137	110.13
LOCATION L0001205	VOLUME	479907.490	3638647.470	109.50
LOCATION L0001206	VOLUME	479893.494	3638647.803	108.91
LOCATION L0001207	VOLUME	479879.498	3638648.137	107.21
LOCATION L0001208	VOLUME	479865.502	3638648.470	105.01
LOCATION L0001209	VOLUME	479851.506	3638648.803	102.86
LOCATION L0001210	VOLUME	479837.509	3638649.136	100.74
LOCATION L0001211	VOLUME	479823.534	3638649.895	98.70
LOCATION L0001212	VOLUME	479809.570	3638650.899	97.01
LOCATION L0001213	VOLUME	479795.606	3638651.903	95.82

** End of LINE VOLUME Source ID = SLINE1

**

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE2

** DESCRSRC Idle 1

** PREFIX

** Length of Side = 8.59

** Configuration = Adjacent

** Emission Rate = 0.00002661

** Vertical Dimension = 6.99

** SZINIT = 3.25

** Nodes = 2

** 479885.041, 3638719.102, 107.02, 3.49, 4.00

```

** 479918.910, 3638723.071, 103.88, 3.49, 4.00
** -----
LOCATION L0000509      VOLUME  479889.307 3638719.602 106.31
LOCATION L0000510      VOLUME  479897.839 3638720.602 104.96
LOCATION L0000511      VOLUME  479906.370 3638721.602 103.49
LOCATION L0000512      VOLUME  479914.902 3638722.602 101.88
** End of LINE VOLUME Source ID = SLINE2
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Idle 2
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00002661
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 479687.387, 3638691.320, 97.13, 3.49, 4.00
** 479720.991, 3638684.705, 93.57, 3.49, 4.00
** 479729.723, 3638681.265, 94.10, 3.49, 4.00
** -----
LOCATION L0000513      VOLUME  479691.601 3638690.490 97.24
LOCATION L0000514      VOLUME  479700.030 3638688.831 95.79
LOCATION L0000515      VOLUME  479708.458 3638687.172 94.30
LOCATION L0000516      VOLUME  479716.886 3638685.513 94.07
LOCATION L0000517      VOLUME  479725.091 3638683.090 93.98
** End of LINE VOLUME Source ID = SLINE3
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Idle 3
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00002661
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 480036.380, 3638747.547, 107.82, 3.49, 4.00
** 480047.493, 3638749.663, 107.37, 3.49, 4.00
** 480054.902, 3638725.055, 99.09, 3.49, 4.00
** -----
LOCATION L0000518      VOLUME  480040.599 3638748.350 108.17
LOCATION L0000519      VOLUME  480047.946 3638748.158 108.65
LOCATION L0000520      VOLUME  480050.423 3638739.933 106.63
LOCATION L0000521      VOLUME  480052.899 3638731.708 104.22
** End of LINE VOLUME Source ID = SLINE4
** -----
** Line Source Represented by Adjacent Volume Sources

```

```

** LINE VOLUME Source ID = SLINE5
** DESCRSRC Onsite 1
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 5.832E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 14
** 479813.315, 3638660.273, 97.20, 3.49, 4.00
** 479796.645, 3638671.387, 100.64, 3.49, 4.00
** 479787.384, 3638680.913, 101.44, 3.49, 4.00
** 479777.329, 3638708.167, 102.42, 3.49, 4.00
** 479763.569, 3638744.419, 104.94, 3.49, 4.00
** 479733.668, 3638761.354, 106.22, 3.49, 4.00
** 479706.943, 3638775.907, 106.99, 3.49, 4.00
** 479700.063, 3638775.907, 106.80, 3.49, 4.00
** 479688.949, 3638772.203, 106.23, 3.49, 4.00
** 479677.836, 3638765.852, 106.17, 3.49, 4.00
** 479675.984, 3638750.505, 106.94, 3.49, 4.00
** 479677.307, 3638746.536, 106.99, 3.49, 4.00
** 479685.245, 3638743.096, 106.80, 3.49, 4.00
** 479765.157, 3638725.896, 102.11, 3.49, 4.00

```

```

** -----

```

LOCATION	VOLUME			
L0000522	VOLUME	479809.742	3638662.656	98.99
L0000523	VOLUME	479802.595	3638667.420	99.47
L0000524	VOLUME	479795.642	3638672.419	100.06
L0000525	VOLUME	479789.654	3638678.578	100.92
L0000526	VOLUME	479785.538	3638685.917	102.03
L0000527	VOLUME	479782.564	3638693.976	102.38
L0000528	VOLUME	479779.591	3638702.035	102.59
L0000529	VOLUME	479776.600	3638710.087	102.69
L0000530	VOLUME	479773.552	3638718.118	102.76
L0000531	VOLUME	479770.504	3638726.149	103.14
L0000532	VOLUME	479767.455	3638734.180	103.77
L0000533	VOLUME	479764.407	3638742.211	104.58
L0000534	VOLUME	479758.149	3638747.488	105.08
L0000535	VOLUME	479750.675	3638751.722	105.37
L0000536	VOLUME	479743.200	3638755.955	105.65
L0000537	VOLUME	479735.726	3638760.188	105.99
L0000538	VOLUME	479728.201	3638764.331	106.35
L0000539	VOLUME	479720.657	3638768.439	106.64
L0000540	VOLUME	479713.113	3638772.547	106.86
L0000541	VOLUME	479705.379	3638775.907	106.87
L0000542	VOLUME	479696.957	3638774.872	106.59
L0000543	VOLUME	479688.820	3638772.128	106.37
L0000544	VOLUME	479681.361	3638767.867	106.31
L0000545	VOLUME	479677.293	3638761.355	106.50
L0000546	VOLUME	479676.264	3638752.827	106.83
L0000547	VOLUME	479679.203	3638745.714	106.94

LOCATION L0000548	VOLUME	479687.205	3638742.674	106.31
LOCATION L0000549	VOLUME	479695.603	3638740.866	105.72
LOCATION L0000550	VOLUME	479704.001	3638739.059	105.06
LOCATION L0000551	VOLUME	479712.398	3638737.251	104.42
LOCATION L0000552	VOLUME	479720.796	3638735.444	103.95
LOCATION L0000553	VOLUME	479729.194	3638733.636	103.51
LOCATION L0000554	VOLUME	479737.591	3638731.829	103.10
LOCATION L0000555	VOLUME	479745.989	3638730.022	102.96
LOCATION L0000556	VOLUME	479754.387	3638728.214	102.90
LOCATION L0000557	VOLUME	479762.785	3638726.407	102.88

** End of LINE VOLUME Source ID = SLINE5

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE6

** DESCRSRC Onsite 2

** PREFIX

** Length of Side = 8.59

** Configuration = Adjacent

** Emission Rate = 2.169E-06

** Vertical Dimension = 6.99

** SZINIT = 3.25

** Nodes = 8

** 479788.707, 3638654.981, 96.02, 3.49, 4.00

** 479774.153, 3638658.156, 95.74, 3.49, 4.00

** 479755.102, 3638665.565, 93.74, 3.49, 4.00

** 479736.579, 3638676.679, 95.12, 3.49, 4.00

** 479710.912, 3638686.999, 93.98, 3.49, 4.00

** 479701.121, 3638689.115, 94.00, 3.49, 4.00

** 479686.833, 3638691.497, 97.20, 3.49, 4.00

** 479684.186, 3638695.995, 97.22, 3.49, 4.00

** -----

LOCATION L0000558	VOLUME	479784.511	3638655.896	96.41
LOCATION L0000559	VOLUME	479776.118	3638657.728	96.49
LOCATION L0000560	VOLUME	479768.022	3638660.541	96.62
LOCATION L0000561	VOLUME	479760.016	3638663.654	96.33
LOCATION L0000562	VOLUME	479752.257	3638667.272	95.89
LOCATION L0000563	VOLUME	479744.891	3638671.692	95.29
LOCATION L0000564	VOLUME	479737.525	3638676.111	94.45
LOCATION L0000565	VOLUME	479729.633	3638679.472	93.81
LOCATION L0000566	VOLUME	479721.663	3638682.676	93.68
LOCATION L0000567	VOLUME	479713.693	3638685.880	94.05
LOCATION L0000568	VOLUME	479705.446	3638688.180	94.93
LOCATION L0000569	VOLUME	479697.012	3638689.800	96.40
LOCATION L0000570	VOLUME	479688.539	3638691.212	97.79

** End of LINE VOLUME Source ID = SLINE6

** -----

** Line Source Represented by Adjacent Volume Sources

** LINE VOLUME Source ID = SLINE7

** DESCRSRC Onsite 3

** PREFIX

```

** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 1.931E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 6
** 480065.223, 3638659.744, 105.39, 3.49, 4.00
** 480064.694, 3638670.064, 100.91, 3.49, 4.00
** 480065.752, 3638679.854, 97.71, 3.49, 4.00
** 480063.106, 3638692.820, 97.45, 3.49, 4.00
** 480047.494, 3638750.505, 107.35, 3.49, 4.00
** 480039.027, 3638748.652, 107.88, 3.49, 4.00

```

```

** -----
LOCATION L0000571      VOLUME  480065.003 3638664.033 103.22
LOCATION L0000572      VOLUME  480064.968 3638672.601 100.66
LOCATION L0000573      VOLUME  480065.493 3638681.122 98.15
LOCATION L0000574      VOLUME  480063.776 3638689.539 97.05
LOCATION L0000575      VOLUME  480061.737 3638697.879 98.21
LOCATION L0000576      VOLUME  480059.493 3638706.171 99.17
LOCATION L0000577      VOLUME  480057.249 3638714.462 99.97
LOCATION L0000578      VOLUME  480055.005 3638722.754 101.74
LOCATION L0000579      VOLUME  480052.761 3638731.046 103.98
LOCATION L0000580      VOLUME  480050.517 3638739.337 106.43
LOCATION L0000581      VOLUME  480048.272 3638747.629 108.66
LOCATION L0000582      VOLUME  480042.013 3638749.306 108.29

```

```

** End of LINE VOLUME Source ID = SLINE7

```

```

** -----
** Line Source Represented by Adjacent Volume Sources

```

```

** LINE VOLUME Source ID = SLINE8

```

```

** DESCRSRC Idle 4

```

```

** PREFIX

```

```

** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00002661
** Vertical Dimension = 6.99
** SZINIT = 3.25

```

```

** Nodes = 3
** 479710.902, 3638824.837, 105.52, 3.49, 4.00
** 479717.425, 3638833.834, 105.17, 3.49, 4.00
** 479729.346, 3638827.986, 105.27, 3.49, 4.00

```

```

** -----
LOCATION L0000583      VOLUME  479713.423 3638828.315 105.57
LOCATION L0000584      VOLUME  479719.016 3638833.054 105.25
LOCATION L0000585      VOLUME  479726.728 3638829.270 105.60

```

```

** End of LINE VOLUME Source ID = SLINE8

```

```

** -----
** Line Source Represented by Adjacent Volume Sources

```

```

** LINE VOLUME Source ID = SLINE9

```

```

** DESCRSRC Idle 5

```

```

** PREFIX

```

```

** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00002661
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 479945.270, 3638702.480, 98.60, 3.49, 4.00
** 479965.288, 3638688.760, 103.64, 3.49, 4.00

```

```

-----
LOCATION L0000586      VOLUME  479948.813 3638700.052 100.55
LOCATION L0000587      VOLUME  479955.898 3638695.196 101.00
LOCATION L0000588      VOLUME  479962.984 3638690.340 101.53

```

```

** End of LINE VOLUME Source ID = SLINE9

```

```

-----
** Line Source Represented by Adjacent Volume Sources

```

```

** LINE VOLUME Source ID = SLINE10

```

```

** DESCRSRC Onsite 4

```

```

** PREFIX

```

```

** Length of Side = 8.59

```

```

** Configuration = Adjacent

```

```

** Emission Rate = 6.5E-06

```

```

** Vertical Dimension = 6.99

```

```

** SZINIT = 3.25

```

```

** Nodes = 10

```

```

** 479994.753, 3638660.420, 108.92, 3.49, 4.00
** 479980.808, 3638685.386, 100.03, 3.49, 4.00
** 479908.608, 3638737.793, 95.96, 3.49, 4.00
** 479888.815, 3638752.863, 100.89, 3.49, 4.00
** 479867.897, 3638764.784, 99.16, 3.49, 4.00
** 479818.190, 3638779.853, 105.91, 3.49, 4.00
** 479798.846, 3638786.376, 107.61, 3.49, 4.00
** 479788.050, 3638794.248, 106.29, 3.49, 4.00
** 479717.875, 3638833.384, 105.19, 3.49, 4.00
** 479711.577, 3638825.962, 105.42, 3.49, 4.00

```

```

-----
LOCATION L0000592      VOLUME  479992.658 3638664.170 105.53
LOCATION L0000593      VOLUME  479988.469 3638671.669 103.28
LOCATION L0000594      VOLUME  479984.280 3638679.169 101.32
LOCATION L0000595      VOLUME  479979.619 3638686.249 99.88
LOCATION L0000596      VOLUME  479972.668 3638691.295 99.14
LOCATION L0000597      VOLUME  479965.716 3638696.341 98.46
LOCATION L0000598      VOLUME  479958.764 3638701.387 97.85
LOCATION L0000599      VOLUME  479951.813 3638706.433 97.33
LOCATION L0000600      VOLUME  479944.861 3638711.479 97.19
LOCATION L0000601      VOLUME  479937.909 3638716.525 97.62
LOCATION L0000602      VOLUME  479930.957 3638721.571 97.82
LOCATION L0000603      VOLUME  479924.006 3638726.616 97.93
LOCATION L0000604      VOLUME  479917.054 3638731.662 97.77
LOCATION L0000605      VOLUME  479910.102 3638736.708 97.47
LOCATION L0000606      VOLUME  479903.242 3638741.878 97.65

```

LOCATION	L0000607	VOLUME	479896.408	3638747.082	98.28
LOCATION	L0000608	VOLUME	479889.573	3638752.285	98.83
LOCATION	L0000609	VOLUME	479882.180	3638756.644	98.63
LOCATION	L0000610	VOLUME	479874.717	3638760.897	98.73
LOCATION	L0000611	VOLUME	479867.188	3638764.998	99.23
LOCATION	L0000612	VOLUME	479858.968	3638767.491	100.48
LOCATION	L0000613	VOLUME	479850.747	3638769.983	101.49
LOCATION	L0000614	VOLUME	479842.527	3638772.475	102.67
LOCATION	L0000615	VOLUME	479834.306	3638774.967	104.04
LOCATION	L0000616	VOLUME	479826.086	3638777.459	105.22
LOCATION	L0000617	VOLUME	479817.868	3638779.962	105.88
LOCATION	L0000618	VOLUME	479809.729	3638782.706	106.51
LOCATION	L0000619	VOLUME	479801.589	3638785.451	107.14
LOCATION	L0000620	VOLUME	479794.244	3638789.732	107.01
LOCATION	L0000621	VOLUME	479787.243	3638794.698	106.62
LOCATION	L0000622	VOLUME	479779.741	3638798.882	106.33
LOCATION	L0000623	VOLUME	479772.239	3638803.066	106.12
LOCATION	L0000624	VOLUME	479764.737	3638807.250	106.22
LOCATION	L0000625	VOLUME	479757.234	3638811.434	106.38
LOCATION	L0000626	VOLUME	479749.732	3638815.618	106.47
LOCATION	L0000627	VOLUME	479742.230	3638819.802	106.48
LOCATION	L0000628	VOLUME	479734.728	3638823.986	106.17
LOCATION	L0000629	VOLUME	479727.226	3638828.170	105.70
LOCATION	L0000630	VOLUME	479719.723	3638832.354	105.31
LOCATION	L0000631	VOLUME	479713.687	3638836.538	105.56
**	End of LINE	VOLUME	Source ID =	SLINE10	
LOCATION	STCK1	POINT	479852.949	3638783.790	99.130
**	DESCRSRC	Generator 1			
LOCATION	STCK2	POINT	479843.502	3638786.934	100.900
**	DESCRSRC	Generator 2			
LOCATION	STCK3	POINT	479596.060	3638885.686	101.620
**	DESCRSRC	Generator 3			
LOCATION	STCK4	POINT	479603.033	3638885.461	102.260
**	DESCRSRC	Generator 4			
LOCATION	STCK5	POINT	479615.405	3638679.184	100.840
**	DESCRSRC	Generator 5			
LOCATION	STCK6	POINT	479595.610	3638679.184	102.160
**	DESCRSRC	Generator 6			
**	Source Parameters	**			
**	LINE	VOLUME	Source ID =	SLINE1	
SRCPARAM	L0001020	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001021	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001022	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001023	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001024	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001025	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001026	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001027	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001028	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001029	0.0000004721	3.49	6.51	3.25

SRCPARAM	L0001180	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001181	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001182	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001183	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001184	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001185	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001186	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001187	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001188	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001189	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001190	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001191	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001192	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001193	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001194	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001195	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001196	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001197	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001198	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001199	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001200	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001201	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001202	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001203	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001204	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001205	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001206	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001207	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001208	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001209	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001210	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001211	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001212	0.0000004721	3.49	6.51	3.25
SRCPARAM	L0001213	0.0000004721	3.49	6.51	3.25

**

** -----
 ** LINE VOLUME Source ID = SLINE2

SRCPARAM	L0000509	0.000006653	3.49	4.00	3.25
SRCPARAM	L0000510	0.000006653	3.49	4.00	3.25
SRCPARAM	L0000511	0.000006653	3.49	4.00	3.25
SRCPARAM	L0000512	0.000006653	3.49	4.00	3.25

**

** -----
 ** LINE VOLUME Source ID = SLINE3

SRCPARAM	L0000513	0.000005322	3.49	4.00	3.25
SRCPARAM	L0000514	0.000005322	3.49	4.00	3.25
SRCPARAM	L0000515	0.000005322	3.49	4.00	3.25
SRCPARAM	L0000516	0.000005322	3.49	4.00	3.25
SRCPARAM	L0000517	0.000005322	3.49	4.00	3.25

**

** -----
 ** LINE VOLUME Source ID = SLINE4

SRCPARAM	L0000518	0.000006653	3.49	4.00	3.25
----------	----------	-------------	------	------	------

SRCPARAM	L0000519	0.000006653	3.49	4.00	3.25
SRCPARAM	L0000520	0.000006653	3.49	4.00	3.25
SRCPARAM	L0000521	0.000006653	3.49	4.00	3.25

**

** LINE VOLUME Source ID = SLINE5

SRCPARAM	L0000522	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000523	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000524	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000525	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000526	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000527	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000528	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000529	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000530	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000531	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000532	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000533	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000534	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000535	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000536	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000537	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000538	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000539	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000540	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000541	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000542	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000543	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000544	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000545	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000546	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000547	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000548	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000549	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000550	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000551	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000552	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000553	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000554	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000555	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000556	0.000000162	3.49	4.00	3.25
SRCPARAM	L0000557	0.000000162	3.49	4.00	3.25

**

** LINE VOLUME Source ID = SLINE6

SRCPARAM	L0000558	0.0000001668	3.49	4.00	3.25
SRCPARAM	L0000559	0.0000001668	3.49	4.00	3.25
SRCPARAM	L0000560	0.0000001668	3.49	4.00	3.25
SRCPARAM	L0000561	0.0000001668	3.49	4.00	3.25
SRCPARAM	L0000562	0.0000001668	3.49	4.00	3.25
SRCPARAM	L0000563	0.0000001668	3.49	4.00	3.25
SRCPARAM	L0000564	0.0000001668	3.49	4.00	3.25

SRCPARAM L0000565	0.0000001668	3.49	4.00	3.25
SRCPARAM L0000566	0.0000001668	3.49	4.00	3.25
SRCPARAM L0000567	0.0000001668	3.49	4.00	3.25
SRCPARAM L0000568	0.0000001668	3.49	4.00	3.25
SRCPARAM L0000569	0.0000001668	3.49	4.00	3.25
SRCPARAM L0000570	0.0000001668	3.49	4.00	3.25

**

** LINE VOLUME Source ID = SLINE7

SRCPARAM L0000571	0.0000001609	3.49	4.00	3.25
SRCPARAM L0000572	0.0000001609	3.49	4.00	3.25
SRCPARAM L0000573	0.0000001609	3.49	4.00	3.25
SRCPARAM L0000574	0.0000001609	3.49	4.00	3.25
SRCPARAM L0000575	0.0000001609	3.49	4.00	3.25
SRCPARAM L0000576	0.0000001609	3.49	4.00	3.25
SRCPARAM L0000577	0.0000001609	3.49	4.00	3.25
SRCPARAM L0000578	0.0000001609	3.49	4.00	3.25
SRCPARAM L0000579	0.0000001609	3.49	4.00	3.25
SRCPARAM L0000580	0.0000001609	3.49	4.00	3.25
SRCPARAM L0000581	0.0000001609	3.49	4.00	3.25
SRCPARAM L0000582	0.0000001609	3.49	4.00	3.25

**

** LINE VOLUME Source ID = SLINE8

SRCPARAM L0000583	0.00000887	3.49	4.00	3.25
SRCPARAM L0000584	0.00000887	3.49	4.00	3.25
SRCPARAM L0000585	0.00000887	3.49	4.00	3.25

**

** LINE VOLUME Source ID = SLINE9

SRCPARAM L0000586	0.00000887	3.49	4.00	3.25
SRCPARAM L0000587	0.00000887	3.49	4.00	3.25
SRCPARAM L0000588	0.00000887	3.49	4.00	3.25

**

** LINE VOLUME Source ID = SLINE10

SRCPARAM L0000592	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000593	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000594	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000595	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000596	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000597	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000598	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000599	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000600	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000601	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000602	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000603	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000604	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000605	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000606	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000607	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000608	0.0000001625	3.49	4.00	3.25
SRCPARAM L0000609	0.0000001625	3.49	4.00	3.25

EMISFACT STCK6 HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6 HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6 HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6 HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6 HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6 HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6 HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT STCK6 HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP ALL

SO FINISHED

**

** AERMOD Receptor Pathway

**

**

RE STARTING

INCLUDED "13564 Ops.rou"

RE FINISHED

**

** AERMOD Meteorology Pathway

**

**

ME STARTING

SURFFILE 722931.SFC

PROFFILE 722931.PFL

SURFDATA 93107 2009

UAIRDATA 3190 2009

PROFBASE 145.4 METERS

ME FINISHED

**

** AERMOD Output Pathway

**

**

OU STARTING

** Auto-Generated Plotfiles

PLOTFILE ANNUAL ALL "13564 OPS.AD\AN00GALL.PLT" 31

SUMMFILE "13564 Ops.sum"

OU FINISHED

*** SETUP Finishes Successfully ***

*** AERMET - VERSION 14134 ***
*** 17:14:00

PAGE 1
*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** MODEL SETUP OPTIONS SUMMARY

** Model Options Selected:

- * Model Uses Regulatory DEFAULT Options
- * Model Is Setup For Calculation of Average CONCentration Values.
- * NO GAS DEPOSITION Data Provided.
- * NO PARTICLE DEPOSITION Data Provided.
- * Model Uses NO DRY DEPLETION. DDPLETE = F
- * Model Uses NO WET DEPLETION. WETDPLT = F
- * Stack-tip Downwash.
- * Model Accounts for ELEVated Terrain Effects.
- * Use Calms Processing Routine.
- * Use Missing Data Processing Routine.
- * No Exponential Decay.
- * Model Uses RURAL Dispersion Only.
- * CCVR_Sub - Meteorological data includes CCVR substitutions
- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * Model Assumes No FLAGPOLE Receptor Heights.
- * The User Specified a Pollutant Type of: DPM

**Model Calculates ANNUAL Averages Only

**This Run Includes: 320 Source(s); 1 Source Group(s); and 95 Receptor(s)

with: 6 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 314 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor
 Model Outputs External File(s) of High Values for Plotting (PLOTFILE
 Keyword)
 Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
 Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
 m for Missing
 Hours
 b for Both Calm
 and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 145.40 ; Decay
 Coef. = 0.000 ; Rot. Angle = 0.0
 Emission Units = GRAMS/SEC ;
 Emission Rate Unit Factor = 0.10000E+07
 Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.1 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 13564 Ops.err

**File for Summary of Results: 13564 Ops.sum

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
 Towne Centre View\13564 C *** 02/21/23
 *** AERMET - VERSION 14134 *** ***
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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** POINT SOURCE DATA ***

STACK	STACK	BLDG	URBAN	CAP/	EMIS	RATE	BASE	STACK	STACK
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	TEMP.		
EXIT VEL.	DIAMETER	EXISTS	SOURCE	HOR	SCALAR	(METERS)	(METERS)	(METERS)	(DEG.K)
ID	CATS.				(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)
(M/SEC)	(METERS)				VARY BY				

STCK1 0 0.38604E-01 479852.9 3638783.8 99.1 6.33 727.14

40.24	0.45	NO	NO	NO	HRDOW7				
STCK2		0	0.38604E-01	479843.5	3638786.9	100.9	6.33	727.14	
40.24	0.45	NO	NO	NO	HRDOW7				
STCK3		0	0.38604E-01	479596.1	3638885.7	101.6	6.33	727.14	
40.24	0.45	NO	NO	NO	HRDOW7				
STCK4		0	0.38604E-01	479603.0	3638885.5	102.3	6.33	727.14	
40.24	0.45	NO	NO	NO	HRDOW7				
STCK5		0	0.38604E-01	479615.4	3638679.2	100.8	6.33	727.14	
40.24	0.45	NO	NO	NO	HRDOW7				
STCK6		0	0.38604E-01	479595.6	3638679.2	102.2	6.33	727.14	
40.24	0.45	NO	NO	NO	HRDOW7				

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0001020		0	0.47210E-06	481505.7	3637490.6	119.2	3.49	6.51
3.25	NO							
L0001021		0	0.47210E-06	481491.9	3637488.3	118.1	3.49	6.51
3.25	NO							
L0001022		0	0.47210E-06	481478.1	3637486.0	116.8	3.49	6.51
3.25	NO							
L0001023		0	0.47210E-06	481464.3	3637483.7	114.0	3.49	6.51
3.25	NO							
L0001024		0	0.47210E-06	481450.5	3637481.4	111.1	3.49	6.51
3.25	NO							
L0001025		0	0.47210E-06	481436.7	3637479.1	110.1	3.49	6.51
3.25	NO							
L0001026		0	0.47210E-06	481422.9	3637476.9	108.5	3.49	6.51
3.25	NO							
L0001027		0	0.47210E-06	481409.0	3637474.6	107.3	3.49	6.51
3.25	NO							
L0001028		0	0.47210E-06	481395.2	3637472.3	106.1	3.49	6.51
3.25	NO							
L0001029		0	0.47210E-06	481381.4	3637470.0	105.4	3.49	6.51

3.25	NO							
L0001030		0	0.47210E-06	481367.6	3637467.7	105.5	3.49	6.51
3.25	NO							
L0001031		0	0.47210E-06	481353.8	3637465.4	105.4	3.49	6.51
3.25	NO							
L0001032		0	0.47210E-06	481340.0	3637463.1	104.7	3.49	6.51
3.25	NO							
L0001033		0	0.47210E-06	481326.2	3637460.8	103.9	3.49	6.51
3.25	NO							
L0001034		0	0.47210E-06	481312.4	3637458.5	103.3	3.49	6.51
3.25	NO							
L0001035		0	0.47210E-06	481298.6	3637456.3	102.9	3.49	6.51
3.25	NO							
L0001036		0	0.47210E-06	481284.7	3637454.0	99.6	3.49	6.51
3.25	NO							
L0001037		0	0.47210E-06	481270.9	3637451.7	97.6	3.49	6.51
3.25	NO							
L0001038		0	0.47210E-06	481257.1	3637449.4	94.6	3.49	6.51
3.25	NO							
L0001039		0	0.47210E-06	481243.3	3637447.1	91.3	3.49	6.51
3.25	NO							
L0001040		0	0.47210E-06	481229.5	3637444.8	87.9	3.49	6.51
3.25	NO							
L0001041		0	0.47210E-06	481215.7	3637442.5	84.6	3.49	6.51
3.25	NO							
L0001042		0	0.47210E-06	481201.9	3637440.2	87.9	3.49	6.51
3.25	NO							
L0001043		0	0.47210E-06	481188.1	3637438.0	97.3	3.49	6.51
3.25	NO							
L0001044		0	0.47210E-06	481174.2	3637435.7	102.3	3.49	6.51
3.25	NO							
L0001045		0	0.47210E-06	481160.4	3637433.4	99.7	3.49	6.51
3.25	NO							
L0001046		0	0.47210E-06	481146.6	3637431.1	98.0	3.49	6.51
3.25	NO							
L0001047		0	0.47210E-06	481132.8	3637428.8	100.8	3.49	6.51
3.25	NO							
L0001048		0	0.47210E-06	481119.0	3637426.5	103.6	3.49	6.51
3.25	NO							
L0001049		0	0.47210E-06	481105.2	3637424.2	109.3	3.49	6.51
3.25	NO							
L0001050		0	0.47210E-06	481091.4	3637421.9	114.2	3.49	6.51
3.25	NO							
L0001051		0	0.47210E-06	481077.6	3637419.6	114.6	3.49	6.51
3.25	NO							
L0001052		0	0.47210E-06	481063.8	3637417.4	114.4	3.49	6.51
3.25	NO							
L0001053		0	0.47210E-06	481049.9	3637415.1	114.3	3.49	6.51
3.25	NO							
L0001054		0	0.47210E-06	481036.1	3637412.8	114.2	3.49	6.51

3.25	NO	L0001055	0	0.47210E-06	481022.3	3637410.5	114.0	3.49	6.51
3.25	NO	L0001056	0	0.47210E-06	481008.5	3637408.2	113.8	3.49	6.51
3.25	NO	L0001057	0	0.47210E-06	480994.7	3637405.9	114.0	3.49	6.51
3.25	NO	L0001058	0	0.47210E-06	480980.9	3637403.6	115.2	3.49	6.51
3.25	NO	L0001059	0	0.47210E-06	480967.1	3637401.3	115.9	3.49	6.51

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	PART.	(GRAMS/SEC)			X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID	CATS.	BY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)									

L0001060	0	0.47210E-06	480953.3	3637399.0	113.0	3.49	6.51		
3.25	NO	L0001061	0	0.47210E-06	480939.4	3637396.8	109.8	3.49	6.51
3.25	NO	L0001062	0	0.47210E-06	480925.6	3637394.5	108.0	3.49	6.51
3.25	NO	L0001063	0	0.47210E-06	480911.8	3637392.2	106.4	3.49	6.51
3.25	NO	L0001064	0	0.47210E-06	480898.0	3637389.9	102.8	3.49	6.51
3.25	NO	L0001065	0	0.47210E-06	480884.2	3637387.6	98.9	3.49	6.51
3.25	NO	L0001066	0	0.47210E-06	480870.4	3637385.3	94.4	3.49	6.51
3.25	NO	L0001067	0	0.47210E-06	480856.6	3637383.0	89.4	3.49	6.51
3.25	NO	L0001068	0	0.47210E-06	480842.8	3637380.8	89.5	3.49	6.51
3.25	NO	L0001069	0	0.47210E-06	480828.9	3637378.6	95.3	3.49	6.51

3.25	NO							
L0001070		0	0.47210E-06	480815.1	3637376.4	99.6	3.49	6.51
3.25	NO							
L0001071		0	0.47210E-06	480801.3	3637374.2	100.3	3.49	6.51
3.25	NO							
L0001072		0	0.47210E-06	480787.4	3637372.1	101.7	3.49	6.51
3.25	NO							
L0001073		0	0.47210E-06	480773.6	3637369.9	106.4	3.49	6.51
3.25	NO							
L0001074		0	0.47210E-06	480759.8	3637367.7	111.0	3.49	6.51
3.25	NO							
L0001075		0	0.47210E-06	480746.0	3637365.5	113.0	3.49	6.51
3.25	NO							
L0001076		0	0.47210E-06	480732.1	3637363.3	114.3	3.49	6.51
3.25	NO							
L0001077		0	0.47210E-06	480718.3	3637361.1	113.0	3.49	6.51
3.25	NO							
L0001078		0	0.47210E-06	480704.5	3637358.9	110.9	3.49	6.51
3.25	NO							
L0001079		0	0.47210E-06	480690.6	3637356.7	108.5	3.49	6.51
3.25	NO							
L0001080		0	0.47210E-06	480676.8	3637354.5	105.8	3.49	6.51
3.25	NO							
L0001081		0	0.47210E-06	480663.0	3637352.4	104.6	3.49	6.51
3.25	NO							
L0001082		0	0.47210E-06	480649.2	3637350.2	105.2	3.49	6.51
3.25	NO							
L0001083		0	0.47210E-06	480635.3	3637348.0	106.1	3.49	6.51
3.25	NO							
L0001084		0	0.47210E-06	480621.5	3637345.8	107.9	3.49	6.51
3.25	NO							
L0001085		0	0.47210E-06	480607.7	3637343.6	110.3	3.49	6.51
3.25	NO							
L0001086		0	0.47210E-06	480597.6	3637346.6	112.2	3.49	6.51
3.25	NO							
L0001087		0	0.47210E-06	480595.3	3637360.4	112.4	3.49	6.51
3.25	NO							
L0001088		0	0.47210E-06	480592.9	3637374.2	113.8	3.49	6.51
3.25	NO							
L0001089		0	0.47210E-06	480592.0	3637388.2	115.7	3.49	6.51
3.25	NO							
L0001090		0	0.47210E-06	480591.3	3637402.2	117.1	3.49	6.51
3.25	NO							
L0001091		0	0.47210E-06	480590.7	3637416.2	118.0	3.49	6.51
3.25	NO							
L0001092		0	0.47210E-06	480590.0	3637430.1	118.6	3.49	6.51
3.25	NO							
L0001093		0	0.47210E-06	480589.3	3637444.1	118.6	3.49	6.51
3.25	NO							
L0001094		0	0.47210E-06	480588.6	3637458.1	119.6	3.49	6.51

3.25	NO	L0001095	0	0.47210E-06	480587.7	3637472.1	118.3	3.49	6.51
3.25	NO	L0001096	0	0.47210E-06	480586.8	3637486.0	117.0	3.49	6.51
3.25	NO	L0001097	0	0.47210E-06	480585.9	3637500.0	114.1	3.49	6.51
3.25	NO	L0001098	0	0.47210E-06	480585.1	3637514.0	111.3	3.49	6.51
3.25	NO	L0001099	0	0.47210E-06	480584.3	3637528.0	111.5	3.49	6.51

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE		X	Y	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					

L0001100	0	0.47210E-06	480584.7	3637542.0	112.3	3.49	6.51		
3.25	NO	L0001101	0	0.47210E-06	480585.1	3637556.0	113.7	3.49	6.51
3.25	NO	L0001102	0	0.47210E-06	480585.4	3637569.9	115.5	3.49	6.51
3.25	NO	L0001103	0	0.47210E-06	480585.8	3637583.9	116.6	3.49	6.51
3.25	NO	L0001104	0	0.47210E-06	480586.2	3637597.9	117.2	3.49	6.51
3.25	NO	L0001105	0	0.47210E-06	480586.5	3637611.9	117.5	3.49	6.51
3.25	NO	L0001106	0	0.47210E-06	480586.9	3637625.9	117.3	3.49	6.51
3.25	NO	L0001107	0	0.47210E-06	480587.2	3637639.9	117.3	3.49	6.51
3.25	NO	L0001108	0	0.47210E-06	480587.5	3637653.9	117.6	3.49	6.51
3.25	NO	L0001109	0	0.47210E-06	480587.9	3637667.9	117.9	3.49	6.51

3.25	NO							
L0001110		0	0.47210E-06	480588.2	3637681.9	118.1	3.49	6.51
3.25	NO							
L0001111		0	0.47210E-06	480588.5	3637695.9	118.4	3.49	6.51
3.25	NO							
L0001112		0	0.47210E-06	480588.8	3637709.9	118.8	3.49	6.51
3.25	NO							
L0001113		0	0.47210E-06	480589.1	3637723.9	119.2	3.49	6.51
3.25	NO							
L0001114		0	0.47210E-06	480589.3	3637737.9	119.7	3.49	6.51
3.25	NO							
L0001115		0	0.47210E-06	480588.5	3637751.9	120.2	3.49	6.51
3.25	NO							
L0001116		0	0.47210E-06	480587.7	3637765.9	120.8	3.49	6.51
3.25	NO							
L0001117		0	0.47210E-06	480586.9	3637779.8	121.5	3.49	6.51
3.25	NO							
L0001118		0	0.47210E-06	480586.1	3637793.8	122.0	3.49	6.51
3.25	NO							
L0001119		0	0.47210E-06	480585.4	3637807.8	122.5	3.49	6.51
3.25	NO							
L0001120		0	0.47210E-06	480583.7	3637821.7	122.8	3.49	6.51
3.25	NO							
L0001121		0	0.47210E-06	480581.0	3637835.4	122.9	3.49	6.51
3.25	NO							
L0001122		0	0.47210E-06	480578.3	3637849.1	123.1	3.49	6.51
3.25	NO							
L0001123		0	0.47210E-06	480575.6	3637862.9	123.7	3.49	6.51
3.25	NO							
L0001124		0	0.47210E-06	480572.9	3637876.6	124.2	3.49	6.51
3.25	NO							
L0001125		0	0.47210E-06	480570.2	3637890.3	124.8	3.49	6.51
3.25	NO							
L0001126		0	0.47210E-06	480567.3	3637904.0	125.3	3.49	6.51
3.25	NO							
L0001127		0	0.47210E-06	480563.1	3637917.4	125.5	3.49	6.51
3.25	NO							
L0001128		0	0.47210E-06	480558.8	3637930.7	125.7	3.49	6.51
3.25	NO							
L0001129		0	0.47210E-06	480554.5	3637944.0	125.8	3.49	6.51
3.25	NO							
L0001130		0	0.47210E-06	480550.2	3637957.4	126.0	3.49	6.51
3.25	NO							
L0001131		0	0.47210E-06	480545.9	3637970.7	126.1	3.49	6.51
3.25	NO							
L0001132		0	0.47210E-06	480541.6	3637984.0	126.4	3.49	6.51
3.25	NO							
L0001133		0	0.47210E-06	480537.3	3637997.3	126.8	3.49	6.51
3.25	NO							
L0001134		0	0.47210E-06	480533.1	3638010.7	127.3	3.49	6.51

3.25	NO	L0001135	0	0.47210E-06	480528.8	3638024.0	127.6	3.49	6.51
3.25	NO	L0001136	0	0.47210E-06	480524.5	3638037.3	127.8	3.49	6.51
3.25	NO	L0001137	0	0.47210E-06	480520.2	3638050.6	128.0	3.49	6.51
3.25	NO	L0001138	0	0.47210E-06	480515.9	3638064.0	128.0	3.49	6.51
3.25	NO	L0001139	0	0.47210E-06	480511.6	3638077.3	128.0	3.49	6.51

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY						

L0001140	0	0.47210E-06	480507.3	3638090.6	127.9	3.49	6.51		
3.25	NO	L0001141	0	0.47210E-06	480503.1	3638104.0	127.7	3.49	6.51
3.25	NO	L0001142	0	0.47210E-06	480498.8	3638117.3	127.7	3.49	6.51
3.25	NO	L0001143	0	0.47210E-06	480494.5	3638130.6	127.8	3.49	6.51
3.25	NO	L0001144	0	0.47210E-06	480490.2	3638143.9	128.0	3.49	6.51
3.25	NO	L0001145	0	0.47210E-06	480485.9	3638157.3	128.0	3.49	6.51
3.25	NO	L0001146	0	0.47210E-06	480481.6	3638170.6	128.0	3.49	6.51
3.25	NO	L0001147	0	0.47210E-06	480477.4	3638183.9	128.1	3.49	6.51
3.25	NO	L0001148	0	0.47210E-06	480473.3	3638197.3	128.4	3.49	6.51
3.25	NO	L0001149	0	0.47210E-06	480469.1	3638210.7	128.6	3.49	6.51

3.25	NO							
L0001150		0	0.47210E-06	480464.9	3638224.0	128.3	3.49	6.51
3.25	NO							
L0001151		0	0.47210E-06	480460.8	3638237.4	128.0	3.49	6.51
3.25	NO							
L0001152		0	0.47210E-06	480456.6	3638250.8	128.5	3.49	6.51
3.25	NO							
L0001153		0	0.47210E-06	480452.4	3638264.1	129.0	3.49	6.51
3.25	NO							
L0001154		0	0.47210E-06	480448.3	3638277.5	128.8	3.49	6.51
3.25	NO							
L0001155		0	0.47210E-06	480444.1	3638290.9	128.6	3.49	6.51
3.25	NO							
L0001156		0	0.47210E-06	480439.3	3638304.0	128.7	3.49	6.51
3.25	NO							
L0001157		0	0.47210E-06	480434.3	3638317.1	128.8	3.49	6.51
3.25	NO							
L0001158		0	0.47210E-06	480429.2	3638330.1	129.0	3.49	6.51
3.25	NO							
L0001159		0	0.47210E-06	480424.1	3638343.2	129.2	3.49	6.51
3.25	NO							
L0001160		0	0.47210E-06	480419.0	3638356.2	129.3	3.49	6.51
3.25	NO							
L0001161		0	0.47210E-06	480413.9	3638369.3	129.5	3.49	6.51
3.25	NO							
L0001162		0	0.47210E-06	480407.6	3638381.7	129.7	3.49	6.51
3.25	NO							
L0001163		0	0.47210E-06	480400.8	3638394.0	129.9	3.49	6.51
3.25	NO							
L0001164		0	0.47210E-06	480394.0	3638406.2	130.0	3.49	6.51
3.25	NO							
L0001165		0	0.47210E-06	480387.2	3638418.4	130.0	3.49	6.51
3.25	NO							
L0001166		0	0.47210E-06	480379.8	3638430.3	130.3	3.49	6.51
3.25	NO							
L0001167		0	0.47210E-06	480370.9	3638441.1	130.8	3.49	6.51
3.25	NO							
L0001168		0	0.47210E-06	480362.1	3638452.0	130.6	3.49	6.51
3.25	NO							
L0001169		0	0.47210E-06	480353.3	3638462.8	130.2	3.49	6.51
3.25	NO							
L0001170		0	0.47210E-06	480344.4	3638473.7	130.0	3.49	6.51
3.25	NO							
L0001171		0	0.47210E-06	480335.6	3638484.6	129.9	3.49	6.51
3.25	NO							
L0001172		0	0.47210E-06	480326.8	3638495.4	129.6	3.49	6.51
3.25	NO							
L0001173		0	0.47210E-06	480316.8	3638505.1	129.2	3.49	6.51
3.25	NO							
L0001174		0	0.47210E-06	480305.9	3638513.9	129.1	3.49	6.51

3.25	NO	L0001175	0	0.47210E-06	480295.0	3638522.8	128.8	3.49	6.51
3.25	NO	L0001176	0	0.47210E-06	480284.2	3638531.6	128.3	3.49	6.51
3.25	NO	L0001177	0	0.47210E-06	480273.1	3638540.2	127.4	3.49	6.51
3.25	NO	L0001178	0	0.47210E-06	480261.2	3638547.4	126.4	3.49	6.51
3.25	NO	L0001179	0	0.47210E-06	480249.2	3638554.7	125.6	3.49	6.51

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0001180	0	0.47210E-06	480237.2	3638561.9	124.7	3.49	6.51		
3.25	NO	L0001181	0	0.47210E-06	480225.2	3638569.1	123.6	3.49	6.51
3.25	NO	L0001182	0	0.47210E-06	480213.2	3638576.4	122.5	3.49	6.51
3.25	NO	L0001183	0	0.47210E-06	480201.3	3638583.7	121.5	3.49	6.51
3.25	NO	L0001184	0	0.47210E-06	480189.3	3638590.9	120.2	3.49	6.51
3.25	NO	L0001185	0	0.47210E-06	480177.3	3638598.2	119.2	3.49	6.51
3.25	NO	L0001186	0	0.47210E-06	480165.3	3638605.4	118.2	3.49	6.51
3.25	NO	L0001187	0	0.47210E-06	480152.9	3638611.8	117.0	3.49	6.51
3.25	NO	L0001188	0	0.47210E-06	480140.5	3638618.2	115.6	3.49	6.51
3.25	NO	L0001189	0	0.47210E-06	480128.0	3638624.6	114.0	3.49	6.51

3.25	NO							
L0001190		0	0.47210E-06	480115.5	3638631.0	112.5	3.49	6.51
3.25	NO							
L0001191		0	0.47210E-06	480103.0	3638637.3	111.1	3.49	6.51
3.25	NO							
L0001192		0	0.47210E-06	480089.2	3638639.4	109.9	3.49	6.51
3.25	NO							
L0001193		0	0.47210E-06	480075.4	3638641.4	108.5	3.49	6.51
3.25	NO							
L0001194		0	0.47210E-06	480061.4	3638642.4	108.5	3.49	6.51
3.25	NO							
L0001195		0	0.47210E-06	480047.4	3638642.9	109.6	3.49	6.51
3.25	NO							
L0001196		0	0.47210E-06	480033.4	3638643.3	110.1	3.49	6.51
3.25	NO							
L0001197		0	0.47210E-06	480019.4	3638643.8	109.7	3.49	6.51
3.25	NO							
L0001198		0	0.47210E-06	480005.4	3638644.3	109.6	3.49	6.51
3.25	NO							
L0001199		0	0.47210E-06	479991.4	3638644.8	110.4	3.49	6.51
3.25	NO							
L0001200		0	0.47210E-06	479977.5	3638645.3	111.1	3.49	6.51
3.25	NO							
L0001201		0	0.47210E-06	479963.5	3638645.8	111.4	3.49	6.51
3.25	NO							
L0001202		0	0.47210E-06	479949.5	3638646.3	111.7	3.49	6.51
3.25	NO							
L0001203		0	0.47210E-06	479935.5	3638646.8	110.9	3.49	6.51
3.25	NO							
L0001204		0	0.47210E-06	479921.5	3638647.1	110.1	3.49	6.51
3.25	NO							
L0001205		0	0.47210E-06	479907.5	3638647.5	109.5	3.49	6.51
3.25	NO							
L0001206		0	0.47210E-06	479893.5	3638647.8	108.9	3.49	6.51
3.25	NO							
L0001207		0	0.47210E-06	479879.5	3638648.1	107.2	3.49	6.51
3.25	NO							
L0001208		0	0.47210E-06	479865.5	3638648.5	105.0	3.49	6.51
3.25	NO							
L0001209		0	0.47210E-06	479851.5	3638648.8	102.9	3.49	6.51
3.25	NO							
L0001210		0	0.47210E-06	479837.5	3638649.1	100.7	3.49	6.51
3.25	NO							
L0001211		0	0.47210E-06	479823.5	3638649.9	98.7	3.49	6.51
3.25	NO							
L0001212		0	0.47210E-06	479809.6	3638650.9	97.0	3.49	6.51
3.25	NO							
L0001213		0	0.47210E-06	479795.6	3638651.9	95.8	3.49	6.51
3.25	NO							
L0000509		0	0.66530E-05	479889.3	3638719.6	106.3	3.49	4.00

3.25	NO	L0000510	0	0.66530E-05	479897.8	3638720.6	105.0	3.49	4.00
3.25	NO	L0000511	0	0.66530E-05	479906.4	3638721.6	103.5	3.49	4.00
3.25	NO	L0000512	0	0.66530E-05	479914.9	3638722.6	101.9	3.49	4.00
3.25	NO	L0000513	0	0.53220E-05	479691.6	3638690.5	97.2	3.49	4.00
3.25	NO	L0000514	0	0.53220E-05	479700.0	3638688.8	95.8	3.49	4.00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE	SOURCE	EMISSION	RATE		X	Y	HEIGHT	SY
SZ	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)		CATS.	BY					

L0000515	0	0.53220E-05	479708.5	3638687.2	94.3	3.49	4.00		
3.25	NO	L0000516	0	0.53220E-05	479716.9	3638685.5	94.1	3.49	4.00
3.25	NO	L0000517	0	0.53220E-05	479725.1	3638683.1	94.0	3.49	4.00
3.25	NO	L0000518	0	0.66530E-05	480040.6	3638748.3	108.2	3.49	4.00
3.25	NO	L0000519	0	0.66530E-05	480047.9	3638748.2	108.6	3.49	4.00
3.25	NO	L0000520	0	0.66530E-05	480050.4	3638739.9	106.6	3.49	4.00
3.25	NO	L0000521	0	0.66530E-05	480052.9	3638731.7	104.2	3.49	4.00
3.25	NO	L0000522	0	0.16200E-06	479809.7	3638662.7	99.0	3.49	4.00
3.25	NO	L0000523	0	0.16200E-06	479802.6	3638667.4	99.5	3.49	4.00
3.25	NO	L0000524	0	0.16200E-06	479795.6	3638672.4	100.1	3.49	4.00

3.25	NO							
L0000525		0	0.16200E-06	479789.7	3638678.6	100.9	3.49	4.00
3.25	NO							
L0000526		0	0.16200E-06	479785.5	3638685.9	102.0	3.49	4.00
3.25	NO							
L0000527		0	0.16200E-06	479782.6	3638694.0	102.4	3.49	4.00
3.25	NO							
L0000528		0	0.16200E-06	479779.6	3638702.0	102.6	3.49	4.00
3.25	NO							
L0000529		0	0.16200E-06	479776.6	3638710.1	102.7	3.49	4.00
3.25	NO							
L0000530		0	0.16200E-06	479773.6	3638718.1	102.8	3.49	4.00
3.25	NO							
L0000531		0	0.16200E-06	479770.5	3638726.1	103.1	3.49	4.00
3.25	NO							
L0000532		0	0.16200E-06	479767.5	3638734.2	103.8	3.49	4.00
3.25	NO							
L0000533		0	0.16200E-06	479764.4	3638742.2	104.6	3.49	4.00
3.25	NO							
L0000534		0	0.16200E-06	479758.1	3638747.5	105.1	3.49	4.00
3.25	NO							
L0000535		0	0.16200E-06	479750.7	3638751.7	105.4	3.49	4.00
3.25	NO							
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3.25	NO							
L0000537		0	0.16200E-06	479735.7	3638760.2	106.0	3.49	4.00
3.25	NO							
L0000538		0	0.16200E-06	479728.2	3638764.3	106.3	3.49	4.00
3.25	NO							
L0000539		0	0.16200E-06	479720.7	3638768.4	106.6	3.49	4.00
3.25	NO							
L0000540		0	0.16200E-06	479713.1	3638772.5	106.9	3.49	4.00
3.25	NO							
L0000541		0	0.16200E-06	479705.4	3638775.9	106.9	3.49	4.00
3.25	NO							
L0000542		0	0.16200E-06	479697.0	3638774.9	106.6	3.49	4.00
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L0000543		0	0.16200E-06	479688.8	3638772.1	106.4	3.49	4.00
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L0000544		0	0.16200E-06	479681.4	3638767.9	106.3	3.49	4.00
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3.25	NO							
L0000546		0	0.16200E-06	479676.3	3638752.8	106.8	3.49	4.00
3.25	NO							
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3.25	NO							
L0000548		0	0.16200E-06	479687.2	3638742.7	106.3	3.49	4.00
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L0000549		0	0.16200E-06	479695.6	3638740.9	105.7	3.49	4.00

3.25	NO							
L0000550		0	0.16200E-06	479704.0	3638739.1	105.1	3.49	4.00
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L0000553		0	0.16200E-06	479729.2	3638733.6	103.5	3.49	4.00
3.25	NO							
L0000554		0	0.16200E-06	479737.6	3638731.8	103.1	3.49	4.00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		X	Y		
ID		CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)
(METERS)								

L0000555		0	0.16200E-06	479746.0	3638730.0	103.0	3.49	4.00
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L0000556		0	0.16200E-06	479754.4	3638728.2	102.9	3.49	4.00
3.25	NO							
L0000557		0	0.16200E-06	479762.8	3638726.4	102.9	3.49	4.00
3.25	NO							
L0000558		0	0.16680E-06	479784.5	3638655.9	96.4	3.49	4.00
3.25	NO							
L0000559		0	0.16680E-06	479776.1	3638657.7	96.5	3.49	4.00
3.25	NO							
L0000560		0	0.16680E-06	479768.0	3638660.5	96.6	3.49	4.00
3.25	NO							
L0000561		0	0.16680E-06	479760.0	3638663.7	96.3	3.49	4.00
3.25	NO							
L0000562		0	0.16680E-06	479752.3	3638667.3	95.9	3.49	4.00
3.25	NO							
L0000563		0	0.16680E-06	479744.9	3638671.7	95.3	3.49	4.00
3.25	NO							
L0000564		0	0.16680E-06	479737.5	3638676.1	94.5	3.49	4.00

3.25	NO							
L0000565		0	0.16680E-06	479729.6	3638679.5	93.8	3.49	4.00
3.25	NO							
L0000566		0	0.16680E-06	479721.7	3638682.7	93.7	3.49	4.00
3.25	NO							
L0000567		0	0.16680E-06	479713.7	3638685.9	94.0	3.49	4.00
3.25	NO							
L0000568		0	0.16680E-06	479705.4	3638688.2	94.9	3.49	4.00
3.25	NO							
L0000569		0	0.16680E-06	479697.0	3638689.8	96.4	3.49	4.00
3.25	NO							
L0000570		0	0.16680E-06	479688.5	3638691.2	97.8	3.49	4.00
3.25	NO							
L0000571		0	0.16090E-06	480065.0	3638664.0	103.2	3.49	4.00
3.25	NO							
L0000572		0	0.16090E-06	480065.0	3638672.6	100.7	3.49	4.00
3.25	NO							
L0000573		0	0.16090E-06	480065.5	3638681.1	98.1	3.49	4.00
3.25	NO							
L0000574		0	0.16090E-06	480063.8	3638689.5	97.0	3.49	4.00
3.25	NO							
L0000575		0	0.16090E-06	480061.7	3638697.9	98.2	3.49	4.00
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3.25	NO							
L0000577		0	0.16090E-06	480057.2	3638714.5	100.0	3.49	4.00
3.25	NO							
L0000578		0	0.16090E-06	480055.0	3638722.8	101.7	3.49	4.00
3.25	NO							
L0000579		0	0.16090E-06	480052.8	3638731.0	104.0	3.49	4.00
3.25	NO							
L0000580		0	0.16090E-06	480050.5	3638739.3	106.4	3.49	4.00
3.25	NO							
L0000581		0	0.16090E-06	480048.3	3638747.6	108.7	3.49	4.00
3.25	NO							
L0000582		0	0.16090E-06	480042.0	3638749.3	108.3	3.49	4.00
3.25	NO							
L0000583		0	0.88700E-05	479713.4	3638828.3	105.6	3.49	4.00
3.25	NO							
L0000584		0	0.88700E-05	479719.0	3638833.1	105.2	3.49	4.00
3.25	NO							
L0000585		0	0.88700E-05	479726.7	3638829.3	105.6	3.49	4.00
3.25	NO							
L0000586		0	0.88700E-05	479948.8	3638700.1	100.5	3.49	4.00
3.25	NO							
L0000587		0	0.88700E-05	479955.9	3638695.2	101.0	3.49	4.00
3.25	NO							
L0000588		0	0.88700E-05	479963.0	3638690.3	101.5	3.49	4.00
3.25	NO							
L0000592		0	0.16250E-06	479992.7	3638664.2	105.5	3.49	4.00

3.25	NO	L0000593	0	0.16250E-06	479988.5	3638671.7	103.3	3.49	4.00
3.25	NO	L0000594	0	0.16250E-06	479984.3	3638679.2	101.3	3.49	4.00
3.25	NO	L0000595	0	0.16250E-06	479979.6	3638686.2	99.9	3.49	4.00
3.25	NO	L0000596	0	0.16250E-06	479972.7	3638691.3	99.1	3.49	4.00
3.25	NO	L0000597	0	0.16250E-06	479965.7	3638696.3	98.5	3.49	4.00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

L0000598	0	0.16250E-06	479958.8	3638701.4	97.8	3.49	4.00		
3.25	NO	L0000599	0	0.16250E-06	479951.8	3638706.4	97.3	3.49	4.00
3.25	NO	L0000600	0	0.16250E-06	479944.9	3638711.5	97.2	3.49	4.00
3.25	NO	L0000601	0	0.16250E-06	479937.9	3638716.5	97.6	3.49	4.00
3.25	NO	L0000602	0	0.16250E-06	479931.0	3638721.6	97.8	3.49	4.00
3.25	NO	L0000603	0	0.16250E-06	479924.0	3638726.6	97.9	3.49	4.00
3.25	NO	L0000604	0	0.16250E-06	479917.1	3638731.7	97.8	3.49	4.00
3.25	NO	L0000605	0	0.16250E-06	479910.1	3638736.7	97.5	3.49	4.00
3.25	NO	L0000606	0	0.16250E-06	479903.2	3638741.9	97.6	3.49	4.00
3.25	NO	L0000607	0	0.16250E-06	479896.4	3638747.1	98.3	3.49	4.00

3.25	NO							
L0000608		0	0.16250E-06	479889.6	3638752.3	98.8	3.49	4.00
3.25	NO							
L0000609		0	0.16250E-06	479882.2	3638756.6	98.6	3.49	4.00
3.25	NO							
L0000610		0	0.16250E-06	479874.7	3638760.9	98.7	3.49	4.00
3.25	NO							
L0000611		0	0.16250E-06	479867.2	3638765.0	99.2	3.49	4.00
3.25	NO							
L0000612		0	0.16250E-06	479859.0	3638767.5	100.5	3.49	4.00
3.25	NO							
L0000613		0	0.16250E-06	479850.7	3638770.0	101.5	3.49	4.00
3.25	NO							
L0000614		0	0.16250E-06	479842.5	3638772.5	102.7	3.49	4.00
3.25	NO							
L0000615		0	0.16250E-06	479834.3	3638775.0	104.0	3.49	4.00
3.25	NO							
L0000616		0	0.16250E-06	479826.1	3638777.5	105.2	3.49	4.00
3.25	NO							
L0000617		0	0.16250E-06	479817.9	3638780.0	105.9	3.49	4.00
3.25	NO							
L0000618		0	0.16250E-06	479809.7	3638782.7	106.5	3.49	4.00
3.25	NO							
L0000619		0	0.16250E-06	479801.6	3638785.5	107.1	3.49	4.00
3.25	NO							
L0000620		0	0.16250E-06	479794.2	3638789.7	107.0	3.49	4.00
3.25	NO							
L0000621		0	0.16250E-06	479787.2	3638794.7	106.6	3.49	4.00
3.25	NO							
L0000622		0	0.16250E-06	479779.7	3638798.9	106.3	3.49	4.00
3.25	NO							
L0000623		0	0.16250E-06	479772.2	3638803.1	106.1	3.49	4.00
3.25	NO							
L0000624		0	0.16250E-06	479764.7	3638807.2	106.2	3.49	4.00
3.25	NO							
L0000625		0	0.16250E-06	479757.2	3638811.4	106.4	3.49	4.00
3.25	NO							
L0000626		0	0.16250E-06	479749.7	3638815.6	106.5	3.49	4.00
3.25	NO							
L0000627		0	0.16250E-06	479742.2	3638819.8	106.5	3.49	4.00
3.25	NO							
L0000628		0	0.16250E-06	479734.7	3638824.0	106.2	3.49	4.00
3.25	NO							
L0000629		0	0.16250E-06	479727.2	3638828.2	105.7	3.49	4.00
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L0000630		0	0.16250E-06	479719.7	3638832.4	105.3	3.49	4.00
3.25	NO							
L0000631		0	0.16250E-06	479713.7	3638828.4	105.6	3.49	4.00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS

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	,	L0001042	,	L0001043	,					
L0001049	L0001044	,	L0001045	,	L0001046	,	L0001047	,	L0001048	,
	,	L0001050	,	L0001051	,					
L0001057	L0001052	,	L0001053	,	L0001054	,	L0001055	,	L0001056	,
	,	L0001058	,	L0001059	,					
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	,	L0001066	,	L0001067	,					
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	,	L0001074	,	L0001075	,					
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	,	L0001082	,	L0001083	,					
L0001089	L0001084	,	L0001085	,	L0001086	,	L0001087	,	L0001088	,
	,	L0001090	,	L0001091	,					
L0001097	L0001092	,	L0001093	,	L0001094	,	L0001095	,	L0001096	,
	,	L0001098	,	L0001099	,					
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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID

SOURCE IDs

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STCK4 , STCK5 , STCK6 ,

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 *** AERMET - VERSION 14134 *** ***
 *** 17:14:00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = STCK1 ; SOURCE TYPE = POINT :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
	9 .0000E+00		10 .0000E+00		11 .0000E+00		12 .0000E+00		13 .0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
	17 .0000E+00		18 .0000E+00		19 .0000E+00		20 .0000E+00		21 .0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
	9 .0000E+00		10 .1000E+01		11 .0000E+00		12 .0000E+00		13 .0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
	17 .0000E+00		18 .0000E+00		19 .0000E+00		20 .0000E+00		21 .0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
	9 .0000E+00		10 .0000E+00		11 .0000E+00		12 .0000E+00		13 .0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
	17 .0000E+00		18 .0000E+00		19 .0000E+00		20 .0000E+00		21 .0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
	9 .0000E+00		10 .1000E+01		11 .0000E+00		12 .0000E+00		13 .0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
	17 .0000E+00		18 .0000E+00		19 .0000E+00		20 .0000E+00		21 .0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
	9 .0000E+00		10 .0000E+00		11 .0000E+00		12 .0000E+00		13 .0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
	17 .0000E+00		18 .0000E+00		19 .0000E+00		20 .0000E+00		21 .0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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Towne Centre View\13564 C *** 02/21/23
*** AERMET - VERSION 14134 *** ***
*** 17:14:00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

SOURCE ID = STCK2 ; SOURCE TYPE = POINT :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
 DAY OF WEEK = THURSDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

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 Towne Centre View\13564 C *** 02/21/23
 *** AERMET - VERSION 14134 *** ***
 *** 17:14:00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW7) *

SOURCE ID = STCK3 ; SOURCE TYPE = POINT :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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Towne Centre View\13564 C *** 02/21/23
*** AERMET - VERSION 14134 *** ***
*** 17:14:00

*** MODELOPTs: RegDFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = STCK4 ; SOURCE TYPE = POINT :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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Towne Centre View\13564 C *** 02/21/23
*** AERMET - VERSION 14134 *** ***
*** 17:14:00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

SOURCE ID = STCK5 ; SOURCE TYPE = POINT :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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Towne Centre View\13564 C *** 02/21/23
*** AERMET - VERSION 14134 *** ***
*** 17:14:00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

SOURCE ID = STCK6 ; SOURCE TYPE = POINT :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .1000E+01 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
Towne Centre View\13564 C *** 02/21/23

*** AERMET - VERSION 14134 ***

17:14:00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(480078.2, 3638812.9,	111.7,	111.7,	0.0);	(480073.8,
3638841.2, 111.4, 114.0,		0.0);		
(479216.9, 3638819.4,	60.4,	108.0,	0.0);	(479276.1,
3638663.2, 101.9, 108.0,		0.0);		
(479202.8, 3639155.9,	94.8,	96.0,	0.0);	(479187.6,
3638914.4, 71.0, 108.0,		0.0);		
(479657.0, 3639277.0,	23.6,	130.0,	0.0);	(480198.4,
3639152.5, 20.9, 131.0,		0.0);		
(480235.3, 3639118.8,	21.2,	131.0,	0.0);	(480221.5,
3638273.9, 116.8, 129.0,		0.0);		
(480235.4, 3638271.1,	119.1,	127.0,	0.0);	(480154.0,
3638262.7, 111.2, 127.0,		0.0);		
(480103.7, 3638230.2,	107.4,	125.0,	0.0);	(480070.2,
3638222.9, 99.2, 130.0,		0.0);		
(480046.2, 3638213.8,	95.6,	130.0,	0.0);	(480028.4,
3638199.7, 96.4, 129.0,		0.0);		
(480008.0, 3638194.4,	98.3,	113.0,	0.0);	(479975.0,
3638186.4, 103.9, 112.0,		0.0);		
(479923.8, 3638169.2,	106.1,	106.1,	0.0);	(479767.4,
3638137.7, 102.1, 107.0,		0.0);		
(479598.8, 3638181.6,	101.1,	105.0,	0.0);	(479753.9,
3638151.5, 100.9, 107.0,		0.0);		
(479551.1, 3638299.1,	96.8,	107.0,	0.0);	(479481.5,
3638261.1, 102.3, 106.0,		0.0);		
(479558.1, 3638250.7,	98.8,	107.0,	0.0);	(479406.9,
3638370.3, 106.9, 106.9,		0.0);		
(479730.3, 3638487.9,	109.1,	109.1,	0.0);	(479871.9,
3638588.7, 107.6, 107.6,		0.0);		
(480019.8, 3638588.3,	112.5,	112.5,	0.0);	(480088.8,
3638566.3, 113.6, 113.6,		0.0);		
(480110.3, 3638570.2,	114.8,	114.8,	0.0);	(480300.2,
3638596.9, 127.7, 127.7,		0.0);		
(480340.2, 3638668.7,	120.0,	128.0,	0.0);	(480223.6,
3638526.3, 123.0, 123.0,		0.0);		
(480279.7, 3638501.9,	127.9,	127.9,	0.0);	(479685.9,
3638027.1, 105.9, 105.9,		0.0);		
(479682.8, 3637865.0,	107.1,	107.1,	0.0);	(479867.3,
3637849.4, 110.3, 110.3,		0.0);		
(479914.6, 3637846.7,	111.8,	111.8,	0.0);	(479788.9,
3637821.0, 108.7, 108.7,		0.0);		
(479839.9, 3637820.0,	109.4,	109.4,	0.0);	(478551.7,
3637898.3, 97.4, 99.0,		0.0);		
(478296.2, 3638427.8,	104.3,	104.3,	0.0);	(478290.6,
3638534.9, 100.5, 106.0,		0.0);		
(478284.2, 3638394.6,	104.4,	104.4,	0.0);	(478261.5,
3638214.6, 100.5, 104.0,		0.0);		
(478263.8, 3638293.0,	100.9,	104.0,	0.0);	(480673.7,
3639948.7, 93.2, 123.0,		0.0);		
(480734.9, 3639920.9,	76.5,	123.0,	0.0);	(480827.1,

3639877.7, 48.0, 123.0, 0.0);
 (480935.4, 3639711.3, 88.5, 100.0, 0.0); (480342.0,
 3638410.3, 128.9, 128.9, 0.0);
 (480448.9, 3638347.8, 128.3, 128.3, 0.0); (480414.3,
 3638459.8, 128.5, 128.5, 0.0);
 (480474.5, 3638053.1, 128.5, 128.5, 0.0); (480412.4,
 3638092.4, 129.0, 129.0, 0.0);
 (480378.6, 3638195.0, 129.0, 129.0, 0.0); (480327.5,
 3638353.7, 127.2, 127.2, 0.0);
 (480546.0, 3638306.9, 125.8, 125.8, 0.0); (480611.2,
 3638136.8, 123.9, 123.9, 0.0);
 (480301.2, 3638116.3, 125.2, 125.2, 0.0); (480254.3,
 3638228.2, 122.5, 122.5, 0.0);
 (480318.2, 3638059.6, 124.9, 127.0, 0.0); (480336.1,
 3637991.1, 127.7, 127.7, 0.0);
 (480354.5, 3637931.8, 128.0, 128.0, 0.0); (480598.1,
 3638026.6, 124.4, 124.4, 0.0);
 (480535.7, 3637889.8, 126.1, 126.1, 0.0); (480609.5,
 3637912.2, 123.8, 123.8, 0.0);
 (480614.3, 3637837.5, 122.0, 122.0, 0.0); (480556.4,
 3637816.5, 123.8, 123.8, 0.0);
 (480550.2, 3637726.5, 121.9, 121.9, 0.0); (480564.0,
 3637598.6, 118.8, 118.8, 0.0);
 (480564.0, 3637575.1, 117.9, 117.9, 0.0); (480546.4,
 3637630.4, 121.1, 127.0, 0.0);
 (480564.8, 3637501.4, 115.2, 121.0, 0.0); (480619.6,
 3637520.0, 109.9, 121.0, 0.0);
 (480619.6, 3637395.6, 116.3, 116.3, 0.0); (480545.5,
 3637397.5, 118.9, 118.9, 0.0);
 (480661.4, 3637321.5, 102.0, 122.5, 0.0); (480573.9,
 3637313.6, 116.7, 116.7, 0.0);
 (480812.7, 3637334.6, 91.0, 121.0, 0.0); (480896.2,
 3637363.0, 100.5, 118.4, 0.0);
 (480932.2, 3637353.9, 102.2, 118.4, 0.0); (481021.7,
 3637370.1, 106.0, 118.4, 0.0);
 (481073.3, 3637378.3, 105.6, 119.0, 0.0); (480847.1,
 3637417.2, 87.2, 121.0, 0.0);
 (480954.4, 3637436.5, 117.1, 117.1, 0.0); (481521.1,
 3637593.9, 115.5, 115.5, 0.0);
 (481012.6, 3637485.1, 115.0, 115.0, 0.0); (479196.9,
 3639381.6, 98.7, 105.0, 0.0);

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 *** AERMET - VERSION 14134 ***
 *** 17:14:00

*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** DISCRETE CARTESIAN RECEPTORS ***

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(479688.5, 3639399.5, 17.2, 130.0, 0.0); (480118.0,
3639255.5, 20.6, 131.0, 0.0);
(479777.4, 3639660.9, 24.0, 124.0, 0.0); (480182.6,
3639596.9, 48.8, 123.0, 0.0);
(480251.2, 3638276.1, 120.6, 127.0, 0.0);

▲ *** AERMOD - VERSION 22112 *** *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
Towne Centre View\13564 C *** 02/21/23
*** AERMET - VERSION 14134 *** ***
*** 17:14:00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** METEOROLOGICAL DAYS SELECTED FOR

PROCESSING ***

(1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,

10.80,

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 *** 17:14:00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

DATA ***

Surface file: 722931.SFC
 Met Version: 14134
 Profile file: 722931.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 93107
 Name: UNKNOWN
 Year: 2009

Upper air station no.: 3190
 Name: UNKNOWN
 Year: 2009

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
09	01	01	1	01	-5.8	0.103	-9.000	-9.000	-999.	80.	17.1	0.21	1.32	
1.00	1.76	341.		10.0	281.4	2.0								
09	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32	
1.00	0.00	0.		10.0	281.4	2.0								
09	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32	
1.00	0.00	0.		10.0	278.1	2.0								
09	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32	
1.00	0.00	0.		10.0	278.1	2.0								
09	01	01	1	05	-13.7	0.126	-9.000	-9.000	-999.	107.	12.9	0.23	1.32	
1.00	2.36	43.		10.0	278.8	2.0								
09	01	01	1	06	-7.6	0.094	-9.000	-9.000	-999.	69.	9.6	0.23	1.32	
1.00	1.76	32.		10.0	278.8	2.0								
09	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32	
1.00	0.00	0.		10.0	277.0	2.0								
09	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.25	1.32	
0.50	0.00	0.		10.0	281.4	2.0								
09	01	01	1	09	43.9	0.223	0.454	0.011	76.	252.	-22.4	0.21	1.32	
0.30	1.76	307.		10.0	284.2	2.0								
09	01	01	1	10	97.0	0.297	0.758	0.008	160.	387.	-24.0	0.21	1.32	
0.23	2.36	331.		10.0	285.4	2.0								
09	01	01	1	11	137.1	0.306	0.980	0.008	245.	405.	-18.6	0.21	1.32	
0.21	2.36	324.		10.0	289.2	2.0								
09	01	01	1	12	149.7	0.251	1.157	0.009	369.	303.	-9.4	0.21	1.32	

```

0.20    1.76  346.   10.0  291.4   2.0
  09 01 01   1 13 147.0  0.402  1.247  0.007  470.  611.   -39.2  0.21  1.32
0.20    3.36  323.   10.0  291.4   2.0
  09 01 01   1 14 123.1  0.388  1.276  0.007  601.  579.   -42.1  0.19  1.32
0.21    3.36  289.   10.0  289.9   2.0
  09 01 01   1 15  80.6  0.385  1.155  0.007  681.  574.   -63.2  0.21  1.32
0.24    3.36  312.   10.0  289.9   2.0
  09 01 01   1 16  21.3  0.314  0.746  0.007  694.  426.  -129.9  0.21  1.32
0.33    2.86  304.   10.0  287.5   2.0
  09 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32
0.61  999.00  999.   -9.0  283.8   2.0
  09 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32
1.00    0.00    0.   10.0  283.1   2.0
  09 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32
1.00    0.00    0.   10.0  283.1   2.0
  09 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32
1.00    0.00    0.   10.0  282.5   2.0
  09 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32
1.00    0.00    0.   10.0  282.5   2.0
  09 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32
1.00    0.00    0.   10.0  282.5   2.0
  09 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32
1.00    0.00    0.   10.0  282.0   2.0
  09 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.25  1.32
1.00    0.00    0.   10.0  282.0   2.0

```

First hour of profile data

```

YR MO DY HR HEIGHT F  WDIR      WSPD AMB_TMP sigmaA  sigmaW  sigmaV
09 01 01 01  10.0 1  341.    1.76  281.5   99.0  -99.00 -99.00

```

F indicates top of profile (=1) or below (=0)

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^ *** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
Towne Centre View\13564 C ***          02/21/23
*** AERMET - VERSION 14134 ***      ***
***                                     ***
***                                     17:14:00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

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*** THE ANNUAL AVERAGE CONCENTRATION   VALUES AVERAGED OVER   5
YEARS FOR SOURCE GROUP: ALL           ***
                                     INCLUDING SOURCE(S):  L0001020   , L0001021
, L0001022   , L0001023   , L0001024   ,
                                     L0001025   , L0001026   , L0001027   , L0001028   , L0001029
, L0001030   , L0001031   , L0001032   ,
                                     L0001033   , L0001034   , L0001035   , L0001036   , L0001037
, L0001038   , L0001039   , L0001040   ,
                                     L0001041   , L0001042   , L0001043   , L0001044   , L0001045
, L0001046   , L0001047   , . . .

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*** DISCRETE CARTESIAN RECEPTOR POINTS

		** CONC OF DPM	IN MICROGRAMS/M**3
		**	
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
480078.16	3638812.94	0.00673	480073.82
3638841.16	0.00580		
479216.93	3638819.45	0.00106	479276.08
3638663.16	0.00176		
479202.82	3639155.91	0.00062	479187.62
3638914.42	0.00089		
479657.00	3639277.02	0.00119	480198.42
3639152.52	0.00132		
480235.35	3639118.75	0.00136	480221.47
3638273.94	0.00219		
480235.39	3638271.15	0.00211	480153.99
3638262.74	0.00235		
480103.69	3638230.24	0.00227	480070.22
3638222.91	0.00226		
480046.20	3638213.76	0.00216	480028.43
3638199.71	0.00208		
480007.96	3638194.38	0.00205	479975.00
3638186.40	0.00198		
479923.82	3638169.21	0.00178	479767.43
3638137.73	0.00132		
479598.77	3638181.58	0.00105	479753.87
3638151.48	0.00134		
479551.08	3638299.11	0.00136	479481.48
3638261.06	0.00108		
479558.07	3638250.70	0.00119	479406.89
3638370.35	0.00133		
479730.31	3638487.87	0.00502	479871.89
3638588.66	0.00865		
480019.75	3638588.27	0.00771	480088.77
3638566.31	0.00600		
480110.34	3638570.23	0.00583	480300.16
3638596.90	0.00287		
480340.16	3638668.67	0.00237	480223.60
3638526.30	0.00406		
480279.71	3638501.93	0.00396	479685.90
3638027.12	0.00083		
479682.85	3637865.05	0.00061	479867.26
3637849.38	0.00079		
479914.61	3637846.71	0.00084	479788.89

3637821.04	0.00068			
479839.91	3637820.04	0.00073		478551.73
3637898.26	0.00030			
478296.16	3638427.84	0.00030		478290.62
3638534.93	0.00030			
478284.16	3638394.60	0.00030		478261.54
3638214.58	0.00028			
478263.85	3638293.05	0.00029		480673.68
3639948.73	0.00030			
480734.89	3639920.87	0.00029		480827.11
3639877.70	0.00027			
480935.41	3639711.32	0.00033		480342.04
3638410.28	0.00302			
480448.92	3638347.81	0.00307		480414.34
3638459.79	0.00258			
480474.46	3638053.12	0.00223		480412.38
3638092.41	0.00177			
480378.58	3638194.96	0.00196		480327.50
3638353.70	0.00242			
480545.97	3638306.94	0.00169		480611.19
3638136.81	0.00147			
480301.18	3638116.34	0.00159		480254.33
3638228.19	0.00190			
480318.21	3638059.56	0.00147		480336.10
3637991.14	0.00133			
480354.55	3637931.80	0.00124		480598.13
3638026.62	0.00177			
480535.68	3637889.78	0.00225		480609.49
3637912.21	0.00209			
480614.32	3637837.55	0.00234		480556.40
3637816.54	0.00235			
480550.16	3637726.54	0.00198		480564.03
3637598.62	0.00233			
480564.02	3637575.10	0.00233		480546.37
3637630.41	0.00182			
480564.83	3637501.39	0.00232		480619.59
3637520.05	0.00216			
480619.59	3637395.65	0.00260		480545.54
3637397.50	0.00169			
480661.36	3637321.54	0.00233		480573.91
3637313.59	0.00146			

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^ *** AERMOD - VERSION 22112 ***      *** C:\Users\Michael Tirohn\Desktop\HRAs\13564
Towne Centre View\13564 C ***          02/21/23
*** AERMET - VERSION 14134 ***      ***
***                                     ***      17:14:00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5

YEARS FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): L0001020 , L0001021
 , L0001022 , L0001023 , L0001024 ,
 L0001025 , L0001026 , L0001027 , L0001028 , L0001029
 , L0001030 , L0001031 , L0001032 ,
 L0001033 , L0001034 , L0001035 , L0001036 , L0001037
 , L0001038 , L0001039 , L0001040 ,
 L0001041 , L0001042 , L0001043 , L0001044 , L0001045
 , L0001046 , L0001047 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF DPM IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
480812.70	3637334.60	0.00195	480896.18
3637362.99	0.00243		
480932.23	3637353.90	0.00196	481021.67
3637370.09	0.00193		
481073.35	3637378.32	0.00188	480847.06
3637417.22	0.00183		
480954.38	3637436.53	0.00163	481521.14
3637593.95	0.00058		
481012.60	3637485.09	0.00115	479196.94
3639381.63	0.00041		
479688.53	3639399.55	0.00086	480118.03
3639255.53	0.00111		
479777.36	3639660.87	0.00052	480182.57
3639596.86	0.00055		
480251.19	3638276.09	0.00209	

▲ *** AERMOD - VERSION 22112 ***
 Towne Centre View\13564 C ***
 *** AERMET - VERSION 14134 ***

*** C:\Users\Michael Tirohn\Desktop\HRAs\13564
 02/21/23

 17:14:00

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*** MODELOPTs: RegDFault CONC ELEV RURAL

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3

**

GROUP ID ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	AVERAGE CONC GRID-ID	RECEPTOR (XR, YR,
ALL	1ST HIGHEST VALUE IS	0.00865 AT (	479871.89, 3638588.66,
107.57,	107.57, 0.00) DC		
	2ND HIGHEST VALUE IS	0.00771 AT (	480019.75, 3638588.27,
112.47,	112.47, 0.00) DC		
	3RD HIGHEST VALUE IS	0.00673 AT (	480078.16, 3638812.94,
111.67,	111.67, 0.00) DC		
	4TH HIGHEST VALUE IS	0.00600 AT (	480088.77, 3638566.31,
113.65,	113.65, 0.00) DC		
	5TH HIGHEST VALUE IS	0.00583 AT (	480110.34, 3638570.23,
114.75,	114.75, 0.00) DC		
	6TH HIGHEST VALUE IS	0.00580 AT (	480073.82, 3638841.16,
111.39,	114.00, 0.00) DC		
	7TH HIGHEST VALUE IS	0.00502 AT (	479730.31, 3638487.87,
109.09,	109.09, 0.00) DC		
	8TH HIGHEST VALUE IS	0.00406 AT (	480223.60, 3638526.30,
123.02,	123.02, 0.00) DC		
	9TH HIGHEST VALUE IS	0.00396 AT (	480279.71, 3638501.93,
127.88,	127.88, 0.00) DC		
	10TH HIGHEST VALUE IS	0.00307 AT (	480448.92, 3638347.81,
128.34,	128.34, 0.00) DC		

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

▲ *** AERMOD - VERSION 22112 *** ** C:\Users\Michael Tirohn\Desktop\HRAs\13564
 Towne Centre View\13564 C *** 02/21/23
 *** AERMET - VERSION 14134 *** ***
 *** 17:14:00

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*** MODELOPTs: RegDEFAULT CONC ELEV RURAL

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
 A Total of 1 Warning Message(s)
 A Total of 11336 Informational Message(s)

A Total of 43872 Hours Were Processed
A Total of 9082 Calm Hours Identified
A Total of 2254 Missing Hours Identified (5.14 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
MX W481 43873 MAIN: Data Remaining After End of Year. Number of Hours=
48

*** AERMOD Finishes Successfully ***

APPENDIX 2.4:
RISK CALCULATIONS

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Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario - Construction Activity

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
		0.00543	5.43E-06		1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.2E-06	1.3E-06	5.0E+00	1.4E-03	1.1E-03						
TOTAL					1.3E-06				1.1E-03 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00										

1.26

** Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g. teratogenic and developmental effects)
EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	260
exposure duration (years)	2.00
inhalation rate (L/kg-day)	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	1.00
age sensitivity factor (0 to 2 years old)	10

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)
		0.00543	5.43E-06		1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.2E-06	3.7E-07	5.0E+00	1.4E-03	1.1E-03					
TOTAL					0.37						1.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g. teratogenic and developmental effects)
EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	260
exposure duration (years)	3.74
inhalation rate (L/kg-day)	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	1.00
age sensitivity factor (ages 2 to 16 years)	3

Total Risk for All Age Bins (per million) 1.64

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)
		0.00235	2.35E-06		1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-06	4.3E-07	5.0E+00	1.4E-03	4.7E-04					
TOTAL					4.3E-07				4.7E-04 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00									

0.43

** Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g. teratogenic and developmental effects)
EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	10.26
inhalation rate (L/kg-day)	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years)	3

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
		0.00235			2.35E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	5.9E-07	9.0E-08	5.0E+00	1.4E-03	4.7E-04					
TOTAL								9.0E-08			4.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.09

** Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g. teratogenic and developmental effects)
EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day)	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) 1.78

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
		0.00235	2.35E-06		1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	8.1E-07	2.6E-08	5.0E+00	1.4E-03	4.7E-04						
TOTAL					2.6E-08				4.7E-04 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00										

** Key to Toxicological Endpoints

RESP Respiratory System
 CNS/PNS Central/Peripheral Nervous System
 CV/BL Cardiovascular/Blood System
 IMMUN Immune System
 KIDN Kidney
 GI/LV Gastrointestinal System/Liver
 REPRO Reproductive System (e.g. teratogenic and developmental effects)
 EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day)	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester)	10

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)
		0.00235	2.35E-06		1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.5E-06	6.3E-07	5.0E+00	1.4E-03	4.7E-04					
TOTAL					6.3E-07				4.7E-04 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00									

** Key to Toxicological Endpoints

RESP Respiratory System
 CNS/PNS Central/Peripheral Nervous System
 CV/BL Cardiovascular/Blood System
 IMMUN Immune System
 KIDN Kidney
 GI/LV Gastrointestinal System/Liver
 REPRO Reproductive System (e.g. teratogenic and developmental effects)
 EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day)	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)
	0.00235	2.35E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-06	5.8E-07	5.0E+00	1.4E-03	4.7E-04							
TOTAL					5.8E-07				4.7E-04 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00									

** Key to Toxicological Endpoints

RESP Respiratory System
 CNS/PNS Central/Peripheral Nervous System
 CV/BL Cardiovascular/Blood System
 IMMUN Immune System
 KIDN Kidney
 GI/LV Gastrointestinal System/Liver
 REPRO Reproductive System (e.g. teratogenic and developmental effects)
 EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year) 350
 exposure duration (years) 14
 inhalation rate (L/kg-day) 572
 inhalation absorption factor 1
 averaging time (years) 70
 fraction of time at home 0.72
 age sensitivity factor (ages 2 to 16 years) 3

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
		0.00235			2.35E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	5.9E-07	9.0E-08	5.0E+00	1.4E-03	4.7E-04					
TOTAL								9.0E-08			4.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

0.09

** Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g. teratogenic and developmental effects)
EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day)	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) 1.33

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
		(ug/m ³)	(mg/m ³)			URF	CPF	DOSE	RISK	REL	R/D	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES	
		(b)	(c)			(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	
1	Diesel Particulates	8.65E-03	8.65E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.4E-06	5.1E-07	5.0E+00	1.4E-03	1.7E-03								
TOTAL									5.1E-07			1.7E-03	0.0E+00							
									0.51											

** Key to Toxicological Endpoints

Note: Exposure factors used to calculate contaminant intake

RESP	Respiratory System	exposure frequency (days/year)	250
CNS/PNS	Central/Peripheral Nervous System	exposure duration (years)	25
CV/BL	Cardiovascular/Blood System	inhalation rate (L/kg-day)	230
IMMUN	Immune System	inhalation absorption factor	1
KIDN	Kidney	averaging time (years)	70
GI/LV	Gastrointestinal System/Liver		
REPRO	Reproductive System (e.g. teratogenic and developmental effects)		
EYES	Eye irritation and/or other effects		

February 11, 2022

Ms. Martha Blake
City of San Diego
1222 1st Avenue, MS 501
San Diego, California 92101

Re: Airport Land Use Commission Consistency Determination – Plan
Amendment to Allow Increased Intensity at 9875 Towne Centre Drive, City
of San Diego

Dear Ms. Blake:

As the Airport Land Use Commission (ALUC) for San Diego county, the San Diego County Regional Airport Authority (SDCRAA) acknowledges receipt of an application for a determination of consistency for the project described above. The area covered by this project lies within the Airport Influence Area (AIA) for the Marine Corps Air Station (MCAS) Miramar Airport Land Use Compatibility Plan (ALUCP).

ALUC staff has reviewed your application and accompanying materials and has determined that it meets our requirements for completeness. In accordance with SDCRAA Policy 8.30 and applicable provisions of the State Aeronautics Act (Cal. Pub. Util. Code §21670-21679.5), ALUC staff has determined that the proposed project is **consistent** with the MCAS Miramar ALUCP based upon the facts and findings summarized below:

- (1) The project involves a plan amendment to the University Community Plan to increase the allowed intensity of scientific research uses (identified as research and development uses in the ALUCP) to 1,000,000 square feet within Area 11 of the plan. Because the City of San Diego has incorporated the MCAS Miramar ALUCP into its zoning, the actual development standards as applicable to the project to be permitted under the plan amendment will be reviewed by City of San Diego staff.
- (2) Because the proposed project concerns a plan amendment, it does not impact any noise exposure contours. However, the proposed project lies outside the 60 decibel Community Noise Equivalent Level (dB CNEL) noise

exposure contour, and development under the plan amendment must comply with the ALUCP noise compatibility policies.

- (3) Because the proposed project concerns a plan amendment, it does not impact any airspace protection boundaries. However, any development under the plan amendment must comply with the ALUCP airspace protection policies which require either a determination of no hazard to air navigation from the Federal Aviation Administration (FAA) or certification by the project sponsor that notification to the FAA is not required.
- (4) Because the proposed project concerns a plan amendment, it does not impact any safety zones. However, the proposed project is located within Accident Potential Zone (APZ) II and the Transition Zone (TZ). Any development under the plan amendment must comply with the maximum intensity of people per acre as represented by the maximum floor area ratio (FAR) standards of the ALUCP.
- (5) Because the proposed project concerns a plan amendment, it does not impact any overflight notification requirements which apply only to residential uses.
- (6) Therefore, the proposed project of the plan amendment is consistent with the MCAS Miramar ALUCP with development standards of proposed development under the plan amendment to be applied by City of San Diego staff.
- (7) This determination of consistency is not a “project” as defined by the California Environmental Quality Act (CEQA), Cal. Pub. Res. Code §21065.

This determination will be reported to the ALUC at its public meeting on March 3, 2022. Any determination rendered by the ALUC is limited to the project plans and descriptions submitted with the application and is not transferable to any revision of this or any similar, future project involving a change in land use, in building or crane height, or in building area in excess of 10 percent (provided area increase does exceed ALUCP standards) of any prior ALUC determination. Any change or exceedance in these characteristics requires a new consistency determination prior to decision-making consideration by the local agency.

Please contact Sid Noyce at (619) 400-2419 or snoyce@san.org if you have any questions regarding this letter.

Yours truly,



Ralph Redman
Manager, Airport Planning

cc: Amy Gonzalez, SDCRAA General Counsel
Brendan Reed, SDCRAA Director, Planning and Environmental Affairs
Kristin Camper, MCAS Miramar Community Plans & Liaison Office
Nathen Causman, City of San Diego

Towne Centre View Site TZ | APZ II Allocation and FAR

MAXIMUM AREA @ APZ II: DENSITY CALC

Limits / Existing Areas				Proposed Development	
APZII Max People/Acre	R&D Use SF/Person	Site Area within APZ II Zone	Max Bldg Area within APZ II Zone	Proposed Area @ APZ II (Bldg B+E)	
A	B	C	A*B*C		
50	300	20.18 ac	302,715 sf	285,990 sf	

MAXIMUM AREA @ APZ II: FAR CALC

Limits / Existing Areas				Proposed Development	
APZ II Max FAR	Site Area within APZ II Zone	Site Area within APZ II Zone	Max Bldg Area within APZ II Zone	Proposed Area @ APZ II (Bldg B+E)	FAR @ APZ II (Bldg B+E)
A		B	A*B	C	C/B
0.34	20.18 ac	879,084 sf	298,889 sf	285,990 sf	0.33

MAXIMUM AREA @ TZ: DENSITY CALC

Limits / Existing Areas				Proposed Development	
TZ Max People/Acre	R&D Use SF/Person	Site Area within TZ	Max Bldg Area within TZ	Proposed Area @ TZ (Bldg A+C+D)	
A	B	C	A*B*C		
300	300	13.37 ac	1,203,210 sf	713,396 sf	

MAXIMUM AREA @ TZ: FAR CALC

Limits / Existing Areas				Proposed Development	
TZ Max FAR	Site Area within TZ	Site Area within TZ	Max Bldg Area within TZ	Proposed Area @ TZ (Bldg A+C+D)	FAR Area @ TZ (Bldg A+C+D)
A		B	A*B	C	C/B
2.00	13.37 ac	582,354 sf	1,164,707 sf	713,396 sf	1.23

MAX AREA @ IP-1-1 Site

Limits / Existing Areas				Proposed Development	
Max FAR Per 131-06C	Total IP-1-1 Site Area (Acres)	Total Site Area (SF)	Max Bldg Area within IP-1-1 Site	Total Gross Floor Area (Bldgs A-E)	Total FAR (Bldgs A-E)
A		B	A*B	C	C/B
2.00	26.54 ac	1,156,039 sf	2,312,078 sf	999,386 sf	0.86

PhaseNum	PhaseName	PhaseType	PhaseStartDate	PhaseEndDate	NumDaysWeek	NumDays
1	Demo Existing	Demolition	2022/04/04	2022/05/13	5	30
2	Phase 4 Demo	Demolition	2022/05/14	2022/06/24	5	30
3	Phase 1 Site Preparation	Site Preparation	2022/06/25	2022/07/22	5	20
4	Phase 3 Site Preparation	Site Preparation	2022/07/23	2022/08/19	5	20
5	Phase 1 Grading	Grading	2022/08/20	2022/10/21	5	45
6	Phase 2 Grading	Grading	2022/10/22	2022/12/23	5	45
7	Phase 3 Grading	Grading	2022/12/24	2023/02/24	5	45
8	Phase 4 Grading	Grading	2023/02/25	2023/04/28	5	45
9	Building E Grading	Grading	2023/04/29	2023/06/30	5	45
10	Phase 1 Building Construction	Building Construction	2023/07/01	2025/03/07	5	440
11	Phase 2 Building Construction	Building Construction	2025/03/08	2026/11/13	5	440
12	Phase 3 Building Construction	Building Construction	2026/11/14	2028/07/21	5	440
13	Phase 4 Building Construction	Building Construction	2028/07/22	2030/03/29	5	440
14	Phase 1 Paving	Paving	2030/03/30	2030/05/17	5	35
15	Phase 3 Paving	Paving	2030/05/18	2030/07/05	5	35
16	Phase 1 Architectural Coating	Architectural Coating	2030/07/06	2030/08/23	5	35
17	Phase 2 Architectural Coating	Architectural Coating	2030/08/24	2030/10/11	5	35
18	Phase 3 Architectural Coating	Architectural Coating	2030/10/12	2030/11/29	5	35
19	Phase 4 Architectural Coating	Architectural Coating	2030/11/30	2031/01/17	5	35



California Emissions Estimator Model®

Appendix D
Default Data Tables

Prepared for:
**California Air Pollution Control Officers Association
(CAPCOA)**

Prepared by:
**BREEZE Software, A Division of Trinity Consultants
Dallas, Texas
in collaboration with
South Coast Air Quality Management District and the
California Air Districts**

May 2021
CalEEMod Version 2020.4.0

Table 1.1: Weather Data

LocationType	DisplayName	Number Precipitation Days >0.1 inches		WindSpeed		Evapotranspiration	
		Days	Source	meter/second	Source	inches/year	Source
Counties	Alameda	63	1	2.2	4	44.33	5
	Alpine	74	1	2.2	4	40.60	5
	Amador	63	1	2.2	4	48.85	5
	Butte	71	1	2.2	4	51.55	5
	Calaveras	61	1	2.2	4	48.80	5
	Colusa	56	1	2.2	4	51.80	5
	Contra Costa	58	1	2.2	4	44.79	5
	Del Norte	113	1	2.2	4	27.70	5
	El Dorado-Lake Tahoe	70	1	2.7	3. South Lake Tahoe	47.30	5
	El Dorado-Mountain County	70	1	2.7	3. South Lake Tahoe	47.30	5
	Fresno	45	1	2.2	4	54.31	5
	Glenn	61	1	2.2	4	51.70	5
	Humboldt	103	1	2.2	4	31.38	5
	Imperial	12	1	3.4	2	75.50	5
	Inyo	34	1	2.2	4	72.66	5
	Kern-Mojave Desert	32	1	2.7	3. Bakersfield	55.91	5
	Kern-San Joaquin	32	1	2.7	3. Bakersfield	55.91	5
	Kings	37	1	2.2	4	56.98	5
	Lake	67	1	2.2	4	44.10	5
	Lassen	56	1	2.2	4	46.90	5
	Los Angeles-Mojave Desert	33	1	2.2	4	52.03	5
	Los Angeles-South Coast	33	1	2.2	4	52.03	5
	Madera	51	1	2.9	3. Madera	51.13	5
	Marin	69	1	2.2	4	40.40	5
	Mariposa	58	1	2.2	4	46.40	5
	Mendocino-Coastal	86	1	2.7	2	37.90	5
	Mendocino-Inland	86	1	2.2	2	37.90	5
	Mendocino-Rural Inland North	86	1	2.2	2	37.90	5
	Mendocino-Rural Inland South	86	1	2.2	2	37.90	5
	Merced	49	1	2.2	4	52.20	5
	Modoc	78	1	2.5	3. Alturas	43.20	5
	Mono	54	1	2.2	4	43.00	5
	Monterey	55	2	3.6	3. Monterey	45.31	5
	Napa	64	1	3.6	3. Napa	47.36	5
	Nevada	80	1	2.2	4	47.70	5
	Orange	30	1	2.2	4	47.00	5
	Placer-Lake Tahoe	74	1	2.2	4	42.61	5
	Placer-Mountain Counties	74	1	2.2	4	42.61	5
	Placer-Sacramento	74	1	2.2	4	42.61	5
	Plumas	73	1	2.2	4	39.80	5
	Riverside-Mojave Desert MDAQMD	28	1	2.6	3. Riverside	68.49	5
	Riverside-Mojave Desert South Coast AQMD	28	1	2.6	3. Riverside	68.49	5
	Riverside-Saltion Sea	28	1	2.4	3. Riverside	68.49	5
	Riverside-South Coast	28	1	2.4	3. Riverside	68.49	5
	Sacramento	58	1	3.5	2	53.43	5
	San Benito	50	2	2.5	4	47.13	5
	San Bernardino-Mojave Desert	32	1	2.6	2	69.27	5
	San Bernardino-South Coast	32	1	2.2	4	69.27	5
	San Diego	40	1	2.6	3. San Diego	48.96	5
	San Francisco	64	1	4.6	3. San Francisco	35.10	5
	San Joaquin	51	1	2.7	3. Fresno	49.44	5
	San Luis Obispo	44	1	3.2	3. San Luis Obispo	44.45	5
	San Mateo	70	1	2.2	4	42.00	5
	Santa Barbara-North of Santa Ynez	37	1	3.13	2	46.90	5
	Santa Barbara-South of Santa Ynez Range	37	1	2.73	2	46.90	5
	Santa Clara	58	1	2.2	4	44.86	5
	Santa Cruz	61	1	1.8	4	40.38	5
	Shasta	82	1	2.7	3. Redding	44.08	5
	Sierra	64	1	2.2	4	40.45	5
	Siskiyou	85	1	2.2	4	39.52	5
	Solano-Sacramento	56	1	2.2	4	50.24	5
	Solano-San Francisco	56	1	2.2	2	50.24	5
Sonoma-North Coast	75	1	2.2	4	42.40	5	
Sonoma-San Francisco	75	1	2.2	4	42.40	5	
Stanislaus	46	1	2.2	4	51.34	5	
Sutter	61	1	2.2	4	48.45	5	
Tehama	68	1	3.13	2	53.00	5	
Trinity	88	1	2.2	4	40.05	5	
Tulare	51	1	2.2	4	50.99	5	
Tuolumne	66	1	2.2	4	47.55	5	
Ventura	31	1	2.6	2	47.98	5	
Yolo	54	1	2.2	2	52.18	5	
Yuba	72	1	3.4	3. Marysville-Yuba City	50.15	5	

Table 1.1: Weather Data

LocationType	DisplayName	Number Precipitation Days >0.1 inches		WindSpeed		Evapotranspiration	
		Days	Source	meter/second	Source	inches/year	Source
Air Basins	Great Basin Valleys	54	1	2.2	4	52.09	5
	Lake County	67	1	2.2	4	44.10	5
	Lake Tahoe	72	1	2.7	3. South Lake Tahoe	44.96	5
	Mojave Desert	31	1	2.6	2	61.42	5
	Mountain Counties	8	1	2.2	4	45.50	5
	North Central Coast	53	1	2.8	3 average	44.28	5
	North Coast	93	1	2.2	4	35.89	5
	Northeast Plateau	73	1	2.5	3 average	43.21	5
	Sacramento Valley	65	1	3.5	2	49.93	5
	Salton Sea	20	1	3.4	3 average	71.99	5
	San Diego	40	1	2.6	3. San Diego	48.96	5
	San Francisco Bay Area	64	1	2.2	4	43.64	5
	San Joaquin Valley	45	1	2.7	3 average	53.05	5
	South Central Coast	37	1	2.9	3 average	46.44	5
	South Coast	31	1	2.2	4	59.20	5
Air Districts	Amador County APCD	63	1	2.2	4	48.85	5
	Antelope Valley APCD	33	1	2.2	4	52.03	5
	Bay Area AQMD	64	1	2.2	4	43.64	5
	Butte County AQMD	71	1	2.2	4	51.55	5
	Calaveras County AQMD	61	1	2.2	4	48.80	5
	Colusa County APCD	56	1	2.2	4	51.80	5
	El Dorado County AQMD	70	1	2.7	3 average	47.30	5
	Feather River AQMD	67	1	3.4	3 average	49.30	5
	Glenn County APCD	61	1	2.2	4	51.70	5
	Great Basin UAPCD	54	1	2.2	4	52.09	5
	Imperial County APCD	12	1	3.4	2	75.50	5
	Kern County APCD	32	1	2.7	3. Bakersfield	55.91	5
	Lake County AQMD	67	1	2.2	4	44.10	5
	Lassen County APCD	56	1	2.2	4	46.90	5
	Mariposa County APCD	58	1	2.2	4	46.40	5
	Mendocino County AQMD	86	1	2.2	4	37.90	5
	Modoc County APCD	78	1	2.5	3 average	43.20	5
	Mojave Desert AQMD	30	1	2.6	2	68.88	5
	Monterey Bay Unified APCD	53	1	2.8	3 average	44.28	5
	North Coast Unified APCD	101	1	2.2	4	33.04	5
	Northern Sierra AQMD	72	1	2.2	4	42.65	5
	Northern Sonoma County APCD	75	1	2.2	4	42.40	5
	Placer County APCD	74	1	2.2	4	42.61	5
	Sacramento Metropolitan AQMD	58	1	3.5	2	53.43	5
	San Diego County APCD	40	1	2.6	3. San Diego	48.96	5
	San Joaquin Valley Unified APCD	45	1	2.7	3 average	53.05	5
	San Luis Obispo County APCD	44	1	3.2	3. San Luis Obispo	44.45	5
	Santa Barbara County APCD	37	1	2.9	3 average	46.90	5
	Shasta County AQMD	82	1	2.7	3 average	44.08	5
	Siskiyou County APCD	85	1	2.2	4	39.52	5
	South Coast AQMD	31	1	2.2	4	59.20	5
	Tehama County APCD	68	1	3.13	2	53.00	5
	Tuolumne County APCD	66	1	2.2	4	47.55	5
Ventura County APCD	31	1	2.6	2	47.98	5	
Yolo/Solano AQMD	55	1	2.2	2	51.21	5	
State	Statewide	54	1	2.2	4	47.93	5

Notes:

1. Precipitation Data based on the average of locations in this area according to data from the Western Regional Climate Center available at <https://wrcc.dri.edu/>
2. Data based on District provided information.
3. Wind speed data based on information from the Western Regional Climate Center available at: <https://wrcc.dri.edu/>
4. The statewide default windspeed is 2.2 meters per second.
5. Evapotranspiration rates from Appendix A of Model Water Efficient Landscape Ordinance from the California Department of Water Resources (MWEL009-10-09)

Table 1.2: Electrical Utility Emission Factors of Greenhouse Gases

Utility Name	Intensity Emission Factors (lb/MWh)				Year
	CO ₂ e	CO ₂	CH ₄	N ₂ O	
Alameda Municipal Power ^a	0	0	0	0	2021
Anaheim Public Utilities ^b	1546	1543	0.029	0.00617	2007
Apple Valley Choice Energy ^a	655	653	0.033	0.004	2021
Austin Energy ^b	1086	1083	0.029	0.00617	2008
Baldwin Park Resident Owned Utility District ^a	585	583	0.033	0.004	2021
Bear Valley Electric Service ^a	914	912	0.033	0.004	2021
Burbank Water & Power ^a	932	930	0.033	0.004	2021
City of Commerce ^{a, c}	600	598	0.033	0.004	2022
City of Palo Alto Utilities Department ^a	0	0	0	0	2021
City of Vernon Municipal Light Department ^a	567	565	0.033	0.004	2021
Clean Energy Alliance ^a	964	962	0.033	0.004	2021
Clean Power Alliance ^a	474	472	0.033	0.004	2021
CleanPowerSF ^a	132	130	0.033	0.004	2021
Glendale Water and Power ^a	951	949	0.033	0.004	2021
Imperial Irrigation District ^a	192	190	0.033	0.004	2021
Lancaster Choice Energy ^a	618	616	0.033	0.004	2021
Los Angeles Department of Water & Power ^a	694	692	0.033	0.004	2021
Martines Cogen Ltd. Partnership ^b	948	945	0.029	0.00617	2008
MCE ^a	292	290	0.033	0.004	2021
Merced Irrigation District ^a	293	291	0.033	0.004	2021
Modesto Irrigation District ^a	455	453	0.033	0.004	2021
Pacific Gas and Electric Company ^a	206	204	0.033	0.004	2021
PacifiCorp ^a	1188	1186	0.033	0.004	2021
Pasadena Water and Power ^a	875	873	0.033	0.004	2021
Peninsula Clean Energy ^a	0	0	0	0	2021
Pico Rivera Innovative Municipal Energy ^a	686	684	0.033	0.004	2021
Pioneer Community Energy ^a	767	765	0.033	0.004	2021
Platte River Power Authority ^b	1850	1848	0.029	0.00617	2007
Pomona Choice Energy ^a	618	616	0.033	0.004	2021
Rancho Mirage Energy Authority ^a	647	645	0.033	0.004	2021
Redding Electric Utility ^a	339	337	0.033	0.004	2021
Redwood Coast Energy Authority ^a	408	406	0.033	0.004	2021
Riverside Public Utilities/City of Riverside ^a	792	790	0.033	0.004	2021
Roseville Electric ^a	474	472	0.033	0.004	2021
Sacramento Municipal Utility District ^a	360	358	0.033	0.004	2021
Salt River Project ^b	1472	1470	0.029	0.00617	2007
San Diego Community Power ^{a, c}	583	581	0.033	0.004	2022
San Diego Gas & Electric ^a	542	540	0.033	0.004	2021
San Francisco Public Utilities Commission/City and County of San Francisco ^a	0	0	0	0	2021
San Jacinto Power ^a	643	641	0.033	0.004	2021
San Jose Clean Energy ^a	810	808	0.033	0.004	2021
Santa Barbara Clean Energy ^{a, c}	600	598	0.033	0.004	2022
Seattle City Light ^b	34	31	0.029	0.00617	2009
Sierra Pacific Resources ^b	1331	1328	0.029	0.00617	2008
Silicon Valley Clean Energy ^a	2	2	0	0	2021
Silicon Valley Power ^a	310	308	0.033	0.004	2021
Sonoma Clean Power ^a	122	120	0.033	0.004	2021
Southern California Edison ^a	393	391	0.033	0.004	2021
Turlock Irrigation District ^a	610	608	0.033	0.004	2021
Valley Clean Energy ^a	961	959	0.033	0.004	2021
Western Community Energy ^a	534	532	0.033	0.004	2021
Statewide Average ^d	455	453	0.033	0.004	2019

Appendix D: Default Data Tables

Notes:

- a. The utility provided CO₂e emission factor to SMAQMD.
CH₄ and N₂O are from CAMX region 2019 data, <https://www.epa.gov/eGRID/data-explorer>.
The Global Warming Potential (GWP) applied in the following CO₂ calculation is 25 for CH₄ and 298 for N₂O, from 2007 Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report (AR4), available at: <https://www.ipcc.ch/report/ar4/syrf/>:
$$\text{CO}_2 = \text{CO}_2\text{e} - (\text{CH}_4 \times 25) - (\text{N}_2\text{O} \times 298)$$
- b. Carried over from CalEEMod 2016.3.2
Emission Factors are from May 2010 Local Government Operations Protocol CH₄ and N₂O based on 2012 E-Grid for California (2009 inventory)
The GWP applied in the following CO₂e calculation is 25 for CH₄ and 298 for N₂O, from 2007 IPCC AR4, available at: <https://www.ipcc.ch/report/ar4/syrf/>:
$$\text{CO}_2\text{e} = \text{CO}_2 + (\text{CH}_4 \times 25) + (\text{N}_2\text{O} \times 298)$$
- c. The utility is not expected to begin service until 2022.
- d. CAMX region 2019 data, <https://www.epa.gov/eGRID/data-explorer>.

Table 2.1 Land Use Size Comparisons

LandUseType	LandUseSubType	Acres Per Dwelling Unit ¹	Square Feet Per Dwelling Unit ²
Residential	Single Family Housing	0.32	1800
	Apartments low rise	0.063	1000
	Apartments mid rise	0.026	1000
	Apartments high rise	0.016	1000
	Condo/townhouse	0.063	1000
	Condo/townhouse high rise	0.016	1000
	Mobile Home Park	0.13	1200
	Retirement Community	0.20	1000
	Congregate care (Assisted Living)	0.063	1000

LandUseType	LandUseSubType	LandUseSizeMetric	Acres Per Size Metric	SquareFeet	Other Per 1000 SQFT	
					Value	Metric
Educational	Day-Care Center	1000sqft	0.023	1000	18	Student
					2.8	Employee ³
Educational	Elementary School	1000sqft	0.023	1000	12	Student
					1.0	Employee ³
Educational	Junior High School	1000sqft	0.023	1000	8.5	Student
					0.8	Employee ³
Educational	High School	1000sqft	0.023	1000	7.5	Student
					0.8	Employee ³
Educational	Junior College (2yr)	1000sqft	0.023	1000	23	Student
					0.8	Employee ³
Educational	University/College (4yr)	Student	0.0042	184	1.4	Employee ³
Educational	Library	1000sqft	0.023	1000	1.1	Employee ³
Educational	Place of Worship	1000sqft	0.023	1000	20	Seat
Recreational	City Park	Acre	1	43560		
Recreational	Golf Course	Acre	1	43560		
Recreational	Recreational Swimming Pool	1000sqft	0.023	1000	143	Hole
Recreational	Racquet Club	1000sqft	0.023	1000		
Recreational	Health Club	1000sqft	0.023	1000		
Recreational	Movie Theater (No Matinee)	1000sqft	0.023	1000	0.36	Screen
					44	Seat
Recreational	Arena	1000sqft	0.32	1000	0.023	Acre
Recreational	Quality Restaurant	1000sqft	0.023	1000		
Recreational	High Turnover (Sit Down Restaurant)	1000sqft	0.023	1000		
Recreational	Fast Food Restaurant with Drive Thru	1000sqft	0.023	1000		
Recreational	Fast Food Restaurant w/o Drive Thru	1000sqft	0.023	1000		
Recreational	Hotel	Room	0.033	1452		
Recreational	Motel	Room	0.045	1960		
Parking	Parking Lot	1000sqft	0.023	1000	0.023	Acre
					2.5	Space
Parking	Unenclosed Parking Structure	1000sqft	0.023	1000	0.02	Acre
					2.5	Space
Parking	Enclosed Parking Structure	1000sqft	0.023	1000	0.02	Acre
					2.5	Space
Parking	Unenclosed Parking with Elevator	1000sqft	0.023	1000	0.02	Acre
					2.5	Space
Parking	Enclosed Parking with Elevator	1000sqft	0.023	1000	0.02	Acre
					2.5	Space
Parking	Other Non-Asphalt Surfaces	1000sqft	0.023	1000	0.02	Acre
Parking	Other Asphalt Surfaces	1000sqft	0.023	1000	0.02	Acre
Retail	Free-Standing Discount store	1000sqft	0.023	1000		
Retail	Free-Standing Discount Superstore	1000sqft	0.023	1000		
Retail	Discount Club	1000sqft	0.023	1000		
Retail	Regional Shopping Center	1000sqft	0.023	1000		
Retail	Electronic Superstore	1000sqft	0.023	1000		
Retail	Home Improvement Superstore	1000sqft	0.023	1000		
Retail	Strip Mall	1000sqft	0.023	1000		
Retail	Hardware/Paint Store	1000sqft	0.023	1000		
Retail	Supermarket	1000sqft	0.023	1000		
Retail	Convenience Market (24 hour)	1000sqft	0.023	1000		
Retail	Convenience Market with Gas Pumps	1000sqft	0.023	1000	7.1	Pump
Retail	Automobile Care Center	1000sqft	0.023	1000		
Retail	Gasoline/Service Station	Pump	0.003	141		
Commercial	Bank (with Drive-Through)	1000sqft	0.023	1000		
Commercial	General Office Building	1000sqft	0.023	1000		
Commercial	Office Park	1000sqft	0.023	1000		
Commercial	Research & Development	1000sqft	0.023	1000		
Commercial	Government Office Building	1000sqft	0.023	1000		
Commercial	Government (Civic Center)	1000sqft	0.023	1000		
Commercial	Pharmacy/Drugstore with Drive Thru	1000sqft	0.023	1000		
Commercial	Pharmacy/Drugstore w/o Drive Thru	1000sqft	0.023	1000		
Commercial	Medical Office Building	1000sqft	0.023	1000		
Commercial	Hospital	1000sqft	0.023	1000	1.40	Bed
Industrial	Unrefrigerated Warehouse-No Rail	1000sqft	0.023	1000		
Industrial	Unrefrigerated Warehouse-Rail	1000sqft	0.023	1000		
Industrial	Refrigerated Warehouse-No Rail	1000sqft	0.023	1000		
Industrial	Refrigerated Warehouse-Rail	1000sqft	0.023	1000		
Industrial	General Light Industry	1000sqft	0.023	1000		
Industrial	General Heavy Industry	1000sqft	0.023	1000		
Industrial	Industrial Park	1000sqft	0.023	1000		
Industrial	Manufacturing	1000sqft	0.023	1000		

Notes:

1. Based on ratio of trip rates for the same land uses in the ITE Trip Generation Manual.
2. The value for average dwelling unit square footage is rounded based on the average square footage reported in the RASS.
3. Values based on SCAB survey information of employees per square foot of buildings.

Table 2.2 Population per Dwelling Unit

LocationType	DisplayName	Single Family Homes	Multi-Family Homes	Source
Counties	Alameda	2.86	2.86	1
	Alpine	2.86	2.86	1
	Amador	2.86	2.86	1
	Butte	2.86	2.86	1
	Calaveras	2.86	2.86	1
	Colusa	2.86	2.86	1
	Contra Costa	2.86	2.86	1
	Del Norte	2.86	2.86	1
	El Dorado-Lake Tahoe	2.86	2.86	1
	El Dorado-Mountain County	2.86	2.86	1
	Fresno	2.86	2.86	1
	Glenn	2.86	2.86	1
	Humboldt	2.86	2.86	1
	Imperial	3.23	3.23	2
	Inyo	2.86	2.86	1
	Kern-Mojave Desert	2.86	2.86	1
	Kern-San Joaquin	2.86	2.86	1
	Kings	2.86	2.86	1
	Lake	2.86	2.86	1
	Lassen	2.86	2.86	1
	Los Angeles-Mojave Desert	2.86	2.86	1
	Los Angeles-South Coast	2.86	2.86	1
	Madera	2.86	2.86	1
	Marin	2.86	2.86	1
	Mariposa	2.86	2.86	1
	Mendocino-Coastal	2.86	2.86	1
	Mendocino-Inland	2.86	2.86	1
	Mendocino-Rural Inland North	2.86	2.86	1
	Mendocino-Rural Inland South	2.86	2.86	1
	Merced	2.86	2.86	1
	Modoc	2.86	2.86	1
	Mono	2.86	2.86	1
	Monterey	2.86	2.86	1
	Napa	2.86	2.86	1
	Nevada	2.86	2.86	1
	Orange	2.86	2.86	1
	Placer-Lake Tahoe	2.86	2.86	1
	Placer-Mountain Counties	2.86	2.86	1
	Placer-Sacramento	2.86	2.86	1
	Plumas	2.86	2.86	1
	Riverside-Mojave Desert MDAQMD	2.86	2.86	1
	Riverside-Mojave Desert South Coast AQMD	2.86	2.86	1
	Riverside-Salton Sea	2.86	2.86	1
	Riverside-South Coast	2.86	2.86	1
	Sacramento	2.67	2.67	2
	San Benito	2.86	2.86	1
	San Bernardino-Mojave Desert	2.86	2.86	1
	San Bernardino-South Coast	2.86	2.86	1
	San Diego	2.86	2.86	1
	San Francisco	2.86	2.86	1
San Joaquin	3.172	3.172	2	
San Luis Obispo	2.86	2.86	1	
San Mateo	2.86	2.86	1	
Santa Barbara-North of Santa Ynez	2.72	2.72	2	
Santa Barbara-South of Santa Ynez Range	2.72	2.72	2	
Santa Clara	2.86	2.86	1	
Santa Cruz	2.86	2.86	1	
Shasta	2.86	2.86	1	
Sierra	2.86	2.86	1	
Siskiyou	2.86	2.86	1	
Solano-San Francisco	2.86	2.86	1	
Solano-San Joaquin	2.86	2.86	1	
Sonoma-North Coast	2.86	2.86	1	
Sonoma-San Francisco	2.86	2.86	1	
Stanislaus	2.86	2.86	1	
Sutter	2.86	2.86	1	
Tehama	2.6	2.6	2	
Trinity	2.86	2.86	1	
Tulare	2.86	2.86	1	
Tuolumne	2.86	2.86	1	
Ventura	3.06	3.06	2	
Yolo	2.86	2.86	1	
Yuba	2.86	2.86	1	

Table 2.2 Population per Dwelling Unit

LocationType	DisplayName	Single Family Homes	Multi-Family Homes	Source
Air Basin	Great Basin Valleys	2.86	2.86	1
	Lake County	2.86	2.86	1
	Lake Tahoe	2.86	2.86	1
	Mojave Desert	2.86	2.86	1
	Mountain Counties	2.86	2.86	1
	North Central Coast	2.86	2.86	1
	North Coast	2.86	2.86	1
	Northeast Plateau	2.86	2.86	1
	Sacramento Valley	2.86	2.86	1
	Salton Sea	3.23	3.23	2
	San Diego	2.86	2.86	1
	San Francisco Bay Area	2.86	2.86	1
	San Joaquin Valley	2.86	2.86	1
	South Central Coast	2.86	2.86	1
South Coast	2.86	2.86	1	
Air District	Amador County APCD	2.86	2.86	1
	Antelope Valley APCD	2.86	2.86	1
	Bay Area AQMD	2.86	2.86	1
	Butte County AQMD	2.86	2.86	1
	Calaveras County AQMD	2.86	2.86	1
	Colusa County APCD	2.86	2.86	1
	El Dorado County APCD	2.86	2.86	1
	Feather River AQMD	2.86	2.86	1
	Glenn County APCD	2.86	2.86	1
	Great Basin UAPCD	2.86	2.86	1
	Imperial County APCD	3.23	3.23	2
	Kern County APCD	2.86	2.86	1
	Lake County AQMD	2.86	2.86	1
	Lassen County APCD	2.86	2.86	1
	Mariposa County APCD	2.86	2.86	1
	Mendocino County AQMD	2.86	2.86	1
	Modoc County APCD	2.86	2.86	1
	Mojave Desert AQMD	2.86	2.86	1
	Monterey Bay Unified APCD	2.86	2.86	1
	North Coast Unified APCD	2.86	2.86	1
	Northern Sierra AQMD	2.86	2.86	1
	Northern Sonoma County APCD	2.86	2.86	1
	Placer County APCD	2.86	2.86	1
	Sacramento Metropolitan AQMD	2.67	2.67	2
	San Diego County APCD	2.86	2.86	1
	San Joaquin Valley Unified APCD	3.172	3.172	2
	San Luis Obispo County APCD	2.86	2.86	1
	Santa Barbara County APCD	2.72	2.72	2
	Shasta County AQMD	2.86	2.86	1
	Siskiyou County APCD	2.86	2.86	1
	South Coast AQMD	2.86	2.86	1
	Tehama County APCD	2.6	2.6	2
	Tuolumne County APCD	2.86	2.86	1
Ventura County APCD	3.06	3.06	2	
Yolo/Solano AQMD	2.86	2.86	1	
Statewide	Statewide	2.86	2.86	1

Notes:

1. Based on statewide default of 2.86 people per dwelling unit.
2. Based on district supplied information.

Table 3.1 Phase Length

Project Acres	Demolition Days	Site Preparation Days	Grading Days	Building Construction Days	Paving Days	Architectural Coating Days
≤ 0	0	0	0	0	0	0
≤ 1	10	1	2	100	5	5
≤ 2	20	2	4	200	10	10
≤ 3	20	3	6	220	10	10
≤ 5	20	5	8	230	18	18
≤ 10	20	10	20	230	20	20
≤ 15	20	10	30	300	20	20
≤ 20	20	10	30	300	20	20
≤ 25	20	10	35	370	20	20
≤ 30	30	20	45	440	35	35
≤ 34	30	20	45	500	35	35
≤ 50	50	30	75	740	55	55
≤ 75	70	40	110	1110	75	75
≤ 100	100	60	155	1550	110	110
≤ 200	200	120	310	3100	220	220
≤ 300	300	180	465	4650	330	330
≤ 400	400	240	620	6200	440	440
≤ 500	500	300	775	7750	550	550
≤ 600	600	360	930	9300	660	660
≤ 700	700	420	1085	10850	770	770
≤ 800	800	480	1240	12400	880	880
≤ 900	900	540	1395	13950	990	990
≤ 1000	1000	600	1550	15500	1100	1100
< 10000	10000	6000	15500	155000	11000	11000

Notes:

1. Based on construction survey performed by South Coast AQMD and included in Appendix E. For larger sites beyond the survey size, the number of days from several sites were added together.

Table 3.2 Equipment Lists Based on Project Acreage

PhaseType	EquipmentType	Number of Equipment																						
		≤1	≤2	≤3	≤5	≤10	≤15	≤20	≤25	≤30	≤34	≤50	≤75	≤100	≤200	≤300	≤400	≤500	≤600	≤700	≤800	≤900	≤1000	<10000
Demolition	Excavators				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	Rubber Tired Dozers	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Concrete/Industrial Saws	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Tractors/Loaders/Backhoes	2	3	3																				
Site Preparation	Graders	1	1	1																				
	Tractors/Loaders/Backhoes	1	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
	Rubber Tired Dozers		1		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	Scrapers			1																				
Grading	Rubber Tired Dozers	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Concrete/Industrial Saws																							
	Tractors/Loaders/Backhoes	1	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Graders	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Excavators				1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Building Construction	Scrapers						2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Cranes	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Forklifts	2	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	Tractors/Loaders/Backhoes	2	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	Welders		3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Architectural Coating	Generator Sets		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Air Compressors	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Paving	Pavers	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Cement and Mortar Mixers	4	1	1	2																			
	Rollers	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Tractors/Loaders/Backhoes	1	1	1	1																			
	Paving Equipment		1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

Table 3.2 Equipment Lists Based on Project Acreage

PhaseType	EquipmentType	Hours per Day per Equipment																						
		≤1	≤2	≤3	≤5	≤10	≤15	≤20	≤25	≤30	≤34	≤50	≤75	≤100	≤200	≤300	≤400	≤500	≤600	≤700	≤800	≤900	≤1000	<10000
Demolition	Excavators				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Rubber Tired Dozers	1	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Concrete/Industrial Saws	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Tractors/Loaders/Backhoes	6	8	8																				
Site Preparation	Graders	8	8	8																				
	Tractors/Loaders/Backhoes	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Rubber Tired Dozers		7		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Scrapers			8																				
Grading	Rubber Tired Dozers	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Concrete/Industrial Saws																							
	Tractors/Loaders/Backhoes	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Graders	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Excavators				8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Building Construction	Scrapers					8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Cranes	4	6	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	Forklifts	6	6	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Tractors/Loaders/Backhoes	8	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	Welders		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Architectural Coating	Generator Sets		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
Paving	Air Compressors	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	Pavers	7	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Cement and Mortar Mixers	6	6	8	6																			
	Rollers	7	7	8	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	Tractors/Loaders/Backhoes	7	8	8	8																			
Paving Equipment	Paving Equipment		8	8	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	

- Notes:**
1. Based on construction survey performed by South Coast AQMD and included in Appendix E. For acreage beyond the survey size, equipment lists were kept the same.
 2. An air compressor for architectural coating phases has been added to reflect the use of such equipment in many architectural coating operations.

Table 3.3 OFFROAD Default Horsepower and Load Factors

OFFROAD Equipment Type	Horsepower	Load Factor
Aerial Lifts	63	0.31
Air Compressors	78	0.48
Bore/Drill Rigs	221	0.50
Cement and Mortar Mixers	9	0.56
Concrete/Industrial Saws	81	0.73
Cranes	231	0.29
Crawler Tractors	212	0.43
Crushing/Proc. Equipment	85	0.78
Dumpers/Tenders	16	0.38
Excavators	158	0.38
Forklifts	89	0.20
Generator Sets	84	0.74
Graders	187	0.41
Off-Highway Tractors	124	0.44
Off-Highway Trucks	402	0.38
Other Construction Equipment	172	0.42
Other General Industrial Equipment	88	0.34
Other Material Handling Equipment	168	0.40
Pavers	130	0.42
Paving Equipment	132	0.36
Plate Compactors	8	0.43
Pressure Washers	13	0.30
Pumps	84	0.74
Rollers	80	0.38
Rough Terrain Forklifts	100	0.40
Rubber Tired Dozers	247	0.40
Rubber Tired Loaders	203	0.36
Scrapers	367	0.48
Signal Boards	6	0.82
Skid Steer Loaders	65	0.37
Surfacing Equipment	263	0.30
Sweepers/Scrubbers	64	0.46
Tractors/Loaders/Backhoes	97	0.37
Trenchers	78	0.50
Welders	46	0.45

Notes:

1. Based on the weighted average horsepower (by equipment population) and load factors for the mode of the engine groupings in OFFROAD2011.

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Aerial Lifts	1990	6	15	5.436	1.804	4.999	9.999	0.833	0.968	0.968	568.299	0.162
Aerial Lifts	1990	16	25	8.446	2.213	5	6.92	0.679	0.735	0.735	568.299	0.199
Aerial Lifts	1990	26	50	22.237	3.256	6.91	7.372	0.692	0.948	0.948	568.299	0.293
Aerial Lifts	1990	51	120	25.547	1.927	5.026	13.323	0.628	1.005	1.005	568.299	0.173
Aerial Lifts	1990	251	500	90.051	1.214	6.888	11.7	0.525	0.605	0.605	568.299	0.109
Aerial Lifts	1990	501	750	162.768	1.214	6.887	11.7	0.538	0.605	0.605	568.299	0.109
Aerial Lifts	2000	6	15	4.911	1.629	4.729	8.804	0.079	0.737	0.737	568.299	0.147
Aerial Lifts	2000	16	25	7.927	2.077	4.749	6.401	0.064	0.569	0.569	568.299	0.187
Aerial Lifts	2000	26	50	21.066	3.084	6.643	6.596	0.065	0.711	0.711	568.3	0.278
Aerial Lifts	2000	51	120	20.809	1.569	4.216	9.602	0.059	0.705	0.705	568.299	0.141
Aerial Lifts	2000	251	500	60.706	0.819	3.931	8.191	0.049	0.31	0.31	568.3	0.073
Aerial Lifts	2000	501	750	109.732	0.819	3.931	8.191	0.051	0.31	0.31	568.299	0.073
Aerial Lifts	2005	6	15	2.733	0.907	3.649	5.927	0.079	0.424	0.424	568.3	0.081
Aerial Lifts	2005	16	25	5.948	1.558	3.804	5.978	0.064	0.474	0.474	568.299	0.14
Aerial Lifts	2005	26	50	18.56	2.717	6.122	6.139	0.065	0.657	0.657	568.299	0.245
Aerial Lifts	2005	51	120	17.765	1.34	3.898	8.079	0.059	0.651	0.651	568.299	0.12
Aerial Lifts	2005	251	500	41.275	0.556	2.307	6.521	0.049	0.217	0.217	568.299	0.05
Aerial Lifts	2005	501	750	76.693	0.572	2.307	6.666	0.051	0.219	0.219	568.299	0.051
Aerial Lifts	2010	6	15	0.646663	0.543	3.62771	4.927	0.005	0.322	0.296	583.4159	0.17
Aerial Lifts	2010	16	25	0.646663	0.543	3.62771	4.927	0.005	0.322	0.296	583.4159	0.17
Aerial Lifts	2010	26	50	0.646663	0.543	3.62771	4.927	0.005	0.322	0.296	583.4159	0.17
Aerial Lifts	2010	51	120	0.478206	0.402	3.35167	5.13121	0.005	0.329	0.303	524.5713	0.153
Aerial Lifts	2010	251	500	0.542967	0.456	1.70527	7.02372	0.005	0.22	0.202	524.505	0.153
Aerial Lifts	2010	501	750	54.853	0.409	1.535	5.216	0.005	0.16	0.16	568.299	0.036
Aerial Lifts	2011	6	15	0.492997	0.414	3.43961	4.84101	0.005	0.274	0.253	581.9574	0.17
Aerial Lifts	2011	16	25	0.492997	0.414	3.43961	4.84101	0.005	0.274	0.253	581.9574	0.17
Aerial Lifts	2011	26	50	0.492997	0.414	3.43961	4.84101	0.005	0.274	0.253	581.9574	0.17
Aerial Lifts	2011	51	120	0.406188	0.341	3.31532	4.72007	0.005	0.287	0.264	523.2599	0.153
Aerial Lifts	2011	251	500	0.547278	0.46	1.71344	7.05257	0.005	0.222	0.204	523.1938	0.153
Aerial Lifts	2011	501	750	50.06	0.373	1.402	4.839	0.005	0.144	0.144	568.299	0.033
Aerial Lifts	2012	6	15	0.448839	0.377	3.41137	4.66755	0.005	0.247	0.227	580.4989	0.17
Aerial Lifts	2012	16	25	0.448839	0.377	3.41137	4.66755	0.005	0.247	0.227	580.4989	0.17
Aerial Lifts	2012	26	50	0.448839	0.377	3.41137	4.66755	0.005	0.247	0.227	580.4989	0.17
Aerial Lifts	2012	51	120	0.348327	0.293	3.28979	4.38748	0.005	0.251	0.231	521.9485	0.153
Aerial Lifts	2012	251	500	0.551589	0.463	1.72161	7.08141	0.005	0.225	0.207	521.8825	0.153
Aerial Lifts	2012	501	750	46.364	0.346	1.307	4.488	0.005	0.131	0.131	568.299	0.031
Aerial Lifts	2013	6	15	0.365114	0.307	3.29997	4.33199	0.005	0.196	0.18	577.5818	0.17
Aerial Lifts	2013	16	25	0.365114	0.307	3.29997	4.33199	0.005	0.196	0.18	577.5818	0.17
Aerial Lifts	2013	26	50	0.365114	0.307	3.29997	4.33199	0.005	0.196	0.18	577.5818	0.17
Aerial Lifts	2013	51	120	0.288639	0.243	3.25075	3.92887	0.005	0.202	0.186	519.3256	0.153
Aerial Lifts	2013	251	500	0.277309	0.233	0.97787	4.58384	0.005	0.1	0.092	519.26	0.153
Aerial Lifts	2013	501	750	43.268	0.322	1.237	4.155	0.005	0.119	0.119	568.299	0.029
Aerial Lifts	2014	6	15	0.309966	0.26	3.23337	4.09559	0.005	0.158	0.145	574.6647	0.17
Aerial Lifts	2014	16	25	0.309966	0.26	3.23337	4.09559	0.005	0.158	0.145	574.6647	0.17
Aerial Lifts	2014	26	50	0.309966	0.26	3.23337	4.09559	0.005	0.158	0.145	574.6647	0.17
Aerial Lifts	2014	51	120	0.240786	0.202	3.2195	3.37278	0.005	0.161	0.148	516.7028	0.153
Aerial Lifts	2014	251	500	0.281092	0.236	0.98271	4.60231	0.005	0.101	0.093	516.6375	0.153
Aerial Lifts	2014	501	750	40.165	0.299	1.178	3.761	0.005	0.109	0.109	568.299	0.027
Aerial Lifts	2015	6	15	0.295589	0.248	3.23342	3.93284	0.005	0.136	0.125	568.8305	0.17
Aerial Lifts	2015	16	25	0.295589	0.248	3.23342	3.93284	0.005	0.136	0.125	568.8305	0.17
Aerial Lifts	2015	26	50	0.295589	0.248	3.23342	3.93284	0.005	0.136	0.125	568.8305	0.17
Aerial Lifts	2015	51	120	0.226785	0.191	3.21782	3.1134	0.005	0.143	0.132	511.457	0.153
Aerial Lifts	2015	251	500	0.284874	0.239	0.98755	4.62077	0.005	0.102	0.094	511.3924	0.153
Aerial Lifts	2015	501	750	37.246	0.278	1.13	3.38	0.005	0.098	0.098	568.299	0.025
Aerial Lifts	2016	6	15	0.271111	0.228	3.19737	3.67571	0.005	0.105	0.096	562.9964	0.17
Aerial Lifts	2016	16	25	0.271111	0.228	3.19737	3.67571	0.005	0.105	0.096	562.9964	0.17
Aerial Lifts	2016	26	50	0.271111	0.228	3.19737	3.67571	0.005	0.105	0.096	562.9964	0.17
Aerial Lifts	2016	51	120	0.196986	0.166	3.20103	2.72218	0.005	0.112	0.103	506.2113	0.153
Aerial Lifts	2016	251	500	0.288656	0.243	0.99238	4.63924	0.005	0.103	0.095	506.1474	0.153
Aerial Lifts	2016	501	750	34.529	0.257	1.089	3.015	0.005	0.088	0.088	568.299	0.023
Aerial Lifts	2017	6	15	0.248829	0.209	3.16913	3.46956	0.005	0.079	0.073	554.2451	0.17
Aerial Lifts	2017	16	25	0.248829	0.209	3.16913	3.46956	0.005	0.079	0.073	554.2451	0.17
Aerial Lifts	2017	26	50	0.248829	0.209	3.16913	3.46956	0.005	0.079	0.073	554.2451	0.17
Aerial Lifts	2017	51	120	0.169799	0.143	3.18429	2.36368	0.005	0.083	0.077	498.3428	0.153
Aerial Lifts	2017	251	500	0.292438	0.246	0.99722	4.6577	0.005	0.105	0.096	498.2798	0.153
Aerial Lifts	2017	501	750	32.148	0.239	1.059	2.68	0.005	0.079	0.079	568.299	0.021
Aerial Lifts	2018	6	15	0.216292	0.182	3.11639	3.2101	0.005	0.054	0.05	545.4939	0.17
Aerial Lifts	2018	16	25	0.216292	0.182	3.11639	3.2101	0.005	0.054	0.05	545.4939	0.17
Aerial Lifts	2018	26	50	0.216292	0.182	3.11639	3.2101	0.005	0.054	0.05	545.4939	0.17
Aerial Lifts	2018	51	120	0.145088	0.122	3.16685	2.0636	0.005	0.057	0.052	490.4742	0.153
Aerial Lifts	2018	251	500	0.074117	0.062	0.93655	0.63368	0.005	0.009	0.008	490.4122	0.153

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Aerial Lifts	2018	501	750	30.169	0.225	1.037	2.385	0.005	0.071	0.071	568.299	0.02
Aerial Lifts	2019	6	15	0.204518	0.172	3.11451	3.07945	0.005	0.042	0.038	536.7427	0.17
Aerial Lifts	2019	16	25	0.204518	0.172	3.11451	3.07945	0.005	0.042	0.038	536.7427	0.17
Aerial Lifts	2019	26	50	0.204518	0.172	3.11451	3.07945	0.005	0.042	0.038	536.7427	0.17
Aerial Lifts	2019	51	120	0.14071	0.118	3.17254	1.97658	0.005	0.049	0.045	482.6056	0.153
Aerial Lifts	2019	251	500	0.077988	0.066	0.94139	0.63586	0.005	0.009	0.008	482.5446	0.153
Aerial Lifts	2019	501	750	28.429	0.212	1.023	2.117	0.005	0.064	0.064	568.299	0.019
Aerial Lifts	2020	6	15	0.199447	0.168	3.09942	2.95486	0.005	0.031	0.028	525.0743	0.17
Aerial Lifts	2020	16	25	0.199447	0.168	3.09942	2.95486	0.005	0.031	0.028	525.0743	0.17
Aerial Lifts	2020	26	50	0.199447	0.168	3.09942	2.95486	0.005	0.031	0.028	525.0743	0.17
Aerial Lifts	2020	51	120	0.136778	0.115	3.1768	1.86859	0.005	0.042	0.038	472.1142	0.153
Aerial Lifts	2020	251	500	0.081859	0.069	0.94623	0.63803	0.005	0.009	0.008	472.0545	0.153
Aerial Lifts	2020	501	750	26.846	0.2	1.013	1.868	0.005	0.057	0.057	568.299	0.018
Aerial Lifts	2021	6	15	0.196174	0.165	3.11369	2.92238	0.005	0.027	0.024	525.0743	0.17
Aerial Lifts	2021	16	25	0.196174	0.165	3.11369	2.92238	0.005	0.027	0.024	525.0743	0.17
Aerial Lifts	2021	26	50	0.196174	0.165	3.11369	2.92238	0.005	0.027	0.024	525.0743	0.17
Aerial Lifts	2021	51	120	0.129509	0.109	3.17624	1.74368	0.005	0.033	0.031	472.1142	0.153
Aerial Lifts	2021	251	500	0.08573	0.072	0.95107	0.64021	0.005	0.009	0.008	472.0545	0.153
Aerial Lifts	2021	501	750	25.065	0.187	1.004	1.61	0.005	0.05	0.05	568.299	0.016
Aerial Lifts	2022	6	15	0.192664	0.162	3.11231	2.90676	0.005	0.024	0.022	525.0743	0.17
Aerial Lifts	2022	16	25	0.192664	0.162	3.11231	2.90676	0.005	0.024	0.022	525.0743	0.17
Aerial Lifts	2022	26	50	0.192664	0.162	3.11231	2.90676	0.005	0.024	0.022	525.0743	0.17
Aerial Lifts	2022	51	120	0.124613	0.105	3.17602	1.62659	0.005	0.03	0.028	472.1142	0.153
Aerial Lifts	2022	251	500	0.089601	0.075	0.95591	0.64238	0.005	0.009	0.008	472.0545	0.153
Aerial Lifts	2022	501	750	23.788	0.177	0.998	1.424	0.005	0.044	0.044	568.299	0.016
Aerial Lifts	2023	6	15	0.19346	0.163	3.12196	2.89722	0.005	0.023	0.021	525.0743	0.17
Aerial Lifts	2023	16	25	0.19346	0.163	3.12196	2.89722	0.005	0.023	0.021	525.0743	0.17
Aerial Lifts	2023	26	50	0.19346	0.163	3.12196	2.89722	0.005	0.023	0.021	525.0743	0.17
Aerial Lifts	2023	51	120	0.119594	0.1	3.17029	1.5481	0.005	0.027	0.025	472.1142	0.153
Aerial Lifts	2023	251	500	0.093472	0.079	0.96074	0.64456	0.005	0.009	0.008	472.0545	0.153
Aerial Lifts	2023	501	750	22.675	0.169	0.995	1.265	0.005	0.038	0.038	568.299	0.015
Aerial Lifts	2024	6	15	0.188737	0.159	3.11285	2.88821	0.005	0.022	0.02	525.0743	0.17
Aerial Lifts	2024	16	25	0.188737	0.159	3.11285	2.88821	0.005	0.022	0.02	525.0743	0.17
Aerial Lifts	2024	26	50	0.188737	0.159	3.11285	2.88821	0.005	0.022	0.02	525.0743	0.17
Aerial Lifts	2024	51	120	0.119572	0.1	3.17255	1.52789	0.005	0.026	0.024	472.1142	0.153
Aerial Lifts	2024	251	500	0.097343	0.082	0.96558	0.64674	0.005	0.009	0.009	472.0545	0.153
Aerial Lifts	2024	501	750	21.618	0.161	0.991	1.115	0.005	0.033	0.033	568.299	0.014
Aerial Lifts	2025	6	15	0.182854	0.154	3.08837	2.87882	0.005	0.021	0.019	525.0743	0.17
Aerial Lifts	2025	16	25	0.182854	0.154	3.08837	2.87882	0.005	0.021	0.019	525.0743	0.17
Aerial Lifts	2025	26	50	0.182854	0.154	3.08837	2.87882	0.005	0.021	0.019	525.0743	0.17
Aerial Lifts	2025	51	120	0.117586	0.099	3.16742	1.51077	0.005	0.026	0.024	472.1142	0.153
Aerial Lifts	2025	251	500	0.101214	0.085	0.97042	0.64891	0.005	0.009	0.009	472.0545	0.153
Aerial Lifts	2025	501	750	20.597	0.153	0.989	0.974	0.005	0.028	0.028	568.299	0.013
Aerial Lifts	2030	6	15	1.993	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Aerial Lifts	2030	16	25	2.616	0.685	2.339	4.332	0.007	0.162	0.162	568.299	0.061
Aerial Lifts	2030	26	50	2.317	0.339	3.764	3.135	0.007	0.04	0.04	568.3	0.03
Aerial Lifts	2030	51	120	2.504	0.188	3.352	1.657	0.006	0.036	0.036	568.299	0.017
Aerial Lifts	2030	251	500	9.37	0.126	0.986	0.479	0.005	0.016	0.016	568.299	0.011
Aerial Lifts	2030	501	750	16.962	0.126	0.986	0.485	0.005	0.016	0.016	568.299	0.011
Aerial Lifts	2035	6	15	1.993	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Aerial Lifts	2035	16	25	2.616	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Aerial Lifts	2035	26	50	2.033	0.297	3.726	3.017	0.007	0.019	0.019	568.299	0.026
Aerial Lifts	2035	51	120	2.202	0.166	3.345	1.466	0.006	0.017	0.017	568.299	0.014
Aerial Lifts	2035	251	500	8.659	0.116	0.986	0.33	0.005	0.011	0.011	568.299	0.01
Aerial Lifts	2035	501	750	15.653	0.116	0.986	0.33	0.005	0.011	0.011	568.299	0.01
Aerial Lifts	2040	6	15	1.993	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Aerial Lifts	2040	16	25	2.616	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Aerial Lifts	2040	26	50	2.015	0.295	3.723	2.966	0.007	0.013	0.013	568.299	0.026
Aerial Lifts	2040	51	120	2.141	0.161	3.344	1.407	0.006	0.012	0.012	568.299	0.014
Aerial Lifts	2040	251	500	8.324	0.112	0.986	0.279	0.005	0.009	0.009	568.299	0.01
Aerial Lifts	2040	501	750	15.046	0.112	0.986	0.279	0.005	0.009	0.009	568.299	0.01
Air Compressors	1990	6	15	4.702	1.804	4.999	9.999	1.018	0.974	0.974	568.299	0.162
Air Compressors	1990	16	25	11.537	2.213	4.999	6.919	0.83	0.74	0.74	568.299	0.199
Air Compressors	1990	26	50	34.016	4.232	8.684	7.735	0.846	1.152	1.152	568.3	0.381
Air Compressors	1990	51	120	37.275	2.2	5.46	14.348	0.768	1.216	1.216	568.299	0.198
Air Compressors	1990	121	175	48.032	1.504	4.835	12.906	0.736	0.806	0.806	568.299	0.135
Air Compressors	1990	176	250	71.231	1.504	4.835	12.906	0.736	0.806	0.806	568.299	0.135
Air Compressors	1990	251	500	112.803	1.348	9.633	12.363	0.642	0.704	0.704	568.299	0.121
Air Compressors	1990	501	750	174.334	1.348	9.633	12.363	0.658	0.704	0.704	568.299	0.121
Air Compressors	1990	751	1000	235.953	1.344	9.633	12.363	0.658	0.699	0.699	568.3	0.121
Air Compressors	2000	6	15	4.493	1.723	4.875	9.08	0.079	0.747	0.747	568.299	0.155

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Air Compressors	2000	16	25	10.924	2.095	4.783	6.405	0.065	0.569	0.569	568.299	0.189
Air Compressors	2000	26	50	31.858	3.963	8.261	6.902	0.066	0.851	0.851	568.299	0.357
Air Compressors	2000	51	120	30.02	1.771	4.544	10.276	0.06	0.835	0.835	568.3	0.159
Air Compressors	2000	121	175	37.86	1.185	3.7	9.332	0.057	0.494	0.494	568.299	0.106
Air Compressors	2000	176	250	47.101	0.994	2.949	8.985	0.057	0.406	0.406	568.299	0.089
Air Compressors	2000	251	500	76.009	0.908	5.008	8.611	0.05	0.36	0.36	568.299	0.082
Air Compressors	2000	501	750	117.469	0.908	5.008	8.611	0.051	0.36	0.36	568.299	0.082
Air Compressors	2000	751	1000	176.359	1.004	5.6	9.212	0.051	0.379	0.379	568.299	0.09
Air Compressors	2005	6	15	3.634	1.394	4.38	7.817	0.079	0.621	0.621	568.299	0.125
Air Compressors	2005	16	25	8.461	1.622	3.922	6.014	0.065	0.483	0.483	568.299	0.146
Air Compressors	2005	26	50	28.493	3.545	7.671	6.447	0.066	0.792	0.792	568.299	0.319
Air Compressors	2005	51	120	25.731	1.518	4.196	8.646	0.06	0.775	0.775	568.299	0.137
Air Compressors	2005	121	175	31.762	0.994	3.339	7.911	0.057	0.428	0.428	568.299	0.089
Air Compressors	2005	176	250	33.701	0.711	1.989	7.465	0.057	0.281	0.281	568.299	0.064
Air Compressors	2005	251	500	52.734	0.63	2.602	6.868	0.05	0.252	0.252	568.299	0.056
Air Compressors	2005	501	750	83.252	0.644	2.602	7.019	0.051	0.255	0.255	568.299	0.058
Air Compressors	2005	751	1000	135.834	0.773	3.154	8.036	0.051	0.271	0.271	568.299	0.069
Air Compressors	2010	6	15	2.931	1.124	4.027	6.554	0.008	0.473	0.473	568.299	0.101
Air Compressors	2010	16	25	6.607	1.267	3.309	5.477	0.007	0.384	0.384	568.299	0.114
Air Compressors	2010	26	50	23.546	2.929	7.121	6.067	0.007	0.669	0.669	568.299	0.264
Air Compressors	2010	51	120	20.566	1.213	4.044	7.183	0.006	0.653	0.653	568.299	0.109
Air Compressors	2010	121	175	25.827	0.808	3.277	6.422	0.006	0.361	0.361	568.299	0.072
Air Compressors	2010	176	250	24.871	0.525	1.468	6.008	0.006	0.198	0.198	568.299	0.047
Air Compressors	2010	251	500	39.447	0.471	1.648	5.363	0.005	0.182	0.182	568.299	0.042
Air Compressors	2010	501	750	62.011	0.479	1.648	5.507	0.005	0.185	0.185	568.299	0.043
Air Compressors	2010	751	1000	105.623	0.601	2.147	6.994	0.005	0.209	0.209	568.299	0.054
Air Compressors	2011	6	15	2.782	1.067	3.952	6.283	0.008	0.441	0.441	568.299	0.096
Air Compressors	2011	16	25	6.215	1.192	3.179	5.36	0.007	0.361	0.361	568.299	0.107
Air Compressors	2011	26	50	22.03	2.741	6.919	5.972	0.007	0.636	0.636	568.299	0.247
Air Compressors	2011	51	120	19.321	1.14	4.005	6.805	0.006	0.626	0.626	568.299	0.102
Air Compressors	2011	121	175	24.432	0.765	3.264	6.065	0.006	0.347	0.347	568.299	0.069
Air Compressors	2011	176	250	22.999	0.485	1.372	5.603	0.006	0.177	0.177	568.299	0.043
Air Compressors	2011	251	500	36.661	0.438	1.497	4.981	0.005	0.165	0.165	568.299	0.039
Air Compressors	2011	501	750	57.58	0.445	1.497	5.123	0.005	0.167	0.167	568.299	0.04
Air Compressors	2011	751	1000	98.738	0.562	1.971	6.637	0.005	0.196	0.196	568.299	0.05
Air Compressors	2012	6	15	2.626	1.007	3.874	5.999	0.008	0.407	0.407	568.299	0.09
Air Compressors	2012	16	25	5.803	1.113	3.043	5.239	0.007	0.337	0.337	568.299	0.1
Air Compressors	2012	26	50	20.318	2.527	6.682	5.869	0.007	0.6	0.6	568.299	0.228
Air Compressors	2012	51	120	17.991	1.061	3.964	6.39	0.006	0.587	0.587	568.299	0.095
Air Compressors	2012	121	175	22.92	0.717	3.251	5.684	0.006	0.324	0.324	568.299	0.064
Air Compressors	2012	176	250	21.576	0.455	1.312	5.216	0.006	0.161	0.161	568.299	0.041
Air Compressors	2012	251	500	34.608	0.413	1.392	4.618	0.005	0.15	0.15	568.299	0.037
Air Compressors	2012	501	750	54.283	0.419	1.392	4.758	0.005	0.153	0.153	568.299	0.037
Air Compressors	2012	751	1000	91.671	0.522	1.8	6.263	0.005	0.183	0.183	568.299	0.047
Air Compressors	2013	6	15	2.471	0.948	3.796	5.716	0.008	0.373	0.373	568.299	0.085
Air Compressors	2013	16	25	5.393	1.034	2.907	5.117	0.007	0.314	0.314	568.299	0.093
Air Compressors	2013	26	50	18.508	2.302	6.43	5.643	0.007	0.553	0.553	568.299	0.207
Air Compressors	2013	51	120	16.632	0.981	3.921	5.978	0.006	0.543	0.543	568.299	0.088
Air Compressors	2013	121	175	21.377	0.669	3.238	5.321	0.006	0.298	0.298	568.299	0.06
Air Compressors	2013	176	250	20.386	0.43	1.271	4.839	0.006	0.147	0.147	568.299	0.038
Air Compressors	2013	251	500	32.936	0.393	1.313	4.268	0.005	0.137	0.137	568.3	0.035
Air Compressors	2013	501	750	51.584	0.399	1.313	4.406	0.005	0.14	0.14	568.299	0.036
Air Compressors	2013	751	1000	84.725	0.482	1.639	5.883	0.005	0.17	0.17	568.299	0.043
Air Compressors	2014	6	15	2.324	0.891	3.723	5.445	0.008	0.341	0.341	568.3	0.08
Air Compressors	2014	16	25	5.008	0.96	2.78	5	0.007	0.291	0.291	568.299	0.086
Air Compressors	2014	26	50	16.691	2.076	6.181	5.421	0.007	0.505	0.505	568.299	0.187
Air Compressors	2014	51	120	15.28	0.901	3.88	5.608	0.006	0.495	0.495	568.299	0.081
Air Compressors	2014	121	175	19.856	0.621	3.227	4.973	0.006	0.272	0.272	568.299	0.056
Air Compressors	2014	176	250	19.194	0.405	1.237	4.399	0.006	0.134	0.134	568.299	0.036
Air Compressors	2014	251	500	31.25	0.373	1.249	3.855	0.005	0.125	0.125	568.299	0.033
Air Compressors	2014	501	750	48.868	0.378	1.249	3.991	0.005	0.128	0.128	568.299	0.034
Air Compressors	2014	751	1000	78.19	0.445	1.493	5.512	0.005	0.157	0.157	568.3	0.04
Air Compressors	2015	6	15	2.191	0.84	3.658	5.196	0.008	0.311	0.311	568.299	0.075
Air Compressors	2015	16	25	4.662	0.894	2.666	4.89	0.007	0.27	0.27	568.299	0.08
Air Compressors	2015	26	50	15.015	1.868	5.968	5.223	0.007	0.459	0.459	568.299	0.168
Air Compressors	2015	51	120	13.925	0.821	3.84	5.19	0.006	0.446	0.446	568.299	0.074
Air Compressors	2015	121	175	18.243	0.571	3.218	4.504	0.006	0.245	0.245	568.299	0.051
Air Compressors	2015	176	250	18.067	0.381	1.207	3.967	0.006	0.121	0.121	568.299	0.034
Air Compressors	2015	251	500	29.662	0.354	1.198	3.455	0.005	0.113	0.113	568.3	0.032
Air Compressors	2015	501	750	46.316	0.358	1.198	3.586	0.005	0.116	0.116	568.299	0.032
Air Compressors	2015	751	1000	71.885	0.409	1.37	5.157	0.005	0.142	0.142	568.299	0.036

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Air Compressors	2016	6	15	2.109	0.809	3.622	5.023	0.008	0.289	0.289	568.299	0.073
Air Compressors	2016	16	25	4.462	0.855	2.604	4.803	0.007	0.255	0.255	568.299	0.077
Air Compressors	2016	26	50	13.429	1.67	5.779	5.042	0.007	0.415	0.415	568.299	0.15
Air Compressors	2016	51	120	12.618	0.744	3.804	4.79	0.006	0.397	0.397	568.299	0.067
Air Compressors	2016	121	175	16.69	0.522	3.211	4.052	0.006	0.219	0.219	568.299	0.047
Air Compressors	2016	176	250	17.023	0.359	1.182	3.553	0.006	0.109	0.109	568.299	0.032
Air Compressors	2016	251	500	28.188	0.337	1.155	3.08	0.005	0.102	0.102	568.299	0.03
Air Compressors	2016	501	750	43.972	0.34	1.155	3.201	0.005	0.104	0.104	568.299	0.03
Air Compressors	2016	751	1000	67.278	0.383	1.295	4.854	0.005	0.131	0.131	568.299	0.034
Air Compressors	2017	6	15	2.05	0.786	3.599	4.887	0.008	0.272	0.272	568.299	0.07
Air Compressors	2017	16	25	4.327	0.83	2.564	4.729	0.007	0.243	0.243	568.299	0.074
Air Compressors	2017	26	50	11.908	1.481	5.604	4.871	0.007	0.371	0.371	568.299	0.133
Air Compressors	2017	51	120	11.385	0.671	3.772	4.412	0.006	0.35	0.35	568.299	0.06
Air Compressors	2017	121	175	15.244	0.477	3.207	3.627	0.006	0.194	0.194	568.299	0.043
Air Compressors	2017	176	250	16.09	0.339	1.162	3.163	0.006	0.098	0.098	568.299	0.03
Air Compressors	2017	251	500	26.901	0.321	1.123	2.755	0.005	0.092	0.092	568.299	0.029
Air Compressors	2017	501	750	41.87	0.323	1.123	2.845	0.005	0.094	0.094	568.299	0.029
Air Compressors	2017	751	1000	63.572	0.362	1.246	4.583	0.005	0.121	0.121	568.299	0.032
Air Compressors	2018	6	15	1.998	0.766	3.58	4.762	0.008	0.256	0.256	568.299	0.069
Air Compressors	2018	16	25	4.211	0.807	2.531	4.661	0.007	0.232	0.232	568.3	0.072
Air Compressors	2018	26	50	10.449	1.3	5.439	4.707	0.007	0.329	0.329	568.299	0.117
Air Compressors	2018	51	120	10.218	0.603	3.744	4.05	0.006	0.304	0.304	568.3	0.054
Air Compressors	2018	121	175	13.906	0.435	3.205	3.228	0.006	0.17	0.17	568.299	0.039
Air Compressors	2018	176	250	15.223	0.321	1.146	2.797	0.006	0.087	0.087	568.3	0.029
Air Compressors	2018	251	500	25.723	0.307	1.101	2.465	0.005	0.083	0.083	568.299	0.027
Air Compressors	2018	501	750	39.953	0.309	1.101	2.533	0.005	0.084	0.084	568.299	0.027
Air Compressors	2018	751	1000	60.205	0.343	1.21	4.325	0.005	0.111	0.111	568.299	0.03
Air Compressors	2019	6	15	1.951	0.748	3.562	4.647	0.008	0.241	0.241	568.299	0.067
Air Compressors	2019	16	25	4.106	0.787	2.501	4.596	0.007	0.222	0.222	568.299	0.071
Air Compressors	2019	26	50	9.076	1.129	5.283	4.546	0.007	0.287	0.287	568.299	0.101
Air Compressors	2019	51	120	9.123	0.538	3.718	3.706	0.006	0.26	0.26	568.299	0.048
Air Compressors	2019	121	175	12.833	0.401	3.204	2.874	0.006	0.15	0.15	568.299	0.036
Air Compressors	2019	176	250	14.416	0.304	1.132	2.469	0.006	0.078	0.078	568.299	0.027
Air Compressors	2019	251	500	24.559	0.293	1.086	2.193	0.005	0.075	0.075	568.299	0.026
Air Compressors	2019	501	750	38.104	0.294	1.086	2.247	0.005	0.076	0.076	568.299	0.026
Air Compressors	2019	751	1000	56.984	0.324	1.182	4.073	0.005	0.102	0.102	568.299	0.029
Air Compressors	2020	6	15	1.907	0.731	3.546	4.542	0.008	0.227	0.227	568.299	0.066
Air Compressors	2020	16	25	4.009	0.769	2.473	4.538	0.007	0.212	0.212	568.3	0.069
Air Compressors	2020	26	50	8.048	1.001	5.164	4.397	0.007	0.25	0.25	568.299	0.09
Air Compressors	2020	51	120	8.287	0.489	3.698	3.4	0.006	0.224	0.224	568.299	0.044
Air Compressors	2020	121	175	11.957	0.374	3.203	2.558	0.006	0.133	0.133	568.299	0.033
Air Compressors	2020	176	250	13.668	0.288	1.121	2.172	0.006	0.069	0.069	568.299	0.026
Air Compressors	2020	251	500	23.406	0.279	1.076	1.935	0.005	0.067	0.067	568.299	0.025
Air Compressors	2020	501	750	36.303	0.28	1.076	1.982	0.005	0.067	0.067	568.299	0.025
Air Compressors	2020	751	1000	53.87	0.306	1.158	3.828	0.005	0.093	0.093	568.3	0.027
Air Compressors	2021	6	15	1.87	0.717	3.531	4.462	0.008	0.214	0.214	568.299	0.064
Air Compressors	2021	16	25	3.923	0.752	2.446	4.497	0.007	0.201	0.201	568.299	0.067
Air Compressors	2021	26	50	7.136	0.887	5.021	4.221	0.007	0.212	0.212	568.299	0.08
Air Compressors	2021	51	120	7.502	0.442	3.67	3.083	0.006	0.19	0.19	568.299	0.039
Air Compressors	2021	121	175	10.967	0.343	3.192	2.218	0.006	0.115	0.115	568.299	0.03
Air Compressors	2021	176	250	12.728	0.268	1.108	1.859	0.006	0.06	0.06	568.299	0.024
Air Compressors	2021	251	500	21.887	0.261	1.064	1.663	0.005	0.058	0.058	568.299	0.023
Air Compressors	2021	501	750	33.933	0.262	1.064	1.699	0.005	0.058	0.058	568.299	0.023
Air Compressors	2021	751	1000	49.951	0.284	1.134	3.565	0.005	0.082	0.082	568.3	0.025
Air Compressors	2022	6	15	1.844	0.707	3.519	4.408	0.008	0.203	0.203	568.299	0.063
Air Compressors	2022	16	25	3.857	0.739	2.426	4.47	0.007	0.193	0.193	568.299	0.066
Air Compressors	2022	26	50	6.549	0.814	4.959	4.093	0.007	0.183	0.183	568.299	0.073
Air Compressors	2022	51	120	7.001	0.413	3.662	2.844	0.006	0.165	0.165	568.299	0.037
Air Compressors	2022	121	175	10.29	0.322	3.194	1.959	0.006	0.101	0.101	568.299	0.029
Air Compressors	2022	176	250	12.099	0.255	1.102	1.617	0.006	0.052	0.052	568.3	0.023
Air Compressors	2022	251	500	20.881	0.249	1.059	1.472	0.005	0.051	0.051	568.299	0.022
Air Compressors	2022	501	750	32.363	0.25	1.059	1.502	0.005	0.051	0.051	568.299	0.022
Air Compressors	2022	751	1000	47.338	0.269	1.117	3.378	0.005	0.075	0.075	568.3	0.024
Air Compressors	2023	6	15	1.82	0.698	3.508	4.359	0.008	0.194	0.194	568.299	0.063
Air Compressors	2023	16	25	3.798	0.728	2.407	4.447	0.007	0.186	0.186	568.299	0.065
Air Compressors	2023	26	50	6.056	0.753	4.913	3.975	0.007	0.156	0.156	568.299	0.067
Air Compressors	2023	51	120	6.568	0.387	3.657	2.631	0.006	0.143	0.143	568.299	0.034
Air Compressors	2023	121	175	9.693	0.303	3.197	1.748	0.006	0.089	0.089	568.299	0.027
Air Compressors	2023	176	250	11.532	0.243	1.099	1.42	0.006	0.045	0.045	568.299	0.021
Air Compressors	2023	251	500	19.964	0.238	1.055	1.305	0.005	0.044	0.044	568.299	0.021
Air Compressors	2023	501	750	30.933	0.239	1.055	1.331	0.005	0.044	0.044	568.299	0.021

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Air Compressors	2023	751	1000	44.985	0.256	1.102	3.221	0.005	0.068	0.068	568.299	0.023
Air Compressors	2024	6	15	1.799	0.69	3.499	4.316	0.008	0.188	0.188	568.3	0.062
Air Compressors	2024	16	25	3.746	0.718	2.39	4.426	0.007	0.181	0.181	568.3	0.064
Air Compressors	2024	26	50	5.647	0.702	4.88	3.864	0.007	0.135	0.135	568.299	0.063
Air Compressors	2024	51	120	6.194	0.365	3.655	2.461	0.006	0.123	0.123	568.299	0.032
Air Compressors	2024	121	175	9.143	0.286	3.202	1.561	0.006	0.077	0.077	568.299	0.025
Air Compressors	2024	176	250	10.986	0.232	1.096	1.247	0.006	0.039	0.039	568.299	0.02
Air Compressors	2024	251	500	19.07	0.228	1.053	1.148	0.005	0.038	0.038	568.299	0.02
Air Compressors	2024	501	750	29.542	0.228	1.053	1.171	0.005	0.038	0.038	568.299	0.02
Air Compressors	2024	751	1000	42.762	0.243	1.09	3.082	0.005	0.061	0.061	568.299	0.021
Air Compressors	2025	6	15	1.781	0.683	3.491	4.278	0.008	0.183	0.183	568.3	0.061
Air Compressors	2025	16	25	3.701	0.709	2.376	4.407	0.007	0.177	0.177	568.299	0.064
Air Compressors	2025	26	50	5.297	0.659	4.851	3.755	0.007	0.116	0.116	568.299	0.059
Air Compressors	2025	51	120	5.855	0.345	3.653	2.313	0.006	0.104	0.104	568.299	0.031
Air Compressors	2025	121	175	8.602	0.269	3.205	1.383	0.006	0.065	0.065	568.299	0.024
Air Compressors	2025	176	250	10.451	0.22	1.094	1.086	0.006	0.033	0.033	568.299	0.019
Air Compressors	2025	251	500	18.188	0.217	1.051	1.001	0.005	0.032	0.032	568.299	0.019
Air Compressors	2025	501	750	28.169	0.217	1.051	1.021	0.005	0.032	0.032	568.299	0.019
Air Compressors	2025	751	1000	40.592	0.231	1.079	2.954	0.005	0.055	0.055	568.299	0.02
Air Compressors	2030	6	15	1.73	0.663	3.47	4.164	0.008	0.166	0.166	568.299	0.059
Air Compressors	2030	16	25	3.582	0.687	2.34	4.347	0.007	0.165	0.165	568.299	0.061
Air Compressors	2030	26	50	4.073	0.506	4.712	3.34	0.007	0.046	0.046	568.299	0.045
Air Compressors	2030	51	120	4.485	0.264	3.63	1.729	0.006	0.041	0.041	568.299	0.023
Air Compressors	2030	121	175	6.186	0.193	3.205	0.633	0.006	0.027	0.027	568.299	0.017
Air Compressors	2030	176	250	8.495	0.179	1.092	0.529	0.006	0.018	0.018	568.299	0.016
Air Compressors	2030	251	500	14.937	0.178	1.048	0.499	0.005	0.017	0.017	568.299	0.016
Air Compressors	2030	501	750	23.104	0.178	1.048	0.505	0.005	0.017	0.017	568.3	0.016
Air Compressors	2030	751	1000	32.103	0.182	1.049	2.6	0.005	0.033	0.033	568.299	0.016
Air Compressors	2035	6	15	1.724	0.661	3.469	4.143	0.008	0.162	0.162	568.3	0.059
Air Compressors	2035	16	25	3.574	0.685	2.339	4.332	0.007	0.162	0.162	568.299	0.061
Air Compressors	2035	26	50	3.722	0.463	4.674	3.215	0.007	0.023	0.023	568.299	0.041
Air Compressors	2035	51	120	4.047	0.238	3.623	1.53	0.006	0.02	0.02	568.299	0.021
Air Compressors	2035	121	175	5.429	0.17	3.205	0.391	0.006	0.015	0.015	568.3	0.015
Air Compressors	2035	176	250	7.862	0.166	1.091	0.347	0.006	0.012	0.012	568.299	0.014
Air Compressors	2035	251	500	13.882	0.166	1.048	0.343	0.005	0.012	0.012	568.299	0.014
Air Compressors	2035	501	750	21.455	0.166	1.048	0.344	0.005	0.012	0.012	568.299	0.014
Air Compressors	2035	751	1000	29.363	0.167	1.048	2.473	0.005	0.026	0.026	568.299	0.015
Air Compressors	2040	6	15	1.724	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Air Compressors	2040	16	25	3.574	0.685	2.339	4.332	0.007	0.161	0.161	568.3	0.061
Air Compressors	2040	26	50	3.683	0.458	4.659	3.159	0.007	0.016	0.016	568.3	0.041
Air Compressors	2040	51	120	3.94	0.232	3.619	1.468	0.006	0.015	0.015	568.299	0.02
Air Compressors	2040	121	175	5.155	0.161	3.201	0.307	0.006	0.012	0.012	568.299	0.014
Air Compressors	2040	176	250	7.58	0.16	1.09	0.291	0.006	0.01	0.01	568.299	0.014
Air Compressors	2040	251	500	13.386	0.16	1.047	0.291	0.005	0.01	0.01	568.3	0.014
Air Compressors	2040	501	750	20.688	0.16	1.047	0.291	0.005	0.01	0.01	568.299	0.014
Air Compressors	2040	751	1000	28.179	0.16	1.047	2.439	0.005	0.023	0.023	568.299	0.014
Bore/Drill Rigs	1990	6	15	4.968	1.804	4.999	9.999	1.049	0.975	0.975	568.299	0.162
Bore/Drill Rigs	1990	16	25	9.418	2.213	4.999	6.919	0.855	0.741	0.741	568.299	0.199
Bore/Drill Rigs	1990	26	50	34.076	4.124	8.505	7.685	0.871	1.134	1.134	568.299	0.372
Bore/Drill Rigs	1990	51	120	42.911	2.09	5.23	13.647	0.791	1.172	1.172	568.299	0.188
Bore/Drill Rigs	1990	121	175	53.24	1.417	4.578	12.365	0.758	0.749	0.749	568.299	0.127
Bore/Drill Rigs	1990	176	250	70.987	1.417	4.578	12.365	0.758	0.749	0.749	568.299	0.127
Bore/Drill Rigs	1990	251	500	105.966	1.278	8.788	11.861	0.662	0.658	0.658	568.299	0.115
Bore/Drill Rigs	1990	501	750	209.372	1.278	8.788	11.861	1.018	0.67	0.67	568.3	0.115
Bore/Drill Rigs	1990	751	1000	313.129	1.267	8.788	11.861	1.018	0.656	0.656	568.3	0.114
Bore/Drill Rigs	2000	6	15	4.063	1.475	4.49	8.242	0.079	0.676	0.676	568.299	0.133
Bore/Drill Rigs	2000	16	25	8.334	1.958	4.53	6.358	0.065	0.563	0.563	568.299	0.176
Bore/Drill Rigs	2000	26	50	27.226	3.295	7.058	6.48	0.066	0.748	0.748	568.299	0.297
Bore/Drill Rigs	2000	51	120	30.002	1.461	3.947	8.27	0.06	0.726	0.726	568.299	0.131
Bore/Drill Rigs	2000	121	175	37.634	1.002	3.062	7.789	0.057	0.405	0.405	568.3	0.09
Bore/Drill Rigs	2000	176	250	32.523	0.649	1.698	7.203	0.057	0.238	0.238	568.3	0.058
Bore/Drill Rigs	2000	251	500	51.06	0.616	1.728	6.993	0.05	0.224	0.224	568.299	0.055
Bore/Drill Rigs	2000	501	750	100.887	0.616	1.728	6.993	0.052	0.224	0.224	568.299	0.055
Bore/Drill Rigs	2000	751	1000	199.748	0.808	2.73	8.005	0.052	0.282	0.282	568.299	0.072
Bore/Drill Rigs	2005	6	15	2.109	0.766	3.469	5.228	0.079	0.361	0.361	568.299	0.069
Bore/Drill Rigs	2005	16	25	3.913	0.919	2.642	5.412	0.065	0.347	0.347	568.299	0.082
Bore/Drill Rigs	2005	26	50	20.086	2.431	5.897	5.697	0.066	0.625	0.625	568.299	0.219
Bore/Drill Rigs	2005	51	120	24.211	1.179	3.812	6.895	0.06	0.64	0.64	568.3	0.106
Bore/Drill Rigs	2005	121	175	27.251	0.725	3.035	6.246	0.057	0.328	0.328	568.299	0.065
Bore/Drill Rigs	2005	176	250	19.806	0.395	1.094	5.8	0.057	0.145	0.145	568.299	0.035
Bore/Drill Rigs	2005	251	500	27.527	0.332	1.068	5.051	0.05	0.133	0.133	568.299	0.029

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Bore/Drill Rigs	2025	176	250	0.127813	0.107	1.04484	0.95717	0.005	0.031	0.029	470.6535	0.152
Bore/Drill Rigs	2025	251	500	0.120956	0.102	0.99738	0.82299	0.005	0.028	0.026	467.2892	0.151
Bore/Drill Rigs	2025	501	750	0.100521	0.084	0.98349	0.59628	0.005	0.023	0.021	481.2495	0.156
Bore/Drill Rigs	2025	751	1000	0.07426	0.062	0.95339	2.28923	0.005	0.019	0.017	471.9168	0.153
Bore/Drill Rigs	2030	6	15	1.821	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Bore/Drill Rigs	2030	16	25	2.917	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Bore/Drill Rigs	2030	26	50	2.88	0.348	4.029	3.02	0.007	0.013	0.013	568.299	0.031
Bore/Drill Rigs	2030	51	120	3.773	0.183	3.434	1.415	0.006	0.012	0.012	568.299	0.016
Bore/Drill Rigs	2030	121	175	4.786	0.127	3.038	0.279	0.006	0.01	0.01	568.299	0.011
Bore/Drill Rigs	2030	176	250	6.363	0.127	1.035	0.274	0.006	0.01	0.01	568.299	0.011
Bore/Drill Rigs	2030	251	500	10.531	0.127	1.006	0.274	0.005	0.01	0.01	568.299	0.011
Bore/Drill Rigs	2030	501	750	20.808	0.127	1.006	0.274	0.005	0.01	0.01	568.299	0.011
Bore/Drill Rigs	2030	751	1000	31.441	0.127	1.006	2.372	0.005	0.021	0.021	568.299	0.011
Bore/Drill Rigs	2035	6	15	1.821	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Bore/Drill Rigs	2035	16	25	2.917	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Bore/Drill Rigs	2035	26	50	2.881	0.348	4.03	3.019	0.007	0.013	0.013	568.299	0.031
Bore/Drill Rigs	2035	51	120	3.768	0.183	3.434	1.411	0.006	0.012	0.012	568.3	0.016
Bore/Drill Rigs	2035	121	175	4.767	0.126	3.039	0.272	0.006	0.01	0.01	568.299	0.011
Bore/Drill Rigs	2035	176	250	6.357	0.126	1.035	0.272	0.006	0.01	0.01	568.299	0.011
Bore/Drill Rigs	2035	251	500	10.52	0.126	1.006	0.272	0.005	0.01	0.01	568.299	0.011
Bore/Drill Rigs	2035	501	750	20.787	0.126	1.006	0.272	0.005	0.01	0.01	568.299	0.011
Bore/Drill Rigs	2035	751	1000	31.372	0.126	1.006	2.372	0.005	0.021	0.021	568.299	0.011
Bore/Drill Rigs	2040	6	15	1.821	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Bore/Drill Rigs	2040	16	25	2.917	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Bore/Drill Rigs	2040	26	50	2.883	0.348	4.032	3.019	0.007	0.013	0.013	568.3	0.031
Bore/Drill Rigs	2040	51	120	3.77	0.183	3.435	1.411	0.006	0.012	0.012	568.299	0.016
Bore/Drill Rigs	2040	121	175	4.77	0.127	3.039	0.272	0.006	0.01	0.01	568.299	0.011
Bore/Drill Rigs	2040	176	250	6.36	0.127	1.035	0.272	0.006	0.01	0.01	568.3	0.011
Bore/Drill Rigs	2040	251	500	10.526	0.127	1.006	0.272	0.005	0.01	0.01	568.299	0.011
Bore/Drill Rigs	2040	501	750	20.799	0.127	1.006	0.272	0.005	0.01	0.01	568.299	0.011
Bore/Drill Rigs	2040	751	1000	31.389	0.127	1.006	2.372	0.005	0.021	0.021	568.299	0.011
Cement and Mortar Mixers	1990	6	15	2.932	1.804	4.999	9.999	1.049	0.975	0.975	568.299	0.162
Cement and Mortar Mixers	1990	16	25	9.992	2.213	4.999	6.919	0.855	0.741	0.741	568.299	0.199
Cement and Mortar Mixers	2000	6	15	2.702	1.662	4.78	8.911	0.079	0.745	0.745	568.299	0.15
Cement and Mortar Mixers	2000	16	25	9.397	2.081	4.757	6.401	0.065	0.569	0.569	568.299	0.187
Cement and Mortar Mixers	2005	6	15	1.628	1.001	3.791	6.3	0.079	0.465	0.465	568.299	0.09
Cement and Mortar Mixers	2005	16	25	6.992	1.548	3.786	5.963	0.065	0.471	0.471	568.299	0.139
Cement and Mortar Mixers	2010	6	15	1.153	0.709	3.492	4.545	0.008	0.26	0.26	568.299	0.064
Cement and Mortar Mixers	2010	16	25	5.056	1.119	3.049	5.286	0.007	0.346	0.346	568.299	0.101
Cement and Mortar Mixers	2011	6	15	1.114	0.685	3.479	4.351	0.008	0.231	0.231	568.299	0.061
Cement and Mortar Mixers	2011	16	25	4.656	1.031	2.897	5.144	0.007	0.319	0.319	568.299	0.093
Cement and Mortar Mixers	2012	6	15	1.096	0.674	3.472	4.272	0.008	0.209	0.209	568.299	0.06
Cement and Mortar Mixers	2012	16	25	4.288	0.949	2.757	5.012	0.007	0.293	0.293	568.299	0.085
Cement and Mortar Mixers	2013	6	15	1.087	0.669	3.469	4.223	0.008	0.191	0.191	568.299	0.06
Cement and Mortar Mixers	2013	16	25	3.952	0.875	2.63	4.887	0.007	0.269	0.269	568.299	0.078
Cement and Mortar Mixers	2014	6	15	1.082	0.666	3.469	4.191	0.008	0.177	0.177	568.299	0.06
Cement and Mortar Mixers	2014	16	25	3.783	0.837	2.57	4.793	0.007	0.253	0.253	568.299	0.075
Cement and Mortar Mixers	2015	6	15	1.079	0.663	3.469	4.168	0.008	0.171	0.171	568.3	0.059
Cement and Mortar Mixers	2015	16	25	3.664	0.811	2.531	4.712	0.007	0.24	0.24	568.299	0.073
Cement and Mortar Mixers	2016	6	15	1.076	0.662	3.469	4.153	0.008	0.167	0.167	568.3	0.059
Cement and Mortar Mixers	2016	16	25	3.558	0.788	2.496	4.636	0.007	0.227	0.227	568.299	0.071
Cement and Mortar Mixers	2017	6	15	1.075	0.661	3.469	4.145	0.008	0.165	0.165	568.299	0.059
Cement and Mortar Mixers	2017	16	25	3.466	0.767	2.466	4.567	0.007	0.216	0.216	568.299	0.069
Cement and Mortar Mixers	2018	6	15	1.075	0.661	3.469	4.142	0.008	0.163	0.163	568.299	0.059
Cement and Mortar Mixers	2018	16	25	3.384	0.749	2.44	4.504	0.007	0.205	0.205	568.299	0.067
Cement and Mortar Mixers	2019	6	15	1.075	0.661	3.469	4.142	0.008	0.162	0.162	568.299	0.059
Cement and Mortar Mixers	2019	16	25	3.321	0.735	2.417	4.469	0.007	0.196	0.196	568.299	0.066
Cement and Mortar Mixers	2020	6	15	1.075	0.661	3.47	4.142	0.008	0.161	0.161	568.299	0.059
Cement and Mortar Mixers	2020	16	25	3.265	0.723	2.397	4.442	0.007	0.187	0.187	568.299	0.065
Cement and Mortar Mixers	2021	6	15	1.075	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Cement and Mortar Mixers	2021	16	25	3.219	0.712	2.381	4.419	0.007	0.18	0.18	568.299	0.064
Cement and Mortar Mixers	2022	6	15	1.075	0.661	3.47	4.142	0.008	0.161	0.161	568.299	0.059
Cement and Mortar Mixers	2022	16	25	3.182	0.704	2.367	4.399	0.007	0.175	0.175	568.299	0.063
Cement and Mortar Mixers	2023	6	15	1.075	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Cement and Mortar Mixers	2023	16	25	3.151	0.697	2.356	4.382	0.007	0.172	0.172	568.299	0.062
Cement and Mortar Mixers	2024	6	15	1.075	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Cement and Mortar Mixers	2024	16	25	3.129	0.693	2.349	4.369	0.007	0.17	0.17	568.299	0.062
Cement and Mortar Mixers	2025	6	15	1.075	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Cement and Mortar Mixers	2025	16	25	3.113	0.689	2.344	4.357	0.007	0.168	0.168	568.299	0.062
Cement and Mortar Mixers	2030	6	15	1.075	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Cement and Mortar Mixers	2030	16	25	3.095	0.685	2.339	4.333	0.007	0.162	0.162	568.299	0.061

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Cement and Mortar Mixers	2035	6	15	1.075	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Cement and Mortar Mixers	2035	16	25	3.095	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Cement and Mortar Mixers	2040	6	15	1.075	0.661	3.47	4.142	0.008	0.161	0.161	568.299	0.059
Cement and Mortar Mixers	2040	16	25	3.095	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	1990	16	25	4.947	2.213	4.999	6.919	0.855	0.741	0.741	568.299	0.199
Concrete/Industrial Saws	1990	26	50	20.26	4.943	9.962	8.008	0.871	1.297	1.297	568.299	0.446
Concrete/Industrial Saws	1990	51	120	24.821	2.467	5.934	15.608	0.791	1.385	1.385	568.299	0.222
Concrete/Industrial Saws	1990	121	175	45.581	2.097	5.376	15.952	0.758	1.172	1.172	568.3	0.189
Concrete/Industrial Saws	2000	16	25	4.266	1.908	4.438	6.326	0.065	0.555	0.555	568.299	0.172
Concrete/Industrial Saws	2000	26	50	14.64	3.572	7.547	6.784	0.066	0.789	0.789	568.299	0.322
Concrete/Industrial Saws	2000	51	120	16.713	1.661	4.354	9.903	0.06	0.77	0.77	568.299	0.149
Concrete/Industrial Saws	2000	121	175	24.252	1.115	3.531	9.017	0.057	0.452	0.452	568.3	0.1
Concrete/Industrial Saws	2005	16	25	1.899	0.849	2.519	5.321	0.065	0.333	0.333	568.299	0.076
Concrete/Industrial Saws	2005	26	50	13.023	3.177	6.994	6.32	0.066	0.732	0.732	568.299	0.286
Concrete/Industrial Saws	2005	51	120	14.366	1.428	4.05	8.401	0.06	0.714	0.714	568.299	0.128
Concrete/Industrial Saws	2005	121	175	20.277	0.932	3.223	7.685	0.057	0.393	0.393	568.299	0.084
Concrete/Industrial Saws	2010	16	25	1.545	0.691	2.339	4.411	0.007	0.216	0.216	568.299	0.062
Concrete/Industrial Saws	2010	26	50	9.492	2.316	6.039	5.774	0.007	0.565	0.565	568.299	0.208
Concrete/Industrial Saws	2010	51	120	10.348	1.028	3.813	6.592	0.006	0.551	0.551	568.299	0.092
Concrete/Industrial Saws	2010	121	175	14.859	0.683	3.116	5.838	0.006	0.306	0.306	568.299	0.061
Concrete/Industrial Saws	2011	16	25	1.539	0.688	2.339	4.372	0.007	0.193	0.193	568.299	0.062
Concrete/Industrial Saws	2011	26	50	8.781	2.142	5.854	5.68	0.007	0.534	0.534	568.299	0.193
Concrete/Industrial Saws	2011	51	120	9.617	0.955	3.775	6.222	0.006	0.524	0.524	568.299	0.086
Concrete/Industrial Saws	2011	121	175	13.917	0.64	3.104	5.491	0.006	0.293	0.293	568.299	0.057
Concrete/Industrial Saws	2012	16	25	1.535	0.686	2.339	4.348	0.007	0.173	0.173	568.299	0.061
Concrete/Industrial Saws	2012	26	50	8.071	1.969	5.671	5.59	0.007	0.503	0.503	568.299	0.177
Concrete/Industrial Saws	2012	51	120	8.902	0.884	3.74	5.844	0.006	0.489	0.489	568.299	0.079
Concrete/Industrial Saws	2012	121	175	12.992	0.597	3.094	5.146	0.006	0.272	0.272	568.299	0.053
Concrete/Industrial Saws	2013	16	25	1.533	0.685	2.339	4.335	0.007	0.168	0.168	568.299	0.061
Concrete/Industrial Saws	2013	26	50	7.362	1.796	5.489	5.377	0.007	0.463	0.463	568.299	0.162
Concrete/Industrial Saws	2013	51	120	8.209	0.816	3.706	5.483	0.006	0.451	0.451	568.299	0.073
Concrete/Industrial Saws	2013	121	175	12.096	0.556	3.086	4.829	0.006	0.25	0.25	568.299	0.05
Concrete/Industrial Saws	2014	16	25	1.532	0.685	2.339	4.332	0.007	0.164	0.164	568.299	0.061
Concrete/Industrial Saws	2014	26	50	6.665	1.626	5.313	5.172	0.007	0.424	0.424	568.299	0.146
Concrete/Industrial Saws	2014	51	120	7.539	0.749	3.675	5.16	0.006	0.412	0.412	568.299	0.067
Concrete/Industrial Saws	2014	121	175	11.238	0.517	3.08	4.531	0.006	0.228	0.228	568.299	0.046
Concrete/Industrial Saws	2015	16	25	1.532	0.685	2.339	4.332	0.007	0.162	0.162	568.299	0.061
Concrete/Industrial Saws	2015	26	50	6.027	1.47	5.165	4.989	0.007	0.386	0.386	568.299	0.132
Concrete/Industrial Saws	2015	51	120	6.878	0.683	3.647	4.789	0.006	0.372	0.372	568.3	0.061
Concrete/Industrial Saws	2015	121	175	10.333	0.475	3.077	4.112	0.006	0.207	0.207	568.299	0.042
Concrete/Industrial Saws	2016	16	25	1.532	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2016	26	50	5.419	1.322	5.029	4.818	0.007	0.35	0.35	568.3	0.119
Concrete/Industrial Saws	2016	51	120	6.237	0.62	3.62	4.432	0.006	0.333	0.333	568.3	0.055
Concrete/Industrial Saws	2016	121	175	9.455	0.435	3.074	3.708	0.006	0.186	0.186	568.299	0.039
Concrete/Industrial Saws	2017	16	25	1.532	0.685	2.34	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2017	26	50	4.816	1.175	4.894	4.652	0.007	0.313	0.313	568.299	0.106
Concrete/Industrial Saws	2017	51	120	5.61	0.557	3.595	4.086	0.006	0.294	0.294	568.299	0.05
Concrete/Industrial Saws	2017	121	175	8.602	0.395	3.073	3.316	0.006	0.165	0.165	568.299	0.035
Concrete/Industrial Saws	2018	16	25	1.532	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2018	26	50	4.233	1.032	4.766	4.492	0.007	0.277	0.277	568.299	0.093
Concrete/Industrial Saws	2018	51	120	5.014	0.498	3.571	3.754	0.006	0.256	0.256	568.299	0.044
Concrete/Industrial Saws	2018	121	175	7.805	0.359	3.072	2.945	0.006	0.145	0.145	568.299	0.032
Concrete/Industrial Saws	2019	16	25	1.532	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2019	26	50	3.686	0.899	4.645	4.338	0.007	0.242	0.242	568.299	0.081
Concrete/Industrial Saws	2019	51	120	4.463	0.443	3.55	3.441	0.006	0.22	0.22	568.3	0.04
Concrete/Industrial Saws	2019	121	175	7.177	0.33	3.072	2.618	0.006	0.128	0.128	568.299	0.029
Concrete/Industrial Saws	2020	16	25	1.532	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2020	26	50	3.271	0.798	4.552	4.196	0.007	0.212	0.212	568.299	0.072
Concrete/Industrial Saws	2020	51	120	4.042	0.401	3.535	3.163	0.006	0.19	0.19	568.299	0.036
Concrete/Industrial Saws	2020	121	175	6.669	0.306	3.072	2.324	0.006	0.114	0.114	568.299	0.027
Concrete/Industrial Saws	2021	16	25	1.532	0.685	2.34	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2021	26	50	2.959	0.722	4.481	4.063	0.007	0.184	0.184	568.3	0.065
Concrete/Industrial Saws	2021	51	120	3.721	0.369	3.523	2.913	0.006	0.166	0.166	568.299	0.033
Concrete/Industrial Saws	2021	121	175	6.227	0.286	3.072	2.055	0.006	0.101	0.101	568.299	0.025
Concrete/Industrial Saws	2022	16	25	1.532	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2022	26	50	2.705	0.66	4.422	3.936	0.007	0.158	0.158	568.3	0.059
Concrete/Industrial Saws	2022	51	120	3.457	0.343	3.514	2.686	0.006	0.144	0.144	568.299	0.031
Concrete/Industrial Saws	2022	121	175	5.819	0.267	3.072	1.806	0.006	0.089	0.089	568.3	0.024
Concrete/Industrial Saws	2023	16	25	1.532	0.685	2.34	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2023	26	50	2.484	0.606	4.372	3.815	0.007	0.134	0.134	568.299	0.054
Concrete/Industrial Saws	2023	51	120	3.223	0.32	3.507	2.478	0.006	0.123	0.123	568.3	0.028

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Concrete/Industrial Saws	2023	121	175	5.453	0.25	3.072	1.599	0.006	0.077	0.077	568.299	0.022
Concrete/Industrial Saws	2024	16	25	1.532	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2024	26	50	2.303	0.561	4.33	3.701	0.007	0.115	0.115	568.3	0.05
Concrete/Industrial Saws	2024	51	120	3.023	0.3	3.5	2.315	0.006	0.106	0.106	568.299	0.027
Concrete/Industrial Saws	2024	121	175	5.117	0.235	3.072	1.418	0.006	0.067	0.067	568.299	0.021
Concrete/Industrial Saws	2025	16	25	1.532	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2025	26	50	2.153	0.525	4.297	3.592	0.007	0.099	0.099	568.299	0.047
Concrete/Industrial Saws	2025	51	120	2.849	0.283	3.495	2.176	0.006	0.089	0.089	568.3	0.025
Concrete/Industrial Saws	2025	121	175	4.8	0.22	3.073	1.249	0.006	0.056	0.056	568.3	0.019
Concrete/Industrial Saws	2030	16	25	1.532	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2030	26	50	1.679	0.409	4.199	3.222	0.007	0.041	0.041	568.299	0.036
Concrete/Industrial Saws	2030	51	120	2.226	0.221	3.48	1.667	0.006	0.036	0.036	568.299	0.019
Concrete/Industrial Saws	2030	121	175	3.551	0.163	3.074	0.59	0.006	0.025	0.025	568.299	0.014
Concrete/Industrial Saws	2035	16	25	1.532	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2035	26	50	1.54	0.375	4.174	3.107	0.007	0.021	0.021	568.3	0.033
Concrete/Industrial Saws	2035	51	120	2.015	0.2	3.476	1.491	0.006	0.018	0.018	568.299	0.018
Concrete/Industrial Saws	2035	121	175	3.121	0.143	3.075	0.374	0.006	0.014	0.014	568.299	0.012
Concrete/Industrial Saws	2040	16	25	1.532	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Concrete/Industrial Saws	2040	26	50	1.532	0.373	4.175	3.058	0.007	0.014	0.014	568.299	0.033
Concrete/Industrial Saws	2040	51	120	1.968	0.195	3.477	1.434	0.006	0.013	0.013	568.299	0.017
Concrete/Industrial Saws	2040	121	175	2.965	0.136	3.076	0.297	0.006	0.011	0.011	568.3	0.012
Cranes	1990	26	50	13.537	5.179	10.396	8.093	0.871	1.345	1.345	568.299	0.467
Cranes	1990	51	120	14.178	2.508	5.983	15.674	0.791	1.427	1.427	568.299	0.226
Cranes	1990	121	175	18.412	2.033	5.387	15.601	0.758	1.142	1.142	568.299	0.183
Cranes	1990	176	250	25.703	2.033	5.387	15.601	0.758	1.142	1.142	568.299	0.183
Cranes	1990	251	500	36.191	1.782	12.529	14.718	0.662	0.968	0.968	568.299	0.16
Cranes	1990	501	750	60.897	1.782	12.529	14.718	1.018	0.986	0.986	568.299	0.16
Cranes	1990	1001	9999	194.538	1.778	12.529	14.718	1.018	0.98	0.98	568.299	0.16
Cranes	2000	26	50	12.119	4.636	9.507	7.163	0.066	0.958	0.958	568.3	0.418
Cranes	2000	51	120	10.887	1.926	4.81	10.905	0.06	0.93	0.93	568.299	0.173
Cranes	2000	121	175	11.77	1.299	3.932	9.929	0.057	0.552	0.552	568.299	0.117
Cranes	2000	176	250	14.291	1.13	3.285	9.635	0.057	0.47	0.47	568.299	0.101
Cranes	2000	251	500	20.704	1.019	5.545	9.139	0.05	0.411	0.411	568.299	0.092
Cranes	2000	501	750	34.838	1.019	5.545	9.139	0.052	0.411	0.411	568.299	0.092
Cranes	2000	1001	9999	116.509	1.064	6.045	9.643	0.052	0.394	0.394	568.299	0.096
Cranes	2005	26	50	10.96	4.193	8.893	6.736	0.066	0.898	0.898	568.3	0.378
Cranes	2005	51	120	9.53	1.686	4.493	9.357	0.06	0.875	0.875	568.299	0.152
Cranes	2005	121	175	10.036	1.108	3.6	8.542	0.057	0.487	0.487	568.299	0.099
Cranes	2005	176	250	10.718	0.847	2.367	8.163	0.057	0.343	0.343	568.299	0.076
Cranes	2005	251	500	15.234	0.75	3.287	7.448	0.05	0.303	0.303	568.299	0.067
Cranes	2005	501	750	25.971	0.76	3.283	7.598	0.052	0.305	0.305	568.299	0.068
Cranes	2005	1001	9999	91.74	0.838	3.718	8.503	0.052	0.293	0.293	568.299	0.075
Cranes	2010	26	50	2.786882	2.342	7.37084	6.30432	0.005	0.665	0.612	575.653	0.168
Cranes	2010	51	120	1.626435	1.367	5.06328	11.2099	0.005	0.834	0.767	522.2692	0.152
Cranes	2010	121	175	0.999512	0.84	3.96843	9.06236	0.005	0.483	0.445	527.7153	0.154
Cranes	2010	176	250	0.826087	0.694	2.85637	8.39974	0.005	0.383	0.353	525.6477	0.153
Cranes	2010	251	500	0.629842	0.529	4.77692	7.05496	0.005	0.292	0.268	524.2494	0.153
Cranes	2010	501	750	0.3105	0.261	1.59747	4.49648	0.005	0.149	0.137	523.8164	0.152
Cranes	2010	1001	9999	0.387608	0.326	1.00751	6.39903	0.005	0.151	0.139	524.505	0.153
Cranes	2011	26	50	2.66715	2.241	7.21121	6.2271	0.005	0.641	0.59	574.2181	0.168
Cranes	2011	51	120	1.579127	1.327	5.02442	10.9169	0.005	0.81	0.745	521.0055	0.152
Cranes	2011	121	175	0.990868	0.833	3.9727	8.96629	0.005	0.48	0.441	526.3466	0.154
Cranes	2011	176	250	0.818849	0.688	2.82731	8.29972	0.005	0.379	0.349	524.3412	0.153
Cranes	2011	251	500	0.613791	0.516	4.61471	6.85019	0.005	0.283	0.26	523.002	0.153
Cranes	2011	501	750	0.317708	0.267	1.60931	4.47987	0.005	0.151	0.139	522.4977	0.152
Cranes	2011	1001	9999	0.392668	0.33	1.01544	6.442	0.005	0.153	0.141	523.1938	0.153
Cranes	2012	26	50	2.575229	2.164	7.10245	6.16881	0.005	0.622	0.573	572.7834	0.168
Cranes	2012	51	120	1.549708	1.302	4.99918	10.7338	0.005	0.795	0.732	519.357	0.152
Cranes	2012	121	175	0.992021	0.834	3.98552	8.9416	0.005	0.481	0.442	525.0081	0.154
Cranes	2012	176	250	0.82388	0.692	2.83394	8.30152	0.005	0.381	0.35	522.9802	0.153
Cranes	2012	251	500	0.612564	0.515	4.5553	6.7893	0.005	0.281	0.259	521.6408	0.153
Cranes	2012	501	750	0.324471	0.273	1.62066	4.45619	0.005	0.152	0.14	521.1061	0.152
Cranes	2012	1001	9999	0.397633	0.334	1.02322	6.48415	0.005	0.156	0.144	521.8825	0.153
Cranes	2013	26	50	2.54578	2.139	7.11869	6.10837	0.005	0.61	0.561	569.9097	0.168
Cranes	2013	51	120	1.506211	1.266	4.95084	10.4655	0.005	0.775	0.713	516.6909	0.152
Cranes	2013	121	175	0.982629	0.826	3.98019	8.83222	0.005	0.476	0.438	522.3332	0.154
Cranes	2013	176	250	0.813083	0.683	2.80099	8.15558	0.005	0.375	0.345	520.3446	0.153
Cranes	2013	251	500	0.59291	0.498	4.36265	6.51563	0.005	0.27	0.248	519.0961	0.153
Cranes	2013	501	750	0.327629	0.275	1.62896	4.36739	0.005	0.15	0.138	518.355	0.152
Cranes	2013	1001	9999	0.402502	0.338	1.03085	6.5255	0.005	0.159	0.146	519.26	0.153
Cranes	2014	26	50	2.516704	2.115	7.12566	6.09324	0.005	0.607	0.559	567.0058	0.168

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Cranes	2024	121	175	0.453764	0.381	3.3893	3.7029	0.005	0.196	0.18	474.6358	0.154
Cranes	2024	176	250	0.334159	0.281	1.50208	2.96596	0.005	0.123	0.114	472.9638	0.153
Cranes	2024	251	500	0.274315	0.231	1.93263	2.38291	0.005	0.096	0.089	472.0664	0.153
Cranes	2024	501	750	0.227031	0.191	1.28334	1.89979	0.005	0.08	0.073	470.3306	0.152
Cranes	2024	1001	9999	0.261551	0.22	1.03085	2.4105	0.005	0.064	0.059	472.0545	0.153
Cranes	2025	26	50	2.155227	1.811	7.07168	5.63562	0.005	0.543	0.499	517.8722	0.167
Cranes	2025	51	120	0.551396	0.463	3.83081	4.13532	0.005	0.26	0.24	469.5332	0.152
Cranes	2025	121	175	0.397698	0.334	3.33544	3.16038	0.005	0.166	0.153	474.7477	0.154
Cranes	2025	176	250	0.31508	0.265	1.4697	2.68128	0.005	0.114	0.105	472.9798	0.153
Cranes	2025	251	500	0.259914	0.218	1.83363	2.15424	0.005	0.088	0.081	471.9671	0.153
Cranes	2025	501	750	0.204336	0.172	1.27366	1.63763	0.005	0.068	0.062	470.2756	0.152
Cranes	2025	1001	9999	0.272209	0.229	1.03833	2.42219	0.005	0.065	0.06	472.0545	0.153
Cranes	2030	26	50	1.788	0.684	5.366	3.598	0.007	0.075	0.075	568.299	0.061
Cranes	2030	51	120	1.941	0.343	3.812	1.987	0.006	0.067	0.067	568.299	0.03
Cranes	2030	121	175	2.293	0.253	3.356	0.916	0.006	0.042	0.042	568.299	0.022
Cranes	2030	176	250	2.835	0.224	1.147	0.748	0.006	0.024	0.024	568.299	0.02
Cranes	2030	251	500	4.512	0.222	1.09	0.697	0.005	0.023	0.023	568.299	0.02
Cranes	2030	501	750	7.602	0.222	1.09	0.709	0.005	0.024	0.024	568.3	0.02
Cranes	2030	1001	9999	26.83	0.245	1.108	2.8	0.005	0.043	0.043	568.299	0.022
Cranes	2035	26	50	1.568	0.6	5.292	3.401	0.007	0.039	0.039	568.299	0.054
Cranes	2035	51	120	1.696	0.3	3.801	1.676	0.006	0.036	0.036	568.3	0.027
Cranes	2035	121	175	1.923	0.212	3.357	0.519	0.006	0.024	0.024	568.299	0.019
Cranes	2035	176	250	2.568	0.203	1.143	0.463	0.006	0.016	0.016	568.299	0.018
Cranes	2035	251	500	4.111	0.202	1.087	0.441	0.005	0.016	0.016	568.299	0.018
Cranes	2035	501	750	6.923	0.202	1.087	0.446	0.005	0.016	0.016	568.299	0.018
Cranes	2035	1001	9999	22.949	0.209	1.089	2.618	0.005	0.031	0.031	568.299	0.018
Cranes	2040	26	50	1.483	0.567	5.268	3.324	0.007	0.024	0.024	568.299	0.051
Cranes	2040	51	120	1.598	0.282	3.797	1.552	0.006	0.021	0.021	568.299	0.025
Cranes	2040	121	175	1.79	0.197	3.358	0.371	0.006	0.016	0.016	568.299	0.017
Cranes	2040	176	250	2.465	0.195	1.144	0.344	0.006	0.013	0.013	568.299	0.017
Cranes	2040	251	500	3.958	0.195	1.087	0.34	0.005	0.013	0.013	568.299	0.017
Cranes	2040	501	750	6.661	0.195	1.087	0.341	0.005	0.013	0.013	568.299	0.017
Cranes	2040	1001	9999	21.703	0.198	1.087	2.534	0.005	0.027	0.027	568.299	0.017
Crawler Tractors	1990	26	50	11.254	4.903	9.907	7.983	0.871	1.291	1.291	568.299	0.442
Crawler Tractors	1990	51	120	14.413	2.374	5.73	14.967	0.791	1.353	1.353	568.299	0.214
Crawler Tractors	1990	121	175	19.335	1.729	5.079	13.979	0.758	0.962	0.962	568.299	0.156
Crawler Tractors	1990	176	250	26.505	1.729	5.079	13.979	0.758	0.962	0.962	568.299	0.156
Crawler Tractors	1990	251	500	36.545	1.528	11.319	13.238	0.662	0.822	0.822	568.3	0.137
Crawler Tractors	1990	501	750	65.509	1.528	11.319	13.238	1.018	0.837	0.837	568.299	0.137
Crawler Tractors	1990	751	1000	92.189	1.518	11.319	13.238	1.018	0.826	0.826	568.299	0.137
Crawler Tractors	2000	26	50	10.858	4.73	9.675	7.197	0.066	0.973	0.973	568.299	0.426
Crawler Tractors	2000	51	120	11.94	1.966	4.886	11.097	0.06	0.949	0.949	568.299	0.177
Crawler Tractors	2000	121	175	14.976	1.339	4.018	10.157	0.057	0.57	0.57	568.3	0.12
Crawler Tractors	2000	176	250	17.901	1.168	3.367	9.863	0.057	0.486	0.486	568.299	0.105
Crawler Tractors	2000	251	500	25.11	1.049	5.849	9.341	0.05	0.424	0.424	568.299	0.094
Crawler Tractors	2000	501	750	45.011	1.049	5.849	9.341	0.052	0.424	0.424	568.299	0.094
Crawler Tractors	2000	751	1000	66.528	1.095	6.349	9.844	0.052	0.407	0.407	568.299	0.098
Crawler Tractors	2005	26	50	9.923	4.323	9.124	6.809	0.066	0.919	0.919	568.299	0.39
Crawler Tractors	2005	51	120	10.68	1.759	4.63	9.75	0.06	0.903	0.903	568.299	0.158
Crawler Tractors	2005	121	175	13.006	1.163	3.749	8.886	0.057	0.513	0.513	568.299	0.104
Crawler Tractors	2005	176	250	13.95	0.91	2.557	8.523	0.057	0.371	0.371	568.299	0.082
Crawler Tractors	2005	251	500	19.249	0.804	3.945	7.791	0.05	0.326	0.326	568.299	0.072
Crawler Tractors	2005	501	750	34.852	0.813	3.938	7.93	0.052	0.328	0.328	568.299	0.073
Crawler Tractors	2005	751	1000	54.011	0.889	4.359	8.804	0.052	0.319	0.319	568.3	0.08
Crawler Tractors	2010	26	50	3.193884	2.684	8.18872	6.54779	0.005	0.785	0.722	572.972	0.167
Crawler Tractors	2010	51	120	1.069208	0.898	4.10668	7.76656	0.005	0.628	0.578	530.0152	0.154
Crawler Tractors	2010	121	175	0.755513	0.635	3.40812	7.15822	0.005	0.378	0.348	524.4997	0.153
Crawler Tractors	2010	176	250	0.540569	0.454	1.89919	6.46768	0.005	0.249	0.229	526.1431	0.153
Crawler Tractors	2010	251	500	0.491926	0.413	3.0665	5.96739	0.005	0.227	0.209	528.681	0.154
Crawler Tractors	2010	501	750	0.418044	0.351	1.75694	5.31967	0.005	0.189	0.174	525.9395	0.153
Crawler Tractors	2010	751	1000	0.545095	0.458	2.04187	7.25547	0.005	0.21	0.193	527.6019	0.154
Crawler Tractors	2011	26	50	3.090465	2.597	8.06059	6.48764	0.005	0.762	0.701	571.2544	0.167
Crawler Tractors	2011	51	120	1.055307	0.887	4.11149	7.65924	0.005	0.624	0.574	528.5468	0.154
Crawler Tractors	2011	121	175	0.753531	0.633	3.422	7.0937	0.005	0.378	0.347	523.1105	0.153
Crawler Tractors	2011	176	250	0.541549	0.455	1.8844	6.42306	0.005	0.248	0.228	524.8932	0.153
Crawler Tractors	2011	251	500	0.494702	0.416	3.04503	5.91443	0.005	0.226	0.208	527.4003	0.154
Crawler Tractors	2011	501	750	0.416615	0.35	1.70832	5.23606	0.005	0.186	0.171	524.9577	0.153
Crawler Tractors	2011	751	1000	0.550612	0.463	2.05264	7.30105	0.005	0.212	0.195	526.3508	0.154
Crawler Tractors	2012	26	50	3.127964	2.628	8.16399	6.51312	0.005	0.77	0.708	569.8895	0.167
Crawler Tractors	2012	51	120	1.066067	0.896	4.14375	7.67928	0.005	0.633	0.582	527.2248	0.154
Crawler Tractors	2012	121	175	0.762695	0.641	3.4484	7.11308	0.005	0.382	0.351	521.7707	0.153

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Crawler Tractors	2022	251	500	0.30258	0.254	1.91628	2.74435	0.005	0.111	0.102	474.4115	0.153
Crawler Tractors	2022	501	750	0.235465	0.198	1.18638	2.12552	0.005	0.079	0.073	472.876	0.153
Crawler Tractors	2022	751	1000	0.424397	0.357	1.73227	5.92299	0.005	0.162	0.149	470.7007	0.152
Crawler Tractors	2023	26	50	2.228685	1.873	7.02687	5.32514	0.005	0.526	0.484	516.1587	0.167
Crawler Tractors	2023	51	120	0.663952	0.558	3.88936	4.76208	0.005	0.373	0.343	476.1575	0.154
Crawler Tractors	2023	121	175	0.41309	0.347	3.23526	3.33004	0.005	0.185	0.17	471.7805	0.153
Crawler Tractors	2023	176	250	0.328767	0.276	1.39549	3.18735	0.005	0.124	0.114	471.6244	0.153
Crawler Tractors	2023	251	500	0.286276	0.241	1.85216	2.47635	0.005	0.102	0.094	474.6128	0.153
Crawler Tractors	2023	501	750	0.218505	0.184	1.15892	1.86667	0.005	0.069	0.064	472.5297	0.153
Crawler Tractors	2023	751	1000	0.319268	0.268	1.6104	4.76968	0.005	0.118	0.109	473.6655	0.153
Crawler Tractors	2024	26	50	2.089827	1.756	6.68497	4.97522	0.005	0.466	0.429	515.4658	0.167
Crawler Tractors	2024	51	120	0.610839	0.513	3.85173	4.40892	0.005	0.335	0.309	476.2342	0.154
Crawler Tractors	2024	121	175	0.387606	0.326	3.22706	3.04107	0.005	0.17	0.157	471.8291	0.153
Crawler Tractors	2024	176	250	0.313897	0.264	1.36992	2.95319	0.005	0.115	0.105	471.8603	0.153
Crawler Tractors	2024	251	500	0.271114	0.228	1.77984	2.2441	0.005	0.093	0.085	474.025	0.153
Crawler Tractors	2024	501	750	0.215283	0.181	1.15921	1.76658	0.005	0.066	0.061	472.2827	0.153
Crawler Tractors	2024	751	1000	0.313081	0.263	1.58774	4.68945	0.005	0.115	0.106	474.6448	0.154
Crawler Tractors	2025	26	50	2.075042	1.744	6.68642	4.93567	0.005	0.456	0.42	516.1279	0.167
Crawler Tractors	2025	51	120	0.540303	0.454	3.78839	3.96126	0.005	0.285	0.262	476.1336	0.154
Crawler Tractors	2025	121	175	0.354345	0.298	3.20909	2.68768	0.005	0.15	0.138	471.5923	0.153
Crawler Tractors	2025	176	250	0.276616	0.232	1.30849	2.46158	0.005	0.096	0.088	471.6224	0.153
Crawler Tractors	2025	251	500	0.247477	0.208	1.71697	1.92007	0.005	0.081	0.074	474.0072	0.153
Crawler Tractors	2025	501	750	0.198724	0.167	1.12199	1.54452	0.005	0.057	0.052	472.4081	0.153
Crawler Tractors	2025	751	1000	0.308836	0.26	1.59298	4.59799	0.005	0.111	0.103	475.4901	0.154
Crawler Tractors	2030	26	50	1.912	0.833	5.605	3.808	0.007	0.116	0.116	568.299	0.075
Crawler Tractors	2030	51	120	2.461	0.405	3.871	2.341	0.006	0.105	0.105	568.299	0.036
Crawler Tractors	2030	121	175	3.315	0.296	3.397	1.266	0.006	0.065	0.065	568.299	0.026
Crawler Tractors	2030	176	250	4.019	0.262	1.207	1.104	0.006	0.04	0.04	568.299	0.023
Crawler Tractors	2030	251	500	6.146	0.257	1.2	1.016	0.005	0.038	0.038	568.299	0.023
Crawler Tractors	2030	501	750	11.033	0.257	1.2	1.033	0.005	0.038	0.038	568.299	0.023
Crawler Tractors	2030	751	1000	16.147	0.265	1.225	3.094	0.005	0.056	0.056	568.3	0.023
Crawler Tractors	2035	26	50	1.626	0.708	5.493	3.558	0.007	0.066	0.066	568.299	0.063
Crawler Tractors	2035	51	120	2.099	0.345	3.85	1.922	0.006	0.06	0.06	568.299	0.031
Crawler Tractors	2035	121	175	2.772	0.247	3.391	0.794	0.006	0.038	0.038	568.299	0.022
Crawler Tractors	2035	176	250	3.521	0.229	1.182	0.695	0.006	0.026	0.026	568.299	0.02
Crawler Tractors	2035	251	500	5.432	0.227	1.145	0.657	0.005	0.025	0.025	568.299	0.02
Crawler Tractors	2035	501	750	9.744	0.227	1.145	0.664	0.005	0.025	0.025	568.299	0.02
Crawler Tractors	2035	751	1000	14.073	0.231	1.159	2.792	0.005	0.041	0.041	568.299	0.02
Crawler Tractors	2040	26	50	1.499	0.653	5.443	3.42	0.007	0.042	0.042	568.299	0.058
Crawler Tractors	2040	51	120	1.924	0.316	3.839	1.709	0.006	0.039	0.039	568.299	0.028
Crawler Tractors	2040	121	175	2.48	0.221	3.388	0.539	0.006	0.025	0.025	568.299	0.02
Crawler Tractors	2040	176	250	3.247	0.211	1.167	0.491	0.006	0.018	0.018	568.299	0.019
Crawler Tractors	2040	251	500	5.035	0.21	1.113	0.47	0.005	0.018	0.018	568.299	0.018
Crawler Tractors	2040	501	750	9.03	0.21	1.113	0.475	0.005	0.018	0.018	568.299	0.019
Crawler Tractors	2040	751	1000	12.945	0.213	1.122	2.652	0.005	0.032	0.032	568.299	0.019
Crushing/Proc. Equipment	1990	26	50	11.643	4.43	9.044	7.809	0.871	1.194	1.194	568.299	0.399
Crushing/Proc. Equipment	1990	51	120	11.193	2.255	5.547	14.555	0.791	1.258	1.258	568.299	0.203
Crushing/Proc. Equipment	1990	121	175	15.383	1.54	4.913	13.086	0.758	0.834	0.834	568.299	0.138
Crushing/Proc. Equipment	1990	176	250	22.49	1.54	4.913	13.086	0.758	0.834	0.834	568.299	0.138
Crushing/Proc. Equipment	1990	251	500	30.672	1.374	10.176	12.492	0.662	0.724	0.724	568.299	0.124
Crushing/Proc. Equipment	1990	501	750	48.337	1.374	10.175	12.492	1.018	0.737	0.737	568.299	0.124
Crushing/Proc. Equipment	1990	1001	9999	106.942	1.369	10.175	12.492	1.018	0.731	0.731	568.299	0.123
Crushing/Proc. Equipment	2000	26	50	10.827	4.12	8.551	6.954	0.066	0.876	0.876	568.299	0.371
Crushing/Proc. Equipment	2000	51	120	8.945	1.802	4.594	10.363	0.06	0.857	0.857	568.299	0.162
Crushing/Proc. Equipment	2000	121	175	12.05	1.206	3.737	9.416	0.057	0.506	0.506	568.299	0.108
Crushing/Proc. Equipment	2000	176	250	14.723	1.008	2.963	9.058	0.057	0.414	0.414	568.299	0.09
Crushing/Proc. Equipment	2000	251	500	20.487	0.918	5.011	8.658	0.05	0.366	0.366	568.299	0.082
Crushing/Proc. Equipment	2000	501	750	30.946	0.88	4.658	8.459	0.052	0.348	0.348	568.299	0.079
Crushing/Proc. Equipment	2000	1001	9999	77.281	0.989	5.329	9.138	0.052	0.37	0.37	568.299	0.089
Crushing/Proc. Equipment	2005	26	50	9.624	3.662	7.904	6.477	0.066	0.812	0.812	568.3	0.33
Crushing/Proc. Equipment	2005	51	120	7.644	1.54	4.24	8.68	0.06	0.794	0.794	568.299	0.138
Crushing/Proc. Equipment	2005	121	175	10.064	1.007	3.372	7.941	0.057	0.438	0.438	568.299	0.09
Crushing/Proc. Equipment	2005	176	250	10.399	0.712	1.97	7.484	0.057	0.282	0.282	568.299	0.064
Crushing/Proc. Equipment	2005	251	500	14.029	0.628	2.549	6.846	0.05	0.252	0.252	568.299	0.056
Crushing/Proc. Equipment	2005	501	750	22.225	0.632	2.431	6.974	0.052	0.249	0.249	568.299	0.057
Crushing/Proc. Equipment	2005	1001	9999	60.257	0.771	3.042	8.054	0.052	0.268	0.268	568.299	0.069
Crushing/Proc. Equipment	2010	26	50	7.704	2.931	7.22	6.068	0.007	0.671	0.671	568.299	0.264
Crushing/Proc. Equipment	2010	51	120	5.971	1.203	4.071	7.096	0.006	0.656	0.656	568.299	0.108
Crushing/Proc. Equipment	2010	121	175	8.033	0.804	3.307	6.322	0.006	0.362	0.362	568.299	0.072
Crushing/Proc. Equipment	2010	176	250	7.61	0.521	1.446	5.918	0.006	0.195	0.195	568.299	0.047
Crushing/Proc. Equipment	2010	251	500	10.487	0.47	1.603	5.248	0.005	0.18	0.18	568.299	0.042

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Crushing/Proc. Equipment	2010	501	750	16.814	0.478	1.568	5.449	0.005	0.183	0.183	568.299	0.043
Crushing/Proc. Equipment	2010	1001	9999	46.933	0.601	2.091	6.987	0.005	0.209	0.209	568.299	0.054
Crushing/Proc. Equipment	2011	26	50	7.155	2.722	6.995	5.972	0.007	0.636	0.636	568.299	0.245
Crushing/Proc. Equipment	2011	51	120	5.588	1.125	4.03	6.704	0.006	0.625	0.625	568.3	0.101
Crushing/Proc. Equipment	2011	121	175	7.581	0.759	3.294	5.953	0.006	0.347	0.347	568.299	0.068
Crushing/Proc. Equipment	2011	176	250	7.059	0.483	1.356	5.498	0.006	0.175	0.175	568.299	0.043
Crushing/Proc. Equipment	2011	251	500	9.796	0.439	1.462	4.858	0.005	0.162	0.162	568.299	0.039
Crushing/Proc. Equipment	2011	501	750	15.681	0.446	1.435	5.054	0.005	0.165	0.165	568.299	0.04
Crushing/Proc. Equipment	2011	1001	9999	44.108	0.564	1.923	6.609	0.005	0.196	0.196	568.299	0.05
Crushing/Proc. Equipment	2012	26	50	6.538	2.488	6.733	5.867	0.007	0.596	0.596	568.299	0.224
Crushing/Proc. Equipment	2012	51	120	5.173	1.042	3.984	6.269	0.006	0.582	0.582	568.299	0.094
Crushing/Proc. Equipment	2012	121	175	7.084	0.709	3.28	5.553	0.006	0.321	0.321	568.299	0.064
Crushing/Proc. Equipment	2012	176	250	6.627	0.453	1.299	5.088	0.006	0.158	0.158	568.299	0.04
Crushing/Proc. Equipment	2012	251	500	9.273	0.415	1.362	4.48	0.005	0.147	0.147	568.3	0.037
Crushing/Proc. Equipment	2012	501	750	14.786	0.42	1.341	4.662	0.005	0.15	0.15	568.299	0.037
Crushing/Proc. Equipment	2012	1001	9999	41.105	0.526	1.755	6.197	0.005	0.182	0.182	568.299	0.047
Crushing/Proc. Equipment	2013	26	50	5.908	2.248	6.467	5.628	0.007	0.545	0.545	568.299	0.202
Crushing/Proc. Equipment	2013	51	120	4.758	0.958	3.94	5.845	0.006	0.532	0.532	568.299	0.086
Crushing/Proc. Equipment	2013	121	175	6.588	0.659	3.267	5.177	0.006	0.293	0.293	568.299	0.059
Crushing/Proc. Equipment	2013	176	250	6.27	0.429	1.26	4.695	0.006	0.144	0.144	568.299	0.038
Crushing/Proc. Equipment	2013	251	500	8.85	0.396	1.289	4.121	0.005	0.134	0.134	568.299	0.035
Crushing/Proc. Equipment	2013	501	750	14.055	0.399	1.273	4.285	0.005	0.136	0.136	568.299	0.036
Crushing/Proc. Equipment	2013	1001	9999	38.235	0.489	1.599	5.785	0.005	0.168	0.168	568.299	0.044
Crushing/Proc. Equipment	2014	26	50	5.288	2.012	6.212	5.399	0.007	0.494	0.494	568.299	0.181
Crushing/Proc. Equipment	2014	51	120	4.356	0.877	3.898	5.468	0.006	0.481	0.481	568.299	0.079
Crushing/Proc. Equipment	2014	121	175	6.112	0.612	3.256	4.823	0.006	0.265	0.265	568.299	0.055
Crushing/Proc. Equipment	2014	176	250	5.916	0.405	1.228	4.239	0.006	0.13	0.13	568.299	0.036
Crushing/Proc. Equipment	2014	251	500	8.415	0.377	1.23	3.702	0.005	0.121	0.121	568.299	0.034
Crushing/Proc. Equipment	2014	501	750	13.314	0.378	1.218	3.844	0.005	0.123	0.123	568.299	0.034
Crushing/Proc. Equipment	2014	1001	9999	35.652	0.456	1.46	5.391	0.005	0.155	0.155	568.299	0.041
Crushing/Proc. Equipment	2015	26	50	4.722	1.796	5.996	5.195	0.007	0.446	0.446	568.299	0.162
Crushing/Proc. Equipment	2015	51	120	3.959	0.797	3.859	5.04	0.006	0.43	0.43	568.299	0.071
Crushing/Proc. Equipment	2015	121	175	5.614	0.562	3.247	4.343	0.006	0.237	0.237	568.299	0.05
Crushing/Proc. Equipment	2015	176	250	5.585	0.382	1.201	3.801	0.006	0.117	0.117	568.299	0.034
Crushing/Proc. Equipment	2015	251	500	8	0.358	1.184	3.304	0.005	0.109	0.109	568.299	0.032
Crushing/Proc. Equipment	2015	501	750	12.614	0.358	1.176	3.422	0.005	0.111	0.111	568.299	0.032
Crushing/Proc. Equipment	2015	1001	9999	32.981	0.422	1.343	5.019	0.005	0.14	0.14	568.299	0.038
Crushing/Proc. Equipment	2016	26	50	4.186	1.593	5.801	5.006	0.007	0.399	0.399	568.299	0.143
Crushing/Proc. Equipment	2016	51	120	3.576	0.72	3.823	4.631	0.006	0.379	0.379	568.299	0.065
Crushing/Proc. Equipment	2016	121	175	5.132	0.513	3.241	3.883	0.006	0.21	0.21	568.299	0.046
Crushing/Proc. Equipment	2016	176	250	5.267	0.36	1.178	3.381	0.006	0.105	0.105	568.299	0.032
Crushing/Proc. Equipment	2016	251	500	7.601	0.34	1.146	2.928	0.005	0.098	0.098	568.299	0.03
Crushing/Proc. Equipment	2016	501	750	11.944	0.339	1.14	3.021	0.005	0.099	0.099	568.299	0.03
Crushing/Proc. Equipment	2016	1001	9999	31.036	0.397	1.274	4.7	0.005	0.127	0.127	568.299	0.035
Crushing/Proc. Equipment	2017	26	50	3.684	1.402	5.623	4.827	0.007	0.354	0.354	568.299	0.126
Crushing/Proc. Equipment	2017	51	120	3.216	0.647	3.791	4.244	0.006	0.33	0.33	568.299	0.058
Crushing/Proc. Equipment	2017	121	175	4.681	0.468	3.236	3.45	0.006	0.185	0.185	568.299	0.042
Crushing/Proc. Equipment	2017	176	250	4.974	0.34	1.16	2.987	0.006	0.094	0.094	568.299	0.03
Crushing/Proc. Equipment	2017	251	500	7.242	0.324	1.118	2.602	0.005	0.088	0.088	568.299	0.029
Crushing/Proc. Equipment	2017	501	750	11.359	0.323	1.114	2.664	0.005	0.088	0.088	568.299	0.029
Crushing/Proc. Equipment	2017	1001	9999	29.544	0.378	1.231	4.423	0.005	0.117	0.117	568.299	0.034
Crushing/Proc. Equipment	2018	26	50	3.219	1.225	5.461	4.657	0.007	0.31	0.31	568.299	0.11
Crushing/Proc. Equipment	2018	51	120	2.881	0.58	3.763	3.881	0.006	0.284	0.284	568.299	0.052
Crushing/Proc. Equipment	2018	121	175	4.267	0.427	3.234	3.049	0.006	0.161	0.161	568.299	0.038
Crushing/Proc. Equipment	2018	176	250	4.701	0.322	1.146	2.622	0.006	0.083	0.083	568.299	0.029
Crushing/Proc. Equipment	2018	251	500	6.912	0.309	1.099	2.312	0.005	0.079	0.079	568.299	0.027
Crushing/Proc. Equipment	2018	501	750	10.84	0.308	1.097	2.358	0.005	0.079	0.079	568.299	0.027
Crushing/Proc. Equipment	2018	1001	9999	28.23	0.361	1.198	4.168	0.005	0.107	0.107	568.299	0.032
Crushing/Proc. Equipment	2019	26	50	2.798	1.064	5.316	4.495	0.007	0.269	0.269	568.299	0.096
Crushing/Proc. Equipment	2019	51	120	2.577	0.519	3.739	3.544	0.006	0.241	0.241	568.299	0.046
Crushing/Proc. Equipment	2019	121	175	3.938	0.394	3.233	2.7	0.006	0.141	0.141	568.299	0.035
Crushing/Proc. Equipment	2019	176	250	4.451	0.304	1.134	2.3	0.006	0.074	0.074	568.299	0.027
Crushing/Proc. Equipment	2019	251	500	6.592	0.295	1.087	2.046	0.005	0.071	0.071	568.299	0.026
Crushing/Proc. Equipment	2019	501	750	10.352	0.294	1.085	2.085	0.005	0.071	0.071	568.299	0.026
Crushing/Proc. Equipment	2019	1001	9999	26.978	0.345	1.173	3.927	0.005	0.098	0.098	568.299	0.031
Crushing/Proc. Equipment	2020	26	50	2.489	0.947	5.211	4.347	0.007	0.233	0.233	568.299	0.085
Crushing/Proc. Equipment	2020	51	120	2.348	0.473	3.722	3.249	0.006	0.206	0.206	568.299	0.042
Crushing/Proc. Equipment	2020	121	175	3.673	0.367	3.234	2.392	0.006	0.124	0.124	568.299	0.033
Crushing/Proc. Equipment	2020	176	250	4.222	0.289	1.125	2.014	0.006	0.065	0.065	568.299	0.026
Crushing/Proc. Equipment	2020	251	500	6.283	0.281	1.078	1.799	0.005	0.063	0.063	568.299	0.025
Crushing/Proc. Equipment	2020	501	750	9.884	0.281	1.077	1.835	0.005	0.063	0.063	568.299	0.025

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Crushing/Proc. Equipment	2020	1001	9999	25.755	0.329	1.153	3.699	0.005	0.089	0.089	568.299	0.029
Crushing/Proc. Equipment	2021	26	50	2.265	0.862	5.136	4.211	0.007	0.201	0.201	568.299	0.077
Crushing/Proc. Equipment	2021	51	120	2.176	0.438	3.711	2.989	0.006	0.178	0.178	568.299	0.039
Crushing/Proc. Equipment	2021	121	175	3.442	0.344	3.235	2.114	0.006	0.109	0.109	568.299	0.031
Crushing/Proc. Equipment	2021	176	250	4.009	0.274	1.119	1.756	0.006	0.057	0.057	568.299	0.024
Crushing/Proc. Equipment	2021	251	500	5.988	0.268	1.072	1.574	0.005	0.055	0.055	568.3	0.024
Crushing/Proc. Equipment	2021	501	750	9.434	0.268	1.072	1.606	0.005	0.055	0.055	568.299	0.024
Crushing/Proc. Equipment	2021	1001	9999	24.586	0.314	1.136	3.487	0.005	0.08	0.08	568.299	0.028
Crushing/Proc. Equipment	2022	26	50	2.09	0.795	5.081	4.083	0.007	0.172	0.172	568.299	0.071
Crushing/Proc. Equipment	2022	51	120	2.036	0.41	3.704	2.758	0.006	0.154	0.154	568.299	0.037
Crushing/Proc. Equipment	2022	121	175	3.231	0.323	3.237	1.861	0.006	0.095	0.095	568.299	0.029
Crushing/Proc. Equipment	2022	176	250	3.808	0.26	1.114	1.521	0.006	0.05	0.05	568.299	0.023
Crushing/Proc. Equipment	2022	251	500	5.706	0.255	1.067	1.389	0.005	0.048	0.048	568.299	0.023
Crushing/Proc. Equipment	2022	501	750	9.002	0.256	1.067	1.416	0.005	0.048	0.048	568.299	0.023
Crushing/Proc. Equipment	2022	1001	9999	23.492	0.3	1.121	3.31	0.005	0.073	0.073	568.299	0.027
Crushing/Proc. Equipment	2023	26	50	1.944	0.739	5.039	3.962	0.007	0.146	0.146	568.299	0.066
Crushing/Proc. Equipment	2023	51	120	1.914	0.385	3.7	2.552	0.006	0.132	0.132	568.299	0.034
Crushing/Proc. Equipment	2023	121	175	3.042	0.304	3.24	1.654	0.006	0.083	0.083	568.299	0.027
Crushing/Proc. Equipment	2023	176	250	3.623	0.248	1.111	1.33	0.006	0.043	0.043	568.299	0.022
Crushing/Proc. Equipment	2023	251	500	5.444	0.244	1.064	1.227	0.005	0.042	0.042	568.299	0.022
Crushing/Proc. Equipment	2023	501	750	8.598	0.244	1.065	1.251	0.005	0.042	0.042	568.3	0.022
Crushing/Proc. Equipment	2023	1001	9999	22.463	0.287	1.107	3.16	0.005	0.066	0.066	568.299	0.025
Crushing/Proc. Equipment	2024	26	50	1.825	0.694	5.008	3.85	0.007	0.125	0.125	568.299	0.062
Crushing/Proc. Equipment	2024	51	120	1.81	0.364	3.697	2.389	0.006	0.112	0.112	568.299	0.032
Crushing/Proc. Equipment	2024	121	175	2.866	0.287	3.243	1.472	0.006	0.071	0.071	568.299	0.025
Crushing/Proc. Equipment	2024	176	250	3.448	0.236	1.109	1.165	0.006	0.036	0.036	568.299	0.021
Crushing/Proc. Equipment	2024	251	500	5.193	0.232	1.062	1.077	0.005	0.035	0.035	568.299	0.021
Crushing/Proc. Equipment	2024	501	750	8.207	0.233	1.063	1.098	0.005	0.036	0.036	568.299	0.021
Crushing/Proc. Equipment	2024	1001	9999	21.454	0.274	1.096	3.029	0.005	0.059	0.059	568.299	0.024
Crushing/Proc. Equipment	2025	26	50	1.724	0.656	4.982	3.742	0.007	0.107	0.107	568.299	0.059
Crushing/Proc. Equipment	2025	51	120	1.716	0.345	3.694	2.248	0.006	0.095	0.095	568.299	0.031
Crushing/Proc. Equipment	2025	121	175	2.696	0.27	3.246	1.301	0.006	0.06	0.06	568.299	0.024
Crushing/Proc. Equipment	2025	176	250	3.279	0.224	1.108	1.012	0.006	0.031	0.031	568.299	0.02
Crushing/Proc. Equipment	2025	251	500	4.95	0.221	1.061	0.937	0.005	0.03	0.03	568.299	0.02
Crushing/Proc. Equipment	2025	501	750	7.826	0.222	1.061	0.955	0.005	0.03	0.03	568.299	0.02
Crushing/Proc. Equipment	2025	1001	9999	20.429	0.261	1.087	2.91	0.005	0.053	0.053	568.299	0.023
Crushing/Proc. Equipment	2030	26	50	1.381	0.525	4.857	3.351	0.007	0.043	0.043	568.299	0.047
Crushing/Proc. Equipment	2030	51	120	1.35	0.272	3.673	1.708	0.006	0.038	0.038	568.299	0.024
Crushing/Proc. Equipment	2030	121	175	1.976	0.197	3.244	0.6	0.006	0.025	0.025	568.299	0.017
Crushing/Proc. Equipment	2030	176	250	2.701	0.185	1.105	0.502	0.006	0.017	0.017	568.299	0.016
Crushing/Proc. Equipment	2030	251	500	4.113	0.184	1.058	0.476	0.005	0.017	0.017	568.299	0.016
Crushing/Proc. Equipment	2030	501	750	6.473	0.184	1.058	0.478	0.005	0.017	0.017	568.299	0.016
Crushing/Proc. Equipment	2030	1001	9999	15.345	0.196	1.059	2.59	0.005	0.032	0.032	568.299	0.017
Crushing/Proc. Equipment	2035	26	50	1.282	0.487	4.819	3.237	0.007	0.023	0.023	568.299	0.044
Crushing/Proc. Equipment	2035	51	120	1.236	0.249	3.665	1.531	0.006	0.02	0.02	568.299	0.022
Crushing/Proc. Equipment	2035	121	175	1.76	0.176	3.242	0.382	0.006	0.015	0.015	568.299	0.015
Crushing/Proc. Equipment	2035	176	250	2.521	0.172	1.104	0.342	0.006	0.012	0.012	568.3	0.015
Crushing/Proc. Equipment	2035	251	500	3.852	0.172	1.058	0.338	0.005	0.012	0.012	568.299	0.015
Crushing/Proc. Equipment	2035	501	750	6.064	0.172	1.058	0.338	0.005	0.012	0.012	568.299	0.015
Crushing/Proc. Equipment	2035	1001	9999	13.865	0.177	1.058	2.482	0.005	0.026	0.026	568.299	0.016
Crushing/Proc. Equipment	2040	26	50	1.284	0.488	4.833	3.194	0.007	0.017	0.017	568.299	0.044
Crushing/Proc. Equipment	2040	51	120	1.219	0.245	3.67	1.477	0.006	0.015	0.015	568.299	0.022
Crushing/Proc. Equipment	2040	121	175	1.698	0.17	3.246	0.306	0.006	0.012	0.012	568.299	0.015
Crushing/Proc. Equipment	2040	176	250	2.464	0.168	1.106	0.292	0.006	0.011	0.011	568.299	0.015
Crushing/Proc. Equipment	2040	251	500	3.766	0.168	1.059	0.292	0.005	0.011	0.011	568.299	0.015
Crushing/Proc. Equipment	2040	501	750	5.941	0.169	1.059	0.292	0.005	0.011	0.011	568.299	0.015
Crushing/Proc. Equipment	2040	1001	9999	13.333	0.17	1.059	2.457	0.005	0.024	0.024	568.299	0.015
Dumpers/Tenders	1990	16	25	2.645	2.213	4.999	6.919	0.855	0.741	0.741	568.299	0.199
Dumpers/Tenders	2000	16	25	2.444	2.045	4.69	6.397	0.065	0.571	0.571	568.299	0.184
Dumpers/Tenders	2005	16	25	1.554	1.3	3.337	5.74	0.065	0.426	0.426	568.299	0.117
Dumpers/Tenders	2010	16	25	0.963	0.806	2.507	4.804	0.007	0.271	0.271	568.299	0.072
Dumpers/Tenders	2011	16	25	0.921	0.771	2.456	4.686	0.007	0.251	0.251	568.299	0.069
Dumpers/Tenders	2012	16	25	0.887	0.742	2.416	4.576	0.007	0.232	0.232	568.299	0.066
Dumpers/Tenders	2013	16	25	0.86	0.719	2.385	4.477	0.007	0.216	0.216	568.3	0.064
Dumpers/Tenders	2014	16	25	0.842	0.705	2.364	4.433	0.007	0.2	0.2	568.3	0.063
Dumpers/Tenders	2015	16	25	0.831	0.696	2.35	4.402	0.007	0.187	0.187	568.299	0.062
Dumpers/Tenders	2016	16	25	0.825	0.69	2.342	4.378	0.007	0.175	0.175	568.299	0.062
Dumpers/Tenders	2017	16	25	0.821	0.687	2.34	4.362	0.007	0.171	0.171	568.299	0.062
Dumpers/Tenders	2018	16	25	0.82	0.686	2.339	4.35	0.007	0.169	0.169	568.299	0.061
Dumpers/Tenders	2019	16	25	0.82	0.686	2.339	4.341	0.007	0.167	0.167	568.299	0.061
Dumpers/Tenders	2020	16	25	0.819	0.685	2.339	4.336	0.007	0.165	0.165	568.299	0.061

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Dumpers/Tenders	2021	16	25	0.819	0.685	2.339	4.333	0.007	0.163	0.163	568.299	0.061
Dumpers/Tenders	2022	16	25	0.819	0.685	2.339	4.332	0.007	0.162	0.162	568.299	0.061
Dumpers/Tenders	2023	16	25	0.819	0.685	2.339	4.332	0.007	0.162	0.162	568.299	0.061
Dumpers/Tenders	2024	16	25	0.819	0.685	2.34	4.332	0.007	0.161	0.161	568.299	0.061
Dumpers/Tenders	2025	16	25	0.819	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Dumpers/Tenders	2030	16	25	0.819	0.685	2.34	4.332	0.007	0.161	0.161	568.299	0.061
Dumpers/Tenders	2035	16	25	0.819	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Dumpers/Tenders	2040	16	25	0.819	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Excavators	1990	16	25	5.933	2.213	4.999	6.919	0.855	0.741	0.741	568.299	0.199
Excavators	1990	26	50	21.032	5.155	10.359	8.08	0.871	1.341	1.341	568.299	0.465
Excavators	1990	51	120	29.647	2.469	5.901	15.421	0.791	1.413	1.413	568.299	0.222
Excavators	1990	121	175	35.634	1.947	5.271	15.075	0.758	1.096	1.096	568.299	0.175
Excavators	1990	176	250	50.388	1.947	5.271	15.075	0.758	1.096	1.096	568.299	0.175
Excavators	1990	251	500	65.206	1.71	12.155	14.225	0.662	0.93	0.93	568.3	0.154
Excavators	1990	501	750	108.079	1.71	12.155	14.225	1.018	0.947	0.947	568.299	0.154
Excavators	2000	16	25	4.937	1.841	4.315	6.281	0.065	0.543	0.543	568.299	0.166
Excavators	2000	26	50	18.836	4.616	9.494	7.102	0.066	0.958	0.958	568.299	0.416
Excavators	2000	51	120	21.925	1.826	4.602	10.156	0.06	0.913	0.913	568.299	0.164
Excavators	2000	121	175	22.624	1.236	3.672	9.345	0.057	0.525	0.525	568.299	0.111
Excavators	2000	176	250	25.927	1.001	2.794	8.952	0.057	0.409	0.409	568.299	0.09
Excavators	2000	251	500	34.719	0.91	3.974	8.491	0.05	0.362	0.362	568.299	0.082
Excavators	2000	501	750	57.546	0.91	3.974	8.491	0.052	0.362	0.362	568.299	0.082
Excavators	2005	16	25	2.091	0.779	2.397	5.219	0.065	0.319	0.319	568.299	0.07
Excavators	2005	26	50	16.217	3.974	8.597	6.562	0.066	0.871	0.871	568.299	0.358
Excavators	2005	51	120	19.001	1.582	4.354	8.632	0.06	0.853	0.853	568.299	0.142
Excavators	2005	121	175	18.9	1.032	3.452	7.905	0.057	0.461	0.461	568.299	0.093
Excavators	2005	176	250	18.379	0.71	1.892	7.456	0.057	0.276	0.276	568.299	0.064
Excavators	2005	251	500	24.005	0.629	2.194	6.685	0.05	0.248	0.248	568.299	0.056
Excavators	2005	501	750	40.443	0.64	2.192	6.888	0.052	0.251	0.251	568.299	0.057
Excavators	2010	16	25	0.993664	0.835	4.56926	5.19123	0.005	0.413	0.38	584.0737	0.17
Excavators	2010	26	50	0.993664	0.835	4.56926	5.19123	0.005	0.413	0.38	584.0737	0.17
Excavators	2010	51	120	0.73275	0.616	3.69337	6.10169	0.005	0.469	0.432	518.9941	0.151
Excavators	2010	121	175	0.572846	0.481	3.1674	5.82964	0.005	0.299	0.275	525.0484	0.153
Excavators	2010	176	250	0.422004	0.355	1.45526	5.78636	0.005	0.182	0.167	525.2427	0.153
Excavators	2010	251	500	0.315965	0.265	1.44794	4.38582	0.005	0.143	0.132	522.2909	0.152
Excavators	2010	501	750	0.327987	0.276	1.53784	4.52996	0.005	0.149	0.137	520.4269	0.151
Excavators	2011	16	25	0.999474	0.84	4.67202	5.21824	0.005	0.413	0.38	582.8586	0.17
Excavators	2011	26	50	0.999474	0.84	4.67202	5.21824	0.005	0.413	0.38	582.8586	0.17
Excavators	2011	51	120	0.675188	0.567	3.65807	5.70006	0.005	0.436	0.401	517.4139	0.151
Excavators	2011	121	175	0.533269	0.448	3.15702	5.44943	0.005	0.278	0.255	523.5178	0.153
Excavators	2011	176	250	0.400356	0.336	1.41809	5.41822	0.005	0.171	0.157	523.6886	0.153
Excavators	2011	251	500	0.303301	0.255	1.41288	4.1131	0.005	0.133	0.123	521.2972	0.152
Excavators	2011	501	750	0.326107	0.274	1.47034	4.42127	0.005	0.146	0.134	519.1221	0.151
Excavators	2012	16	25	1.018057	0.855	4.79179	5.19511	0.005	0.412	0.379	581.4648	0.17
Excavators	2012	26	50	1.018057	0.855	4.79179	5.19511	0.005	0.412	0.379	581.4648	0.17
Excavators	2012	51	120	0.67458	0.567	3.68099	5.63138	0.005	0.434	0.399	516.083	0.151
Excavators	2012	121	175	0.534632	0.449	3.17839	5.38897	0.005	0.275	0.253	522.0959	0.153
Excavators	2012	176	250	0.402641	0.338	1.42562	5.32577	0.005	0.169	0.155	522.4958	0.153
Excavators	2012	251	500	0.308496	0.259	1.4255	4.05714	0.005	0.131	0.121	520.034	0.152
Excavators	2012	501	750	0.334165	0.281	1.47962	4.3898	0.005	0.145	0.134	517.8167	0.151
Excavators	2013	16	25	0.995402	0.836	4.80774	5.0526	0.005	0.393	0.362	578.236	0.17
Excavators	2013	26	50	0.995402	0.836	4.80774	5.0526	0.005	0.393	0.362	578.236	0.17
Excavators	2013	51	120	0.639011	0.537	3.66866	5.3703	0.005	0.404	0.372	513.7321	0.151
Excavators	2013	121	175	0.503929	0.423	3.16966	5.08991	0.005	0.253	0.233	519.496	0.153
Excavators	2013	176	250	0.383779	0.322	1.40068	4.93756	0.005	0.157	0.145	519.8753	0.153
Excavators	2013	251	500	0.295491	0.248	1.38754	3.73509	0.005	0.121	0.111	517.7809	0.152
Excavators	2013	501	750	0.301827	0.254	1.36166	3.92892	0.005	0.126	0.116	514.1872	0.151
Excavators	2014	16	25	0.981904	0.825	4.84434	4.96504	0.005	0.38	0.35	575.2674	0.17
Excavators	2014	26	50	0.981904	0.825	4.84434	4.96504	0.005	0.38	0.35	575.2674	0.17
Excavators	2014	51	120	0.610505	0.513	3.66313	5.13137	0.005	0.382	0.352	511.3057	0.151
Excavators	2014	121	175	0.464169	0.39	3.15438	4.65701	0.005	0.229	0.211	516.9066	0.153
Excavators	2014	176	250	0.350137	0.294	1.34557	4.37384	0.005	0.139	0.128	517.3234	0.153
Excavators	2014	251	500	0.276896	0.233	1.32721	3.35284	0.005	0.108	0.099	515.2151	0.152
Excavators	2014	501	750	0.284069	0.239	1.34745	3.54089	0.005	0.114	0.105	511.9453	0.151
Excavators	2015	16	25	0.991068	0.833	4.92488	4.91817	0.005	0.375	0.345	569.5116	0.17
Excavators	2015	26	50	0.991068	0.833	4.92488	4.91817	0.005	0.375	0.345	569.5116	0.17
Excavators	2015	51	120	0.60346	0.507	3.67943	5.01907	0.005	0.373	0.344	506.1727	0.151
Excavators	2015	121	175	0.456597	0.384	3.16762	4.4807	0.005	0.221	0.203	511.6869	0.153
Excavators	2015	176	250	0.343545	0.289	1.33148	4.18222	0.005	0.133	0.122	512.0555	0.153
Excavators	2015	251	500	0.276143	0.232	1.31662	3.21395	0.005	0.104	0.096	509.8675	0.152
Excavators	2015	501	750	0.28808	0.242	1.35372	3.47287	0.005	0.113	0.104	506.6816	0.151

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Excavators	2016	16	25	0.970016	0.815	4.94198	4.82432	0.005	0.359	0.33	563.8026	0.17
Excavators	2016	26	50	0.970016	0.815	4.94198	4.82432	0.005	0.359	0.33	563.8026	0.17
Excavators	2016	51	120	0.566011	0.476	3.66066	4.70806	0.005	0.344	0.317	500.9659	0.151
Excavators	2016	121	175	0.425494	0.358	3.15771	4.08095	0.005	0.201	0.185	506.495	0.153
Excavators	2016	176	250	0.312033	0.262	1.27749	3.66736	0.005	0.116	0.107	506.544	0.153
Excavators	2016	251	500	0.253752	0.213	1.23344	2.81451	0.005	0.091	0.083	504.2899	0.152
Excavators	2016	501	750	0.287698	0.242	1.34881	3.35762	0.005	0.11	0.101	501.6596	0.151
Excavators	2017	16	25	0.91741	0.771	4.88904	4.67818	0.005	0.332	0.305	554.9101	0.17
Excavators	2017	26	50	0.91741	0.771	4.88904	4.67818	0.005	0.332	0.305	554.9101	0.17
Excavators	2017	51	120	0.523542	0.44	3.63939	4.37952	0.005	0.31	0.285	493.409	0.151
Excavators	2017	121	175	0.397029	0.334	3.15091	3.69967	0.005	0.182	0.167	498.5222	0.153
Excavators	2017	176	250	0.293543	0.247	1.24911	3.31872	0.005	0.105	0.097	498.4364	0.153
Excavators	2017	251	500	0.237788	0.2	1.19852	2.50715	0.005	0.081	0.075	496.8098	0.152
Excavators	2017	501	750	0.249769	0.21	1.22803	2.71934	0.005	0.09	0.083	494.5496	0.152
Excavators	2018	16	25	0.818091	0.687	4.70022	4.39518	0.005	0.284	0.261	545.3468	0.17
Excavators	2018	26	50	0.818091	0.687	4.70022	4.39518	0.005	0.284	0.261	545.3468	0.17
Excavators	2018	51	120	0.438055	0.368	3.56214	3.76366	0.005	0.25	0.23	486.056	0.151
Excavators	2018	121	175	0.324959	0.273	3.09338	2.92361	0.005	0.142	0.13	490.6725	0.153
Excavators	2018	176	250	0.240329	0.202	1.15209	2.59377	0.005	0.079	0.073	490.2569	0.153
Excavators	2018	251	500	0.207823	0.175	1.13951	2.05045	0.005	0.066	0.061	489.1025	0.152
Excavators	2018	501	750	0.22476	0.189	1.22359	2.26567	0.005	0.076	0.07	487.6528	0.152
Excavators	2019	16	25	0.75855	0.637	4.59698	4.19867	0.005	0.25	0.23	536.9132	0.17
Excavators	2019	26	50	0.75855	0.637	4.59698	4.19867	0.005	0.25	0.23	536.9132	0.17
Excavators	2019	51	120	0.386598	0.325	3.52421	3.36874	0.005	0.211	0.194	478.2452	0.151
Excavators	2019	121	175	0.293021	0.246	3.08163	2.53264	0.005	0.122	0.112	482.6838	0.153
Excavators	2019	176	250	0.220917	0.186	1.12671	2.24187	0.005	0.068	0.063	482.2503	0.153
Excavators	2019	251	500	0.192898	0.162	1.1135	1.77986	0.005	0.058	0.053	481.2361	0.152
Excavators	2019	501	750	0.209677	0.176	1.17289	1.98661	0.005	0.067	0.062	479.2876	0.152
Excavators	2020	16	25	0.705964	0.593	4.50032	4.03131	0.005	0.222	0.204	525.3675	0.17
Excavators	2020	26	50	0.705964	0.593	4.50032	4.03131	0.005	0.222	0.204	525.3675	0.17
Excavators	2020	51	120	0.356064	0.299	3.50495	3.08964	0.005	0.185	0.17	468.0546	0.151
Excavators	2020	121	175	0.275327	0.231	3.08597	2.27838	0.005	0.11	0.102	472.2891	0.153
Excavators	2020	176	250	0.211076	0.177	1.11778	2.02738	0.005	0.061	0.056	471.8828	0.153
Excavators	2020	251	500	0.182542	0.153	1.1016	1.57199	0.005	0.052	0.048	470.2956	0.152
Excavators	2020	501	750	0.202011	0.17	1.14543	1.79718	0.005	0.061	0.056	468.8706	0.152
Excavators	2021	16	25	0.669315	0.562	4.46094	3.91866	0.005	0.202	0.186	525.3774	0.17
Excavators	2021	26	50	0.669315	0.562	4.46094	3.91866	0.005	0.202	0.186	525.3774	0.17
Excavators	2021	51	120	0.327314	0.275	3.49196	2.84891	0.005	0.161	0.148	467.7906	0.151
Excavators	2021	121	175	0.257574	0.216	3.08975	2.03357	0.005	0.099	0.091	472.3586	0.153
Excavators	2021	176	250	0.193738	0.163	1.10324	1.70572	0.005	0.052	0.048	471.7931	0.153
Excavators	2021	251	500	0.170127	0.143	1.08777	1.33174	0.005	0.045	0.041	469.6156	0.152
Excavators	2021	501	750	0.196683	0.165	1.14978	1.61856	0.005	0.056	0.052	469.547	0.152
Excavators	2022	16	25	0.568779	0.478	4.27341	3.70039	0.005	0.16	0.147	525.4468	0.17
Excavators	2022	26	50	0.568779	0.478	4.27341	3.70039	0.005	0.16	0.147	525.4468	0.17
Excavators	2022	51	120	0.299503	0.252	3.47329	2.60649	0.005	0.138	0.127	467.6256	0.151
Excavators	2022	121	175	0.22749	0.191	3.074	1.6781	0.005	0.081	0.075	472.1917	0.153
Excavators	2022	176	250	0.176606	0.148	1.09157	1.38616	0.005	0.044	0.04	472.0412	0.153
Excavators	2022	251	500	0.152263	0.128	1.06126	1.03988	0.005	0.035	0.032	469.7105	0.152
Excavators	2022	501	750	0.178436	0.15	1.144	1.2865	0.005	0.047	0.043	469.2892	0.152
Excavators	2023	16	25	0.535724	0.45	4.23393	3.59356	0.005	0.139	0.128	525.4286	0.17
Excavators	2023	26	50	0.535724	0.45	4.23393	3.59356	0.005	0.139	0.128	525.4286	0.17
Excavators	2023	51	120	0.273823	0.23	3.45367	2.38066	0.005	0.116	0.107	467.1573	0.151
Excavators	2023	121	175	0.212046	0.178	3.07648	1.46245	0.005	0.072	0.066	472.277	0.153
Excavators	2023	176	250	0.168964	0.142	1.08965	1.20943	0.005	0.039	0.036	472.2131	0.153
Excavators	2023	251	500	0.145171	0.122	1.05093	0.89311	0.005	0.03	0.028	469.8892	0.152
Excavators	2023	501	750	0.171247	0.144	1.13199	1.15865	0.005	0.043	0.04	468.6826	0.152
Excavators	2024	16	25	0.495634	0.416	4.20529	3.50816	0.005	0.12	0.11	525.979	0.17
Excavators	2024	26	50	0.495634	0.416	4.20529	3.50816	0.005	0.12	0.11	525.979	0.17
Excavators	2024	51	120	0.258544	0.217	3.45322	2.24781	0.005	0.102	0.094	467.3843	0.151
Excavators	2024	121	175	0.202572	0.17	3.08336	1.32479	0.005	0.065	0.06	472.4279	0.153
Excavators	2024	176	250	0.165297	0.139	1.0899	1.10808	0.005	0.036	0.033	472.4415	0.153
Excavators	2024	251	500	0.144133	0.121	1.05369	0.83129	0.005	0.029	0.026	469.7108	0.152
Excavators	2024	501	750	0.169017	0.142	1.13421	1.10467	0.005	0.041	0.037	468.652	0.152
Excavators	2025	16	25	0.47994	0.403	4.21941	3.45298	0.005	0.107	0.099	525.7772	0.17
Excavators	2025	26	50	0.47994	0.403	4.21941	3.45298	0.005	0.107	0.099	525.7772	0.17
Excavators	2025	51	120	0.23878	0.201	3.43876	2.08246	0.005	0.085	0.078	466.7376	0.151
Excavators	2025	121	175	0.187811	0.158	3.078	1.15367	0.005	0.057	0.052	472.4964	0.153
Excavators	2025	176	250	0.155588	0.131	1.08136	0.96211	0.005	0.032	0.029	472.5599	0.153
Excavators	2025	251	500	0.137039	0.115	1.05072	0.72641	0.005	0.026	0.024	470.2915	0.152
Excavators	2025	501	750	0.165305	0.139	1.13484	1.02571	0.005	0.038	0.035	468.5582	0.152
Excavators	2030	16	25	1.838	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Excavators	2030	26	50	2.458	0.602	5.309	3.393	0.007	0.038	0.038	568.299	0.054
Excavators	2030	51	120	3.618	0.301	3.806	1.676	0.006	0.034	0.034	568.299	0.027
Excavators	2030	121	175	3.914	0.213	3.362	0.525	0.006	0.023	0.023	568.299	0.019
Excavators	2030	176	250	5.258	0.203	1.145	0.452	0.006	0.016	0.016	568.299	0.018
Excavators	2030	251	500	7.722	0.202	1.088	0.433	0.005	0.016	0.016	568.299	0.018
Excavators	2030	501	750	12.807	0.202	1.088	0.437	0.005	0.016	0.016	568.299	0.018
Excavators	2035	16	25	1.838	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Excavators	2035	26	50	2.333	0.572	5.287	3.323	0.007	0.024	0.024	568.299	0.051
Excavators	2035	51	120	3.411	0.284	3.802	1.551	0.006	0.021	0.021	568.299	0.025
Excavators	2035	121	175	3.622	0.197	3.363	0.365	0.006	0.015	0.015	568.299	0.017
Excavators	2035	176	250	5.059	0.195	1.145	0.342	0.006	0.013	0.013	568.3	0.017
Excavators	2035	251	500	7.45	0.195	1.089	0.337	0.005	0.013	0.013	568.299	0.017
Excavators	2035	501	750	12.348	0.195	1.088	0.338	0.005	0.013	0.013	568.299	0.017
Excavators	2040	16	25	1.838	0.685	2.339	4.332	0.007	0.161	0.161	568.3	0.061
Excavators	2040	26	50	2.314	0.567	5.283	3.29	0.007	0.019	0.019	568.299	0.051
Excavators	2040	51	120	3.36	0.279	3.802	1.507	0.006	0.017	0.017	568.299	0.025
Excavators	2040	121	175	3.532	0.193	3.363	0.311	0.006	0.013	0.013	568.299	0.017
Excavators	2040	176	250	4.971	0.192	1.145	0.3	0.006	0.011	0.011	568.299	0.017
Excavators	2040	251	500	7.322	0.192	1.089	0.3	0.005	0.011	0.011	568.299	0.017
Excavators	2040	501	750	12.137	0.192	1.089	0.3	0.005	0.011	0.011	568.299	0.017
Forklifts	1990	26	50	11.848	4.826	9.773	7.952	0.692	1.266	1.266	568.299	0.435
Forklifts	1990	51	120	12.154	2.326	5.638	14.699	0.628	1.32	1.32	568.3	0.209
Forklifts	1990	121	175	14.423	1.537	4.938	12.932	0.602	0.849	0.849	568.299	0.138
Forklifts	1990	176	250	19.845	1.537	4.938	12.932	0.602	0.849	0.849	568.299	0.138
Forklifts	1990	251	500	25.356	1.365	10.853	12.267	0.525	0.73	0.73	568.299	0.123
Forklifts	2000	26	50	10.952	4.461	9.216	7.035	0.065	0.934	0.934	568.3	0.402
Forklifts	2000	51	120	9.146	1.75	4.459	9.75	0.059	0.882	0.882	568.299	0.157
Forklifts	2000	121	175	11.149	1.188	3.519	9.001	0.057	0.502	0.502	568.299	0.107
Forklifts	2000	176	250	11.958	0.926	2.534	8.546	0.057	0.372	0.372	568.299	0.083
Forklifts	2000	251	500	15.747	0.848	3.255	8.126	0.049	0.333	0.333	568.299	0.076
Forklifts	2005	26	50	10.087	4.108	8.778	6.62	0.065	0.891	0.891	568.299	0.37
Forklifts	2005	51	120	8.425	1.612	4.35	8.602	0.059	0.876	0.876	568.299	0.145
Forklifts	2005	121	175	9.959	1.061	3.418	7.94	0.057	0.475	0.475	568.299	0.095
Forklifts	2005	176	250	8.606	0.666	1.693	7.367	0.057	0.253	0.253	568.299	0.06
Forklifts	2005	251	500	10.976	0.591	1.803	6.611	0.049	0.23	0.23	568.299	0.053
Forklifts	2010	26	50	2.846117	2.392	7.62516	6.31187	0.005	0.729	0.671	583.8704	0.17
Forklifts	2010	51	120	1.045472	0.878	4.10764	7.63494	0.005	0.625	0.575	523.9205	0.153
Forklifts	2010	121	175	0.764801	0.643	3.54812	7.24303	0.005	0.389	0.357	524.5625	0.153
Forklifts	2010	176	250	0.852639	0.716	2.88991	8.49545	0.005	0.398	0.366	525.9172	0.153
Forklifts	2010	251	500	0.814667	0.685	5.79345	8.13812	0.005	0.381	0.351	526.239	0.153
Forklifts	2011	26	50	2.771689	2.329	7.5619	6.26642	0.005	0.715	0.657	582.4107	0.17
Forklifts	2011	51	120	1.023636	0.86	4.10232	7.45983	0.005	0.617	0.568	522.6107	0.153
Forklifts	2011	121	175	0.759385	0.638	3.55732	7.14122	0.005	0.385	0.355	523.2511	0.153
Forklifts	2011	176	250	0.819463	0.689	2.77115	8.17495	0.005	0.381	0.35	524.6024	0.153
Forklifts	2011	251	500	0.787175	0.661	5.42187	7.84	0.005	0.368	0.338	524.9234	0.153
Forklifts	2012	26	50	2.800937	2.354	7.68036	6.27736	0.005	0.72	0.663	580.951	0.17
Forklifts	2012	51	120	1.026513	0.863	4.13104	7.43066	0.005	0.62	0.571	521.3009	0.153
Forklifts	2012	121	175	0.764904	0.643	3.58413	7.11981	0.005	0.387	0.356	521.9397	0.153
Forklifts	2012	176	250	0.82428	0.693	2.77846	8.14199	0.005	0.381	0.35	523.2876	0.153
Forklifts	2012	251	500	0.795085	0.668	5.42806	7.85628	0.005	0.369	0.34	523.6078	0.153
Forklifts	2013	26	50	2.655997	2.232	7.4937	6.14743	0.005	0.689	0.634	578.0317	0.17
Forklifts	2013	51	120	0.996839	0.838	4.11855	7.21545	0.005	0.603	0.555	518.6813	0.153
Forklifts	2013	121	175	0.743778	0.625	3.57971	6.90229	0.005	0.375	0.345	519.3169	0.153
Forklifts	2013	176	250	0.786493	0.661	2.67477	7.77338	0.005	0.36	0.332	520.658	0.153
Forklifts	2013	251	500	0.686735	0.577	4.6871	6.91072	0.005	0.314	0.289	520.9766	0.153
Forklifts	2014	26	50	2.515249	2.114	7.32058	6.00609	0.005	0.656	0.604	575.1123	0.17
Forklifts	2014	51	120	0.945485	0.794	4.07936	6.84833	0.005	0.574	0.528	516.0617	0.153
Forklifts	2014	121	175	0.688099	0.578	3.52073	6.35205	0.005	0.345	0.317	516.694	0.153
Forklifts	2014	176	250	0.731475	0.615	2.50114	7.27612	0.005	0.33	0.304	518.0284	0.153
Forklifts	2014	251	500	0.644228	0.541	4.25186	6.35258	0.005	0.289	0.266	518.3454	0.153
Forklifts	2015	26	50	2.466892	2.073	7.29982	5.93143	0.005	0.643	0.591	569.2736	0.17
Forklifts	2015	51	120	0.914509	0.768	4.06346	6.60091	0.005	0.555	0.51	510.8225	0.153
Forklifts	2015	121	175	0.673169	0.566	3.51969	6.13482	0.005	0.335	0.308	511.4484	0.153
Forklifts	2015	176	250	0.672054	0.565	2.32501	6.69668	0.005	0.298	0.274	512.7693	0.153
Forklifts	2015	251	500	0.539875	0.454	3.29951	5.33227	0.005	0.237	0.218	513.083	0.153
Forklifts	2016	26	50	2.217878	1.864	6.93473	5.66211	0.005	0.583	0.537	563.4349	0.17
Forklifts	2016	51	120	0.860278	0.723	4.02311	6.22192	0.005	0.52	0.479	505.5833	0.153
Forklifts	2016	121	175	0.630613	0.53	3.47253	5.67466	0.005	0.31	0.285	506.2028	0.153
Forklifts	2016	176	250	0.641979	0.539	2.22626	6.35303	0.005	0.28	0.257	507.5101	0.153
Forklifts	2016	251	500	0.419581	0.353	2.57209	4.04212	0.005	0.174	0.16	507.8206	0.153
Forklifts	2017	26	50	2.026819	1.703	6.67251	5.45035	0.005	0.536	0.493	554.6769	0.17

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Forklifts	2017	51	120	0.799635	0.672	3.97881	5.81772	0.005	0.48	0.442	497.7245	0.153
Forklifts	2017	121	175	0.604568	0.508	3.45188	5.36215	0.005	0.294	0.27	498.3344	0.153
Forklifts	2017	176	250	0.589964	0.496	2.0923	5.75116	0.005	0.252	0.232	499.6213	0.153
Forklifts	2017	251	500	0.401897	0.338	2.50803	3.7797	0.005	0.161	0.148	499.927	0.153
Forklifts	2018	26	50	1.658295	1.393	6.10276	5.05181	0.005	0.447	0.411	545.9188	0.17
Forklifts	2018	51	120	0.675301	0.567	3.85819	5.0153	0.005	0.4	0.368	489.8657	0.153
Forklifts	2018	121	175	0.508414	0.427	3.33646	4.42984	0.005	0.241	0.222	490.4659	0.153
Forklifts	2018	176	250	0.506009	0.425	1.83475	4.93757	0.005	0.207	0.191	491.7326	0.153
Forklifts	2018	251	500	0.335655	0.282	1.87814	3.01864	0.005	0.125	0.115	492.0335	0.153
Forklifts	2019	26	50	1.480074	1.244	5.88034	4.86189	0.005	0.401	0.369	537.1608	0.17
Forklifts	2019	51	120	0.606336	0.509	3.80391	4.54965	0.005	0.352	0.324	482.0069	0.153
Forklifts	2019	121	175	0.454984	0.382	3.28831	3.86458	0.005	0.21	0.193	482.5975	0.153
Forklifts	2019	176	250	0.445406	0.374	1.6773	4.2498	0.005	0.175	0.161	483.8438	0.153
Forklifts	2019	251	500	0.31829	0.267	1.814	2.75148	0.005	0.112	0.103	484.1399	0.153
Forklifts	2020	26	50	1.337399	1.124	5.70563	4.68572	0.005	0.36	0.331	525.4833	0.17
Forklifts	2020	51	120	0.545921	0.459	3.75954	4.13299	0.005	0.308	0.283	471.5285	0.153
Forklifts	2020	121	175	0.402357	0.338	3.24885	3.3196	0.005	0.18	0.165	472.1062	0.153
Forklifts	2020	176	250	0.348476	0.293	1.44178	3.24149	0.005	0.126	0.116	473.3255	0.153
Forklifts	2020	251	500	0.299035	0.251	1.47807	2.43991	0.005	0.097	0.089	473.6151	0.153
Forklifts	2021	26	50	1.192536	1.002	5.53477	4.5202	0.005	0.318	0.292	525.4833	0.17
Forklifts	2021	51	120	0.490261	0.412	3.72	3.75592	0.005	0.267	0.245	471.5285	0.153
Forklifts	2021	121	175	0.366939	0.308	3.23128	2.9207	0.005	0.158	0.145	472.1062	0.153
Forklifts	2021	176	250	0.296154	0.249	1.33672	2.58195	0.005	0.099	0.091	473.3255	0.153
Forklifts	2021	251	500	0.301833	0.254	1.48481	2.30266	0.005	0.094	0.086	473.6151	0.153
Forklifts	2022	26	50	1.02259	0.859	5.30418	4.31214	0.005	0.27	0.248	525.4833	0.17
Forklifts	2022	51	120	0.430627	0.362	3.67507	3.36021	0.005	0.223	0.205	471.5285	0.153
Forklifts	2022	121	175	0.324265	0.272	3.19749	2.47982	0.005	0.132	0.122	472.1062	0.153
Forklifts	2022	176	250	0.280841	0.236	1.3171	2.31941	0.005	0.09	0.083	473.3255	0.153
Forklifts	2022	251	500	0.275829	0.232	1.21922	1.99119	0.005	0.077	0.071	473.6151	0.153
Forklifts	2023	26	50	0.911766	0.766	5.16597	4.15219	0.005	0.232	0.213	525.4833	0.17
Forklifts	2023	51	120	0.388709	0.327	3.64655	3.0569	0.005	0.189	0.174	471.5285	0.153
Forklifts	2023	121	175	0.289923	0.244	3.1799	2.11214	0.005	0.111	0.102	472.1062	0.153
Forklifts	2023	176	250	0.242474	0.204	1.23515	1.80718	0.005	0.069	0.063	473.3255	0.153
Forklifts	2023	251	500	0.261765	0.22	1.21596	1.78772	0.005	0.069	0.063	473.6151	0.153
Forklifts	2024	26	50	0.823848	0.692	5.0885	4.03948	0.005	0.203	0.187	525.4833	0.17
Forklifts	2024	51	120	0.357083	0.3	3.62907	2.81432	0.005	0.163	0.15	471.5285	0.153
Forklifts	2024	121	175	0.266701	0.224	3.17389	1.86129	0.005	0.096	0.088	472.1062	0.153
Forklifts	2024	176	250	0.232645	0.195	1.21846	1.6253	0.005	0.061	0.056	473.3255	0.153
Forklifts	2024	251	500	0.258844	0.218	1.21901	1.72336	0.005	0.065	0.06	473.6151	0.153
Forklifts	2025	26	50	0.757155	0.636	5.02929	3.93206	0.005	0.178	0.164	525.4833	0.17
Forklifts	2025	51	120	0.329382	0.277	3.61138	2.60732	0.005	0.14	0.128	471.5285	0.153
Forklifts	2025	121	175	0.248361	0.209	3.17013	1.653	0.005	0.084	0.078	472.1062	0.153
Forklifts	2025	176	250	0.226669	0.19	1.2143	1.46623	0.005	0.056	0.052	473.3255	0.153
Forklifts	2025	251	500	0.255656	0.215	1.22207	1.65848	0.005	0.062	0.057	473.6151	0.153
Forklifts	2030	26	50	1.388	0.565	5.272	3.33	0.007	0.023	0.023	568.299	0.051
Forklifts	2030	51	120	1.48	0.283	3.799	1.555	0.006	0.021	0.021	568.299	0.025
Forklifts	2030	121	175	1.875	0.199	3.36	0.391	0.006	0.015	0.015	568.299	0.018
Forklifts	2030	176	250	2.524	0.195	1.144	0.341	0.006	0.012	0.012	568.299	0.017
Forklifts	2030	251	500	3.633	0.195	1.088	0.341	0.005	0.012	0.012	568.299	0.017
Forklifts	2035	26	50	1.371	0.558	5.234	3.268	0.007	0.017	0.017	568.299	0.05
Forklifts	2035	51	120	1.438	0.275	3.787	1.495	0.006	0.016	0.016	568.299	0.024
Forklifts	2035	121	175	1.775	0.189	3.35	0.299	0.006	0.012	0.012	568.3	0.017
Forklifts	2035	176	250	2.433	0.188	1.141	0.29	0.006	0.011	0.011	568.3	0.017
Forklifts	2035	251	500	3.502	0.188	1.085	0.29	0.005	0.011	0.011	568.299	0.017
Forklifts	2040	26	50	1.38	0.562	5.256	3.272	0.007	0.017	0.017	568.299	0.05
Forklifts	2040	51	120	1.444	0.276	3.794	1.491	0.006	0.016	0.016	568.299	0.024
Forklifts	2040	121	175	1.777	0.189	3.356	0.288	0.006	0.012	0.012	568.299	0.017
Forklifts	2040	176	250	2.445	0.189	1.143	0.288	0.006	0.011	0.011	568.299	0.017
Forklifts	2040	251	500	3.518	0.189	1.087	0.288	0.005	0.011	0.011	568.299	0.017
Generator Sets	1990	6	15	4.791	1.804	4.999	10	1.018	0.974	0.974	568.299	0.162
Generator Sets	1990	16	25	10.151	2.213	4.999	6.919	0.83	0.74	0.74	568.299	0.199
Generator Sets	1990	26	50	24.936	3.13	6.681	7.325	0.846	0.928	0.928	568.299	0.282
Generator Sets	1990	51	120	38.362	1.891	4.97	13.19	0.768	0.985	0.985	568.299	0.17
Generator Sets	1990	121	175	47.754	1.292	4.395	11.864	0.736	0.653	0.653	568.3	0.116
Generator Sets	1990	176	250	71.475	1.292	4.395	11.864	0.736	0.653	0.653	568.299	0.116
Generator Sets	1990	251	500	104.891	1.196	6.53	11.613	0.642	0.596	0.596	568.299	0.107
Generator Sets	1990	501	750	169.323	1.196	6.53	11.612	0.658	0.596	0.596	568.299	0.107
Generator Sets	1990	1001	9999	326.002	1.195	6.53	11.612	0.658	0.594	0.594	568.299	0.107
Generator Sets	2000	6	15	4.033	1.518	4.875	8.846	0.079	0.613	0.613	568.299	0.137
Generator Sets	2000	16	25	7.648	1.667	4.783	6.405	0.065	0.51	0.51	568.299	0.15
Generator Sets	2000	26	50	23.582	2.96	6.415	6.55	0.066	0.692	0.692	568.299	0.267

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Generator Sets	2000	51	120	31.137	1.535	4.158	9.468	0.06	0.686	0.686	568.299	0.138
Generator Sets	2000	121	175	38.027	1.029	3.381	8.612	0.057	0.404	0.404	568.299	0.092
Generator Sets	2000	176	250	46.981	0.849	2.656	8.277	0.057	0.325	0.325	568.299	0.076
Generator Sets	2000	251	500	70.308	0.802	3.7	8.102	0.05	0.301	0.301	568.299	0.072
Generator Sets	2000	501	750	113.5	0.802	3.7	8.102	0.051	0.301	0.301	568.3	0.072
Generator Sets	2000	1001	9999	251.503	0.921	4.274	8.686	0.051	0.344	0.344	568.299	0.083
Generator Sets	2005	6	15	3.219	1.212	4.38	7.615	0.079	0.505	0.505	568.299	0.109
Generator Sets	2005	16	25	5.748	1.253	3.922	6.014	0.065	0.432	0.432	568.299	0.113
Generator Sets	2005	26	50	20.78	2.608	5.919	6.099	0.066	0.64	0.64	568.3	0.235
Generator Sets	2005	51	120	26.634	1.313	3.853	7.987	0.06	0.634	0.634	568.299	0.118
Generator Sets	2005	121	175	31.579	0.854	3.067	7.306	0.057	0.35	0.35	568.299	0.077
Generator Sets	2005	176	250	33.443	0.604	1.801	6.892	0.057	0.229	0.229	568.299	0.054
Generator Sets	2005	251	500	47.834	0.545	2.206	6.465	0.05	0.211	0.211	568.299	0.049
Generator Sets	2005	501	750	79.444	0.561	2.206	6.609	0.051	0.214	0.214	568.3	0.05
Generator Sets	2005	1001	9999	195.712	0.717	2.719	7.582	0.051	0.255	0.255	568.299	0.064
Generator Sets	2010	6	15	2.532	0.953	4.027	6.387	0.008	0.38	0.38	568.299	0.086
Generator Sets	2010	16	25	4.408	0.961	3.309	5.477	0.007	0.342	0.342	568.299	0.086
Generator Sets	2010	26	50	16.299	2.045	5.353	5.68	0.007	0.522	0.522	568.299	0.184
Generator Sets	2010	51	120	20.399	1.005	3.677	6.573	0.006	0.516	0.516	568.299	0.09
Generator Sets	2010	121	175	24.447	0.661	2.986	5.87	0.006	0.286	0.286	568.299	0.059
Generator Sets	2010	176	250	23.668	0.428	1.333	5.501	0.006	0.163	0.163	568.299	0.038
Generator Sets	2010	251	500	33.685	0.384	1.482	5.015	0.005	0.153	0.153	568.299	0.034
Generator Sets	2010	501	750	56.116	0.396	1.482	5.147	0.005	0.155	0.155	568.299	0.035
Generator Sets	2010	1001	9999	147.466	0.54	1.93	6.544	0.005	0.193	0.193	568.299	0.048
Generator Sets	2011	6	15	2.413	0.908	3.952	6.134	0.008	0.358	0.358	568.299	0.081
Generator Sets	2011	16	25	4.22	0.92	3.179	5.36	0.007	0.325	0.325	568.299	0.083
Generator Sets	2011	26	50	15.152	1.901	5.2	5.585	0.007	0.495	0.495	568.3	0.171
Generator Sets	2011	51	120	19.003	0.937	3.64	6.226	0.006	0.493	0.493	568.299	0.084
Generator Sets	2011	121	175	22.889	0.619	2.974	5.544	0.006	0.274	0.274	568.299	0.055
Generator Sets	2011	176	250	21.62	0.391	1.249	5.125	0.006	0.147	0.147	568.299	0.035
Generator Sets	2011	251	500	30.74	0.35	1.36	4.654	0.005	0.138	0.138	568.299	0.031
Generator Sets	2011	501	750	51.271	0.362	1.36	4.784	0.005	0.14	0.14	568.299	0.032
Generator Sets	2011	1001	9999	137.042	0.502	1.784	6.202	0.005	0.18	0.18	568.299	0.045
Generator Sets	2012	6	15	2.298	0.865	3.874	5.874	0.008	0.338	0.338	568.299	0.078
Generator Sets	2012	16	25	4.059	0.884	3.043	5.239	0.007	0.307	0.307	568.299	0.079
Generator Sets	2012	26	50	13.912	1.746	5.03	5.485	0.007	0.466	0.466	568.299	0.157
Generator Sets	2012	51	120	17.544	0.865	3.603	5.848	0.006	0.46	0.46	568.299	0.078
Generator Sets	2012	121	175	21.243	0.575	2.963	5.198	0.006	0.254	0.254	568.299	0.051
Generator Sets	2012	176	250	19.998	0.361	1.196	4.77	0.006	0.133	0.133	568.3	0.032
Generator Sets	2012	251	500	28.44	0.324	1.275	4.315	0.005	0.125	0.125	568.299	0.029
Generator Sets	2012	501	750	47.464	0.335	1.275	4.441	0.005	0.127	0.127	568.299	0.03
Generator Sets	2012	1001	9999	126.39	0.463	1.639	5.849	0.005	0.166	0.166	568.3	0.041
Generator Sets	2013	6	15	2.187	0.823	3.796	5.616	0.008	0.318	0.318	568.299	0.074
Generator Sets	2013	16	25	3.907	0.851	2.907	5.117	0.007	0.289	0.289	568.299	0.076
Generator Sets	2013	26	50	12.634	1.585	4.854	5.263	0.007	0.428	0.428	568.299	0.143
Generator Sets	2013	51	120	16.078	0.792	3.567	5.478	0.006	0.424	0.424	568.299	0.071
Generator Sets	2013	121	175	19.587	0.53	2.953	4.873	0.006	0.233	0.233	568.299	0.047
Generator Sets	2013	176	250	18.602	0.336	1.16	4.428	0.006	0.122	0.122	568.299	0.03
Generator Sets	2013	251	500	26.484	0.302	1.211	3.989	0.005	0.114	0.114	568.299	0.027
Generator Sets	2013	501	750	44.22	0.312	1.211	4.113	0.005	0.116	0.116	568.299	0.028
Generator Sets	2013	1001	9999	115.946	0.425	1.502	5.494	0.005	0.152	0.152	568.299	0.038
Generator Sets	2014	6	15	2.081	0.783	3.723	5.369	0.008	0.298	0.298	568.299	0.07
Generator Sets	2014	16	25	3.767	0.821	2.78	5	0.007	0.272	0.272	568.299	0.074
Generator Sets	2014	26	50	11.368	1.427	4.683	5.048	0.007	0.389	0.389	568.299	0.128
Generator Sets	2014	51	120	14.638	0.721	3.532	5.147	0.006	0.385	0.385	568.299	0.065
Generator Sets	2014	121	175	17.974	0.486	2.945	4.565	0.006	0.212	0.212	568.299	0.043
Generator Sets	2014	176	250	17.205	0.311	1.13	4.025	0.006	0.111	0.111	568.3	0.028
Generator Sets	2014	251	500	24.516	0.279	1.157	3.603	0.005	0.104	0.104	568.299	0.025
Generator Sets	2014	501	750	40.956	0.289	1.157	3.724	0.005	0.106	0.106	568.299	0.026
Generator Sets	2014	1001	9999	106.127	0.389	1.377	5.15	0.005	0.138	0.138	568.299	0.035
Generator Sets	2015	6	15	1.984	0.747	3.658	5.141	0.008	0.28	0.28	568.299	0.067
Generator Sets	2015	16	25	3.639	0.793	2.666	4.89	0.007	0.256	0.256	568.299	0.071
Generator Sets	2015	26	50	10.213	1.281	4.538	4.858	0.007	0.353	0.353	568.299	0.115
Generator Sets	2015	51	120	13.208	0.651	3.499	4.769	0.006	0.347	0.347	568.299	0.058
Generator Sets	2015	121	175	16.277	0.44	2.938	4.138	0.006	0.191	0.191	568.299	0.039
Generator Sets	2015	176	250	15.884	0.287	1.104	3.633	0.006	0.1	0.1	568.3	0.025
Generator Sets	2015	251	500	22.677	0.258	1.114	3.231	0.005	0.094	0.094	568.299	0.023
Generator Sets	2015	501	750	37.88	0.267	1.114	3.347	0.005	0.096	0.096	568.299	0.024
Generator Sets	2015	1001	9999	95.984	0.351	1.269	4.822	0.005	0.124	0.124	568.299	0.031
Generator Sets	2016	6	15	1.914	0.72	3.622	4.978	0.008	0.264	0.264	568.299	0.065
Generator Sets	2016	16	25	3.548	0.773	2.604	4.803	0.007	0.244	0.244	568.299	0.069

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Generator Sets	2016	26	50	9.132	1.146	4.41	4.685	0.007	0.318	0.318	568.299	0.103
Generator Sets	2016	51	120	11.84	0.583	3.469	4.41	0.006	0.309	0.309	568.299	0.052
Generator Sets	2016	121	175	14.658	0.396	2.934	3.731	0.006	0.17	0.17	568.299	0.035
Generator Sets	2016	176	250	14.652	0.265	1.081	3.259	0.006	0.09	0.09	568.299	0.023
Generator Sets	2016	251	500	21.002	0.239	1.077	2.882	0.005	0.084	0.084	568.299	0.021
Generator Sets	2016	501	750	35.041	0.247	1.077	2.989	0.005	0.086	0.086	568.3	0.022
Generator Sets	2016	1001	9999	88.441	0.324	1.204	4.542	0.005	0.113	0.113	568.299	0.029
Generator Sets	2017	6	15	1.857	0.699	3.599	4.847	0.008	0.25	0.25	568.299	0.063
Generator Sets	2017	16	25	3.476	0.757	2.564	4.729	0.007	0.233	0.233	568.299	0.068
Generator Sets	2017	26	50	8.107	1.017	4.292	4.522	0.007	0.285	0.285	568.299	0.091
Generator Sets	2017	51	120	10.557	0.52	3.442	4.072	0.006	0.274	0.274	568.299	0.046
Generator Sets	2017	121	175	13.162	0.356	2.931	3.347	0.006	0.151	0.151	568.299	0.032
Generator Sets	2017	176	250	13.548	0.245	1.063	2.91	0.006	0.081	0.081	568.299	0.022
Generator Sets	2017	251	500	19.649	0.224	1.048	2.579	0.005	0.076	0.076	568.299	0.02
Generator Sets	2017	501	750	32.544	0.23	1.048	2.66	0.005	0.077	0.077	568.299	0.02
Generator Sets	2017	1001	9999	82.27	0.301	1.161	4.293	0.005	0.104	0.104	568.299	0.027
Generator Sets	2018	6	15	1.805	0.679	3.58	4.728	0.008	0.237	0.237	568.299	0.061
Generator Sets	2018	16	25	3.412	0.744	2.531	4.661	0.007	0.224	0.224	568.299	0.067
Generator Sets	2018	26	50	7.133	0.895	4.182	4.366	0.007	0.253	0.253	568.299	0.08
Generator Sets	2018	51	120	9.356	0.461	3.418	3.752	0.006	0.239	0.239	568.299	0.041
Generator Sets	2018	121	175	11.794	0.319	2.93	2.989	0.006	0.133	0.133	568.299	0.028
Generator Sets	2018	176	250	12.549	0.226	1.048	2.582	0.006	0.072	0.072	568.299	0.02
Generator Sets	2018	251	500	18.523	0.211	1.028	2.31	0.005	0.069	0.069	568.299	0.019
Generator Sets	2018	501	750	30.476	0.215	1.028	2.37	0.005	0.07	0.07	568.299	0.019
Generator Sets	2018	1001	9999	76.62	0.28	1.128	4.058	0.005	0.095	0.095	568.299	0.025
Generator Sets	2019	6	15	1.758	0.662	3.562	4.617	0.008	0.224	0.224	568.299	0.059
Generator Sets	2019	16	25	3.356	0.731	2.501	4.596	0.007	0.214	0.214	568.299	0.066
Generator Sets	2019	26	50	6.208	0.779	4.076	4.215	0.007	0.222	0.222	568.299	0.07
Generator Sets	2019	51	120	8.233	0.405	3.396	3.446	0.006	0.206	0.206	568.299	0.036
Generator Sets	2019	121	175	10.727	0.29	2.929	2.669	0.006	0.118	0.118	568.299	0.026
Generator Sets	2019	176	250	11.695	0.211	1.036	2.285	0.006	0.064	0.064	568.299	0.019
Generator Sets	2019	251	500	17.492	0.199	1.015	2.056	0.005	0.062	0.062	568.299	0.018
Generator Sets	2019	501	750	28.675	0.202	1.015	2.104	0.005	0.062	0.062	568.299	0.018
Generator Sets	2019	1001	9999	71.228	0.261	1.103	3.829	0.005	0.087	0.087	568.299	0.023
Generator Sets	2020	6	15	1.715	0.646	3.546	4.516	0.008	0.212	0.212	568.299	0.058
Generator Sets	2020	16	25	3.307	0.721	2.473	4.538	0.007	0.205	0.205	568.299	0.065
Generator Sets	2020	26	50	5.508	0.691	3.995	4.075	0.007	0.194	0.194	568.299	0.062
Generator Sets	2020	51	120	7.383	0.364	3.38	3.173	0.006	0.179	0.179	568.299	0.032
Generator Sets	2020	121	175	9.884	0.267	2.93	2.38	0.006	0.105	0.105	568.299	0.024
Generator Sets	2020	176	250	10.963	0.198	1.026	2.016	0.006	0.057	0.057	568.299	0.017
Generator Sets	2020	251	500	16.528	0.188	1.005	1.816	0.005	0.055	0.055	568.299	0.017
Generator Sets	2020	501	750	27.045	0.191	1.005	1.858	0.005	0.056	0.056	568.299	0.017
Generator Sets	2020	1001	9999	66.08	0.242	1.082	3.608	0.005	0.079	0.079	568.3	0.021
Generator Sets	2021	6	15	1.683	0.634	3.531	4.441	0.008	0.201	0.201	568.299	0.057
Generator Sets	2021	16	25	3.268	0.712	2.446	4.497	0.007	0.196	0.196	568.299	0.064
Generator Sets	2021	26	50	4.884	0.613	3.905	3.916	0.007	0.165	0.165	568.299	0.055
Generator Sets	2021	51	120	6.62	0.326	3.361	2.888	0.006	0.153	0.153	568.299	0.029
Generator Sets	2021	121	175	8.995	0.243	2.925	2.068	0.006	0.091	0.091	568.299	0.021
Generator Sets	2021	176	250	10.146	0.183	1.016	1.73	0.006	0.049	0.049	568.299	0.016
Generator Sets	2021	251	500	15.395	0.175	0.996	1.562	0.005	0.048	0.048	568.299	0.015
Generator Sets	2021	501	750	25.135	0.177	0.996	1.596	0.005	0.048	0.048	568.299	0.016
Generator Sets	2021	1001	9999	60.247	0.22	1.06	3.372	0.005	0.07	0.07	568.3	0.019
Generator Sets	2022	6	15	1.662	0.626	3.519	4.39	0.008	0.193	0.193	568.299	0.056
Generator Sets	2022	16	25	3.242	0.706	2.426	4.47	0.007	0.188	0.188	568.299	0.063
Generator Sets	2022	26	50	4.466	0.56	3.858	3.796	0.007	0.143	0.143	568.299	0.05
Generator Sets	2022	51	120	6.113	0.301	3.353	2.671	0.006	0.134	0.134	568.299	0.027
Generator Sets	2022	121	175	8.363	0.226	2.926	1.83	0.006	0.081	0.081	568.299	0.02
Generator Sets	2022	176	250	9.575	0.173	1.01	1.508	0.006	0.043	0.043	568.299	0.015
Generator Sets	2022	251	500	14.616	0.166	0.99	1.384	0.005	0.042	0.042	568.299	0.015
Generator Sets	2022	501	750	23.822	0.168	0.99	1.412	0.005	0.043	0.043	568.299	0.015
Generator Sets	2022	1001	9999	56.346	0.206	1.045	3.202	0.005	0.063	0.063	568.299	0.018
Generator Sets	2023	6	15	1.643	0.618	3.508	4.345	0.008	0.186	0.186	568.299	0.055
Generator Sets	2023	16	25	3.219	0.701	2.407	4.447	0.007	0.182	0.182	568.299	0.063
Generator Sets	2023	26	50	4.102	0.514	3.819	3.685	0.007	0.124	0.124	568.299	0.046
Generator Sets	2023	51	120	5.671	0.279	3.347	2.477	0.006	0.117	0.117	568.299	0.025
Generator Sets	2023	121	175	7.812	0.211	2.927	1.635	0.006	0.071	0.071	568.299	0.019
Generator Sets	2023	176	250	9.077	0.164	1.006	1.328	0.006	0.038	0.038	568.299	0.014
Generator Sets	2023	251	500	13.922	0.158	0.986	1.228	0.005	0.037	0.037	568.299	0.014
Generator Sets	2023	501	750	22.664	0.16	0.986	1.253	0.005	0.037	0.037	568.299	0.014
Generator Sets	2023	1001	9999	53.06	0.194	1.031	3.058	0.005	0.058	0.058	568.299	0.017
Generator Sets	2024	6	15	1.627	0.612	3.499	4.305	0.008	0.181	0.181	568.299	0.055

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Generator Sets	2024	16	25	3.2	0.697	2.39	4.426	0.007	0.178	0.178	568.299	0.062
Generator Sets	2024	26	50	3.789	0.475	3.787	3.582	0.007	0.107	0.107	568.299	0.042
Generator Sets	2024	51	120	5.287	0.26	3.342	2.321	0.006	0.101	0.101	568.299	0.023
Generator Sets	2024	121	175	7.312	0.197	2.929	1.462	0.006	0.062	0.062	568.299	0.017
Generator Sets	2024	176	250	8.611	0.155	1.003	1.169	0.006	0.033	0.033	568.299	0.014
Generator Sets	2024	251	500	13.26	0.151	0.983	1.082	0.005	0.032	0.032	568.3	0.013
Generator Sets	2024	501	750	21.567	0.152	0.983	1.104	0.005	0.032	0.032	568.299	0.013
Generator Sets	2024	1001	9999	50.108	0.183	1.018	2.929	0.005	0.052	0.052	568.3	0.016
Generator Sets	2025	6	15	1.613	0.607	3.491	4.269	0.008	0.178	0.178	568.299	0.054
Generator Sets	2025	16	25	3.185	0.694	2.376	4.407	0.007	0.175	0.175	568.299	0.062
Generator Sets	2025	26	50	3.511	0.44	3.758	3.481	0.007	0.093	0.093	568.3	0.039
Generator Sets	2025	51	120	4.942	0.243	3.338	2.185	0.006	0.087	0.087	568.299	0.021
Generator Sets	2025	121	175	6.832	0.184	2.93	1.297	0.006	0.053	0.053	568.299	0.016
Generator Sets	2025	176	250	8.168	0.147	1	1.02	0.006	0.028	0.028	568.299	0.013
Generator Sets	2025	251	500	12.627	0.144	0.981	0.945	0.005	0.027	0.027	568.3	0.013
Generator Sets	2025	501	750	20.518	0.145	0.981	0.964	0.005	0.027	0.027	568.299	0.013
Generator Sets	2025	1001	9999	47.32	0.173	1.008	2.812	0.005	0.047	0.047	568.299	0.015
Generator Sets	2030	6	15	1.573	0.592	3.47	4.164	0.008	0.166	0.166	568.299	0.053
Generator Sets	2030	16	25	3.15	0.686	2.34	4.347	0.007	0.165	0.165	568.299	0.061
Generator Sets	2030	26	50	2.512	0.315	3.64	3.107	0.007	0.038	0.038	568.299	0.028
Generator Sets	2030	51	120	3.616	0.178	3.316	1.645	0.006	0.034	0.034	568.299	0.016
Generator Sets	2030	121	175	4.837	0.13	2.929	0.601	0.006	0.023	0.023	568.299	0.011
Generator Sets	2030	176	250	6.637	0.12	0.998	0.504	0.006	0.016	0.016	568.299	0.01
Generator Sets	2030	251	500	10.441	0.119	0.978	0.476	0.005	0.015	0.015	568.299	0.01
Generator Sets	2030	501	750	16.888	0.119	0.978	0.482	0.005	0.015	0.015	568.299	0.01
Generator Sets	2030	1001	9999	35.17	0.128	0.979	2.483	0.005	0.029	0.029	568.299	0.011
Generator Sets	2035	6	15	1.565	0.589	3.47	4.143	0.008	0.162	0.162	568.299	0.053
Generator Sets	2035	16	25	3.144	0.685	2.34	4.332	0.007	0.162	0.162	568.299	0.061
Generator Sets	2035	26	50	2.206	0.276	3.607	2.991	0.007	0.018	0.018	568.299	0.024
Generator Sets	2035	51	120	3.176	0.156	3.31	1.458	0.006	0.016	0.016	568.299	0.014
Generator Sets	2035	121	175	4.187	0.113	2.929	0.373	0.006	0.013	0.013	568.299	0.01
Generator Sets	2035	176	250	6.1	0.11	0.998	0.331	0.006	0.011	0.011	568.299	0.009
Generator Sets	2035	251	500	9.666	0.11	0.978	0.328	0.005	0.011	0.011	568.299	0.009
Generator Sets	2035	501	750	15.606	0.11	0.978	0.328	0.005	0.011	0.011	568.299	0.009
Generator Sets	2035	1001	9999	31.223	0.114	0.978	2.362	0.005	0.022	0.022	568.299	0.01
Generator Sets	2040	6	15	1.565	0.589	3.469	4.142	0.008	0.161	0.161	568.299	0.053
Generator Sets	2040	16	25	3.144	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Generator Sets	2040	26	50	2.182	0.273	3.601	2.941	0.007	0.012	0.012	568.3	0.024
Generator Sets	2040	51	120	3.086	0.152	3.308	1.399	0.006	0.012	0.012	568.299	0.013
Generator Sets	2040	121	175	3.958	0.107	2.928	0.293	0.006	0.01	0.01	568.299	0.009
Generator Sets	2040	176	250	5.86	0.106	0.997	0.277	0.006	0.009	0.009	568.299	0.009
Generator Sets	2040	251	500	9.29	0.106	0.978	0.277	0.005	0.009	0.009	568.299	0.009
Generator Sets	2040	501	750	14.997	0.106	0.978	0.277	0.005	0.009	0.009	568.3	0.009
Generator Sets	2040	1001	9999	29.36	0.107	0.978	2.33	0.005	0.02	0.02	568.299	0.009
Graders	1990	26	50	10.997	4.776	9.678	7.935	0.871	1.265	1.265	568.3	0.431
Graders	1990	51	120	14.614	2.332	5.658	14.78	0.791	1.325	1.325	568.299	0.21
Graders	1990	121	175	17.684	1.707	5.007	13.838	0.758	0.946	0.946	568.299	0.154
Graders	1990	176	250	24.561	1.707	5.007	13.838	0.758	0.946	0.946	568.299	0.154
Graders	1990	251	500	29.01	1.512	10.95	13.128	0.662	0.811	0.811	568.299	0.136
Graders	1990	501	750	61.406	1.512	10.95	13.128	1.018	0.826	0.826	568.3	0.136
Graders	2000	26	50	10.331	4.487	9.239	7.082	0.066	0.935	0.935	568.299	0.404
Graders	2000	51	120	11.628	1.855	4.675	10.486	0.06	0.904	0.904	568.3	0.167
Graders	2000	121	175	13.017	1.256	3.786	9.601	0.057	0.531	0.531	568.299	0.113
Graders	2000	176	250	15.266	1.061	3.039	9.264	0.057	0.437	0.437	568.299	0.095
Graders	2000	251	500	18.455	0.961	4.848	8.805	0.05	0.384	0.384	568.3	0.086
Graders	2000	501	750	39.064	0.961	4.848	8.805	0.052	0.384	0.384	568.299	0.086
Graders	2005	26	50	9.193	3.993	8.559	6.612	0.066	0.868	0.868	568.299	0.36
Graders	2005	51	120	10.174	1.623	4.406	9.021	0.06	0.849	0.849	568.3	0.146
Graders	2005	121	175	11.01	1.062	3.522	8.238	0.057	0.469	0.469	568.299	0.095
Graders	2005	176	250	11.283	0.784	2.17	7.837	0.057	0.314	0.314	568.299	0.07
Graders	2005	251	500	13.286	0.692	2.913	7.117	0.05	0.279	0.279	568.299	0.062
Graders	2005	501	750	28.569	0.703	2.909	7.284	0.052	0.282	0.282	568.299	0.063
Graders	2010	26	50	3.618169	3.04	8.828	6.50487	0.005	0.852	0.783	547.2284	0.159
Graders	2010	51	120	1.572744	1.322	4.95239	10.4805	0.005	0.854	0.786	523.7684	0.152
Graders	2010	121	175	1.025452	0.862	3.90428	8.98998	0.005	0.496	0.456	536.7031	0.156
Graders	2010	176	250	0.425787	0.358	1.43786	5.73143	0.005	0.182	0.167	530.3343	0.154
Graders	2010	251	500	0.323814	0.272	1.81115	3.80781	0.005	0.142	0.13	525.6597	0.153
Graders	2010	501	750	21.764	0.535	1.861	5.386	0.005	0.202	0.202	568.299	0.048
Graders	2011	26	50	3.655035	3.071	8.9223	6.52829	0.005	0.86	0.791	545.8822	0.159
Graders	2011	51	120	1.554125	1.306	4.9423	10.3495	0.005	0.847	0.78	522.5082	0.152
Graders	2011	121	175	1.019798	0.857	3.91881	8.91245	0.005	0.494	0.455	535.2864	0.156

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Graders	2011	176	250	0.436805	0.367	1.44556	5.74733	0.005	0.183	0.169	529.0473	0.154
Graders	2011	251	500	0.341103	0.287	1.83104	3.81827	0.005	0.144	0.132	524.3479	0.153
Graders	2011	501	750	20.697	0.509	1.744	4.992	0.005	0.184	0.184	568.299	0.045
Graders	2012	26	50	3.689945	3.101	9.01183	6.55055	0.005	0.867	0.798	544.5383	0.159
Graders	2012	51	120	1.550155	1.303	4.94871	10.2881	0.005	0.848	0.78	521.1967	0.152
Graders	2012	121	175	1.022941	0.86	3.94251	8.89699	0.005	0.496	0.456	533.878	0.156
Graders	2012	176	250	0.449323	0.378	1.45898	5.777	0.005	0.185	0.171	527.8224	0.154
Graders	2012	251	500	0.355329	0.299	1.82432	3.8123	0.005	0.145	0.133	522.8547	0.153
Graders	2012	501	750	19.697	0.485	1.642	4.624	0.005	0.168	0.168	568.299	0.043
Graders	2013	26	50	3.722893	3.128	9.0966	6.57166	0.005	0.874	0.804	541.8285	0.159
Graders	2013	51	120	1.548648	1.301	4.95898	10.2424	0.005	0.849	0.781	518.5552	0.152
Graders	2013	121	175	1.020021	0.857	3.95423	8.8338	0.005	0.495	0.455	530.9753	0.156
Graders	2013	176	250	0.455824	0.383	1.45924	5.74577	0.005	0.185	0.17	525.0407	0.154
Graders	2013	251	500	0.359627	0.302	1.7965	3.71231	0.005	0.141	0.13	520.0526	0.153
Graders	2013	501	750	18.765	0.462	1.556	4.281	0.005	0.152	0.152	568.299	0.041
Graders	2014	26	50	3.681797	3.094	9.06534	6.54967	0.005	0.867	0.798	539.1216	0.159
Graders	2014	51	120	1.510465	1.269	4.91977	9.98567	0.005	0.832	0.765	515.3819	0.152
Graders	2014	121	175	1.007876	0.847	3.95083	8.70206	0.005	0.488	0.449	527.8337	0.156
Graders	2014	176	250	0.463867	0.39	1.46245	5.73998	0.005	0.185	0.171	522.3298	0.154
Graders	2014	251	500	0.373775	0.314	1.79096	3.71371	0.005	0.143	0.131	517.3766	0.153
Graders	2014	501	750	17.784	0.437	1.483	3.876	0.005	0.138	0.138	568.299	0.039
Graders	2015	26	50	3.711306	3.119	9.14399	6.56967	0.005	0.874	0.804	533.6812	0.159
Graders	2015	51	120	1.474627	1.239	4.88439	9.73775	0.005	0.813	0.748	509.597	0.152
Graders	2015	121	175	1.004333	0.844	3.95849	8.63742	0.005	0.486	0.447	522.2182	0.156
Graders	2015	176	250	0.471304	0.396	1.46577	5.72754	0.005	0.186	0.171	517.1275	0.154
Graders	2015	251	500	0.388063	0.326	1.79107	3.72122	0.005	0.144	0.133	512.0975	0.153
Graders	2015	501	750	16.846	0.414	1.42	3.501	0.005	0.124	0.124	568.299	0.037
Graders	2016	26	50	3.670899	3.085	9.10623	6.51973	0.005	0.864	0.795	528.2444	0.159
Graders	2016	51	120	1.419659	1.193	4.82948	9.41488	0.005	0.78	0.718	503.1614	0.152
Graders	2016	121	175	0.963567	0.81	3.91624	8.24966	0.005	0.463	0.426	516.1305	0.156
Graders	2016	176	250	0.473996	0.398	1.45911	5.6628	0.005	0.184	0.169	511.6959	0.154
Graders	2016	251	500	0.397787	0.334	1.77374	3.6858	0.005	0.144	0.132	506.5064	0.153
Graders	2016	501	750	15.959	0.393	1.367	3.154	0.005	0.112	0.112	568.299	0.035
Graders	2017	26	50	3.5783	3.007	8.97826	6.423	0.005	0.843	0.776	520.0747	0.159
Graders	2017	51	120	1.385767	1.164	4.81041	9.19125	0.005	0.759	0.698	495.9186	0.152
Graders	2017	121	175	0.901	0.757	3.84518	7.66265	0.005	0.43	0.396	506.7478	0.155
Graders	2017	176	250	0.471391	0.396	1.44905	5.52488	0.005	0.18	0.166	503.8022	0.154
Graders	2017	251	500	0.397706	0.334	1.70747	3.55709	0.005	0.139	0.128	498.5996	0.153
Graders	2017	501	750	15.127	0.372	1.323	2.835	0.005	0.1	0.1	568.299	0.033
Graders	2018	26	50	3.342571	2.809	8.62631	6.17962	0.005	0.79	0.726	511.9098	0.159
Graders	2018	51	120	1.27956	1.075	4.69711	8.51954	0.005	0.697	0.641	487.6979	0.152
Graders	2018	121	175	0.78708	0.661	3.70957	6.60465	0.005	0.371	0.342	497.3767	0.155
Graders	2018	176	250	0.457376	0.384	1.41595	5.27094	0.005	0.171	0.158	495.431	0.154
Graders	2018	251	500	0.385909	0.324	1.56446	3.34465	0.005	0.129	0.119	490.5758	0.153
Graders	2018	501	750	14.353	0.353	1.286	2.543	0.005	0.09	0.09	568.299	0.031
Graders	2019	26	50	3.11378	2.616	8.27912	5.94463	0.005	0.737	0.678	503.7509	0.159
Graders	2019	51	120	1.228249	1.032	4.6424	8.1592	0.005	0.665	0.612	479.9011	0.152
Graders	2019	121	175	0.724541	0.609	3.65586	6.01354	0.005	0.337	0.31	489.0419	0.155
Graders	2019	176	250	0.428358	0.36	1.35927	4.86575	0.005	0.156	0.144	486.3288	0.154
Graders	2019	251	500	0.384059	0.323	1.52849	3.21794	0.005	0.124	0.114	482.5879	0.153
Graders	2019	501	750	13.635	0.335	1.255	2.276	0.005	0.08	0.08	568.299	0.03
Graders	2020	26	50	2.994737	2.516	8.13394	5.82549	0.005	0.709	0.652	492.8615	0.159
Graders	2020	51	120	1.161574	0.976	4.56142	7.72513	0.005	0.622	0.572	469.3371	0.152
Graders	2020	121	175	0.674427	0.567	3.62102	5.53045	0.005	0.309	0.284	478.0403	0.155
Graders	2020	176	250	0.41877	0.352	1.34183	4.67787	0.005	0.15	0.138	475.3037	0.154
Graders	2020	251	500	0.383198	0.322	1.5256	3.10731	0.005	0.121	0.111	471.9795	0.153
Graders	2020	501	750	12.961	0.319	1.229	2.031	0.005	0.072	0.072	568.299	0.028
Graders	2021	26	50	2.660206	2.235	7.62621	5.48468	0.005	0.631	0.581	492.9352	0.159
Graders	2021	51	120	1.072144	0.901	4.45175	7.12535	0.005	0.57	0.524	469.0701	0.152
Graders	2021	121	175	0.601372	0.505	3.55896	4.83947	0.005	0.27	0.248	478.5289	0.155
Graders	2021	176	250	0.398657	0.335	1.30687	4.38134	0.005	0.139	0.128	474.5386	0.153
Graders	2021	251	500	0.383194	0.322	1.46044	3.01257	0.005	0.117	0.108	471.8981	0.153
Graders	2021	501	750	12.333	0.303	1.207	1.808	0.005	0.064	0.064	568.299	0.027
Graders	2022	26	50	2.506375	2.106	7.42848	5.33188	0.005	0.595	0.547	493.0249	0.159
Graders	2022	51	120	0.947815	0.796	4.32966	6.36004	0.005	0.493	0.453	469.6301	0.152
Graders	2022	121	175	0.524016	0.44	3.49283	4.12488	0.005	0.229	0.211	478.5664	0.155
Graders	2022	176	250	0.365229	0.307	1.27327	3.8881	0.005	0.124	0.114	474.239	0.153
Graders	2022	251	500	0.370143	0.311	1.38967	2.80191	0.005	0.108	0.1	471.9278	0.153
Graders	2022	501	750	11.747	0.289	1.187	1.606	0.005	0.057	0.057	568.299	0.026
Graders	2023	26	50	2.316861	1.947	7.19094	5.14799	0.005	0.549	0.505	494.0202	0.16
Graders	2023	51	120	0.855685	0.719	4.22811	5.74006	0.005	0.436	0.401	469.2859	0.152

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Graders	2023	121	175	0.463941	0.39	3.45006	3.54785	0.005	0.195	0.18	478.4629	0.155
Graders	2023	176	250	0.337478	0.284	1.25173	3.44101	0.005	0.111	0.103	473.9256	0.153
Graders	2023	251	500	0.367269	0.309	1.38481	2.70451	0.005	0.105	0.097	471.0306	0.152
Graders	2023	501	750	11.215	0.276	1.17	1.425	0.005	0.051	0.051	568.3	0.024
Graders	2024	26	50	2.201935	1.85	7.05059	5.0278	0.005	0.52	0.479	493.7913	0.16
Graders	2024	51	120	0.812369	0.683	4.20033	5.43389	0.005	0.408	0.375	469.8208	0.152
Graders	2024	121	175	0.433005	0.364	3.43239	3.20219	0.005	0.177	0.163	478.4966	0.155
Graders	2024	176	250	0.312074	0.262	1.22497	3.07323	0.005	0.1	0.092	473.6685	0.153
Graders	2024	251	500	0.348233	0.293	1.35613	2.43171	0.005	0.095	0.088	470.2664	0.152
Graders	2024	501	750	10.734	0.264	1.155	1.265	0.005	0.046	0.046	568.3	0.023
Graders	2025	26	50	2.21878	1.864	7.12535	5.04301	0.005	0.522	0.48	493.5322	0.16
Graders	2025	51	120	0.759044	0.638	4.14911	5.07379	0.005	0.371	0.342	468.3155	0.151
Graders	2025	121	175	0.391287	0.329	3.41759	2.77396	0.005	0.152	0.14	478.5084	0.155
Graders	2025	176	250	0.273788	0.23	1.17888	2.55629	0.005	0.082	0.076	473.4704	0.153
Graders	2025	251	500	0.332717	0.28	1.31461	2.26485	0.005	0.088	0.081	470.7533	0.152
Graders	2025	501	750	10.301	0.253	1.141	1.125	0.005	0.041	0.041	568.3	0.022
Graders	2030	26	50	1.493	0.648	5.239	3.53	0.007	0.065	0.065	568.299	0.058
Graders	2030	51	120	2.028	0.323	3.775	1.903	0.006	0.058	0.058	568.299	0.029
Graders	2030	121	175	2.458	0.237	3.326	0.815	0.006	0.038	0.038	568.3	0.021
Graders	2030	176	250	3.114	0.216	1.148	0.684	0.006	0.024	0.024	568.299	0.019
Graders	2030	251	500	4.115	0.214	1.097	0.647	0.005	0.023	0.023	568.299	0.019
Graders	2030	501	750	8.717	0.214	1.097	0.654	0.005	0.023	0.023	568.299	0.019
Graders	2035	26	50	1.367	0.593	5.189	3.356	0.007	0.037	0.037	568.299	0.053
Graders	2035	51	120	1.837	0.293	3.767	1.661	0.006	0.034	0.034	568.299	0.026
Graders	2035	121	175	2.136	0.206	3.326	0.506	0.006	0.022	0.022	568.3	0.018
Graders	2035	176	250	2.822	0.196	1.137	0.452	0.006	0.016	0.016	568.299	0.017
Graders	2035	251	500	3.746	0.195	1.083	0.434	0.005	0.016	0.016	568.299	0.017
Graders	2035	501	750	7.933	0.195	1.083	0.438	0.005	0.016	0.016	568.299	0.017
Graders	2040	26	50	1.297	0.563	5.161	3.298	0.007	0.026	0.026	568.3	0.05
Graders	2040	51	120	1.747	0.278	3.764	1.56	0.006	0.024	0.024	568.299	0.025
Graders	2040	121	175	2.002	0.193	3.326	0.38	0.006	0.017	0.017	568.299	0.017
Graders	2040	176	250	2.719	0.188	1.133	0.36	0.006	0.013	0.013	568.299	0.017
Graders	2040	251	500	3.619	0.188	1.079	0.351	0.005	0.013	0.013	568.299	0.017
Graders	2040	501	750	7.663	0.188	1.079	0.353	0.005	0.013	0.013	568.299	0.017
Off-Highway Tractors	1990	51	120	7.901	2.432	5.842	15.285	0.791	1.384	1.384	568.299	0.219
Off-Highway Tractors	1990	121	175	8.363	1.85	5.217	14.647	0.758	1.033	1.033	568.299	0.166
Off-Highway Tractors	1990	176	250	8.363	1.85	5.217	14.647	0.758	1.033	1.033	568.299	0.166
Off-Highway Tractors	1990	501	750	32.077	1.629	11.847	13.849	1.018	0.896	0.896	568.3	0.147
Off-Highway Tractors	1990	751	1000	45.779	1.622	11.847	13.849	1.018	0.888	0.888	568.3	0.146
Off-Highway Tractors	2000	51	120	6.648	2.047	5.046	11.606	0.06	0.972	0.972	568.299	0.184
Off-Highway Tractors	2000	121	175	6.386	1.413	4.213	10.675	0.057	0.602	0.602	568.299	0.127
Off-Highway Tractors	2000	176	250	5.736	1.269	3.665	10.426	0.057	0.532	0.532	568.299	0.114
Off-Highway Tractors	2000	501	750	22.339	1.134	6.836	9.864	0.052	0.461	0.461	568.299	0.102
Off-Highway Tractors	2000	751	1000	33.036	1.17	7.259	10.29	0.052	0.444	0.444	568.299	0.105
Off-Highway Tractors	2005	51	120	6.042	1.86	4.801	10.379	0.06	0.932	0.932	568.299	0.167
Off-Highway Tractors	2005	121	175	5.63	1.246	3.943	9.479	0.057	0.547	0.547	568.299	0.112
Off-Highway Tractors	2005	176	250	4.641	1.027	2.923	9.16	0.057	0.425	0.425	568.299	0.092
Off-Highway Tractors	2005	501	750	17.978	0.913	4.992	8.543	0.052	0.372	0.372	568.299	0.082
Off-Highway Tractors	2005	751	1000	27.525	0.975	5.369	9.293	0.052	0.359	0.359	568.299	0.088
Off-Highway Tractors	2010	51	120	1.004164	0.844	4.06859	7.39576	0.005	0.61	0.561	529.8898	0.154
Off-Highway Tractors	2010	121	175	0.623556	0.524	3.25207	6.19445	0.005	0.322	0.297	526.0485	0.153
Off-Highway Tractors	2010	176	250	0.540439	0.454	1.80076	6.56823	0.005	0.241	0.222	522.8212	0.152
Off-Highway Tractors	2010	501	750	0.353776	0.297	1.65183	4.74911	0.005	0.163	0.15	526.6401	0.153
Off-Highway Tractors	2010	751	1000	1.235451	1.038	13.844	12.2723	0.005	0.624	0.574	524.505	0.153
Off-Highway Tractors	2011	51	120	0.958318	0.805	4.04749	7.12201	0.005	0.588	0.541	528.6123	0.154
Off-Highway Tractors	2011	121	175	0.588696	0.495	3.25718	5.88095	0.005	0.307	0.282	524.5528	0.153
Off-Highway Tractors	2011	176	250	0.522937	0.439	1.73271	6.3706	0.005	0.23	0.212	521.5328	0.152
Off-Highway Tractors	2011	501	750	0.366196	0.308	1.66137	4.77936	0.005	0.166	0.153	525.3172	0.153
Off-Highway Tractors	2011	751	1000	1.235451	1.038	13.844	12.2723	0.005	0.624	0.574	523.1938	0.153
Off-Highway Tractors	2012	51	120	0.956826	0.804	4.07302	7.07175	0.005	0.588	0.541	527.1281	0.154
Off-Highway Tractors	2012	121	175	0.573556	0.482	3.27598	5.70904	0.005	0.299	0.276	523.1986	0.153
Off-Highway Tractors	2012	176	250	0.51645	0.434	1.70131	6.26836	0.005	0.225	0.207	520.2636	0.152
Off-Highway Tractors	2012	501	750	0.3785	0.318	1.67078	4.80904	0.005	0.169	0.155	523.9941	0.153
Off-Highway Tractors	2012	751	1000	1.235451	1.038	13.844	12.2723	0.005	0.624	0.574	521.8825	0.153
Off-Highway Tractors	2013	51	120	0.915141	0.769	4.04714	6.79599	0.005	0.564	0.519	524.1555	0.154
Off-Highway Tractors	2013	121	175	0.54434	0.457	3.28016	5.42114	0.005	0.281	0.258	520.6151	0.153
Off-Highway Tractors	2013	176	250	0.508791	0.428	1.67153	6.11434	0.005	0.219	0.201	517.5627	0.152
Off-Highway Tractors	2013	501	750	0.342496	0.288	1.42496	4.32547	0.005	0.149	0.137	519.6246	0.153
Off-Highway Tractors	2013	751	1000	1.235451	1.038	13.844	12.2723	0.005	0.624	0.574	519.26	0.153
Off-Highway Tractors	2014	51	120	0.830806	0.698	3.97241	6.28073	0.005	0.513	0.472	520.8244	0.154
Off-Highway Tractors	2014	121	175	0.504784	0.424	3.26511	5.02525	0.005	0.258	0.237	518.1639	0.153

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Off-Highway Tractors	2014	176	250	0.481559	0.405	1.62822	5.66092	0.005	0.203	0.187	514.3699	0.152
Off-Highway Tractors	2014	501	750	0.317193	0.267	1.33448	4.00651	0.005	0.133	0.122	516.904	0.153
Off-Highway Tractors	2014	751	1000	0.100665	0.085	0.94694	2.27938	0.005	0.054	0.05	516.6375	0.153
Off-Highway Tractors	2015	51	120	0.802587	0.674	3.96474	6.06726	0.005	0.494	0.455	515.3203	0.154
Off-Highway Tractors	2015	121	175	0.478075	0.402	3.26419	4.72365	0.005	0.239	0.22	512.6079	0.153
Off-Highway Tractors	2015	176	250	0.476529	0.4	1.60534	5.52773	0.005	0.199	0.183	509.1896	0.152
Off-Highway Tractors	2015	501	750	0.312134	0.262	1.17195	3.87437	0.005	0.126	0.116	511.0814	0.153
Off-Highway Tractors	2015	751	1000	0.114305	0.096	0.96003	2.29983	0.005	0.056	0.051	511.3924	0.153
Off-Highway Tractors	2016	51	120	0.743357	0.625	3.92464	5.6465	0.005	0.454	0.418	509.4472	0.154
Off-Highway Tractors	2016	121	175	0.465284	0.391	3.27806	4.51093	0.005	0.229	0.211	507.6294	0.153
Off-Highway Tractors	2016	176	250	0.426838	0.359	1.47177	4.92994	0.005	0.171	0.157	504.1229	0.152
Off-Highway Tractors	2016	501	750	0.299821	0.252	1.14348	3.57265	0.005	0.117	0.108	505.762	0.153
Off-Highway Tractors	2016	751	1000	0.127675	0.107	0.97285	2.31987	0.005	0.057	0.053	506.1474	0.153
Off-Highway Tractors	2017	51	120	0.697857	0.586	3.90108	5.31726	0.005	0.423	0.389	501.2453	0.154
Off-Highway Tractors	2017	121	175	0.423504	0.356	3.2589	4.02594	0.005	0.205	0.189	499.2446	0.153
Off-Highway Tractors	2017	176	250	0.389773	0.328	1.403	4.38216	0.005	0.151	0.139	496.4983	0.152
Off-Highway Tractors	2017	501	750	0.294592	0.248	1.14456	3.32351	0.005	0.112	0.103	497.6181	0.152
Off-Highway Tractors	2017	751	1000	0.140776	0.118	0.98542	2.33951	0.005	0.059	0.054	498.2798	0.153
Off-Highway Tractors	2018	51	120	0.621057	0.522	3.83227	4.78732	0.005	0.373	0.343	492.8709	0.153
Off-Highway Tractors	2018	121	175	0.374746	0.315	3.2191	3.49764	0.005	0.176	0.162	491.3128	0.153
Off-Highway Tractors	2018	176	250	0.323278	0.272	1.29494	3.45421	0.005	0.119	0.109	488.6765	0.152
Off-Highway Tractors	2018	501	750	0.232675	0.196	1.11871	2.1656	0.005	0.081	0.074	490.1818	0.153
Off-Highway Tractors	2018	751	1000	0.153606	0.129	0.99773	2.35874	0.005	0.06	0.055	490.4122	0.153
Off-Highway Tractors	2019	51	120	0.562974	0.473	3.79465	4.42145	0.005	0.331	0.305	484.2693	0.153
Off-Highway Tractors	2019	121	175	0.350048	0.294	3.21895	3.20755	0.005	0.159	0.146	483.4306	0.153
Off-Highway Tractors	2019	176	250	0.283777	0.238	1.21832	2.9142	0.005	0.098	0.09	481.2751	0.152
Off-Highway Tractors	2019	501	750	0.244248	0.205	1.12934	2.17682	0.005	0.082	0.075	482.3091	0.153
Off-Highway Tractors	2019	751	1000	0.166166	0.14	1.00978	2.37757	0.005	0.062	0.057	482.5446	0.153
Off-Highway Tractors	2020	51	120	0.533073	0.448	3.78798	4.18317	0.005	0.307	0.282	474.1481	0.153
Off-Highway Tractors	2020	121	175	0.322507	0.271	3.21511	2.89032	0.005	0.14	0.129	472.9169	0.153
Off-Highway Tractors	2020	176	250	0.263453	0.221	1.1813	2.57547	0.005	0.086	0.079	470.943	0.152
Off-Highway Tractors	2020	501	750	0.239679	0.201	1.13143	2.04663	0.005	0.076	0.07	471.8151	0.153
Off-Highway Tractors	2020	751	1000	0.178457	0.15	1.02156	2.39599	0.005	0.063	0.058	472.0545	0.153
Off-Highway Tractors	2021	51	120	0.469894	0.395	3.74258	3.77306	0.005	0.261	0.24	474.5155	0.153
Off-Highway Tractors	2021	121	175	0.307902	0.259	3.21953	2.65962	0.005	0.129	0.118	472.9236	0.153
Off-Highway Tractors	2021	176	250	0.237665	0.2	1.16179	2.11341	0.005	0.072	0.067	471.0028	0.152
Off-Highway Tractors	2021	501	750	0.215694	0.181	1.12237	1.71505	0.005	0.063	0.058	471.8056	0.153
Off-Highway Tractors	2021	751	1000	0.190478	0.16	1.0331	2.41401	0.005	0.064	0.059	472.0545	0.153
Off-Highway Tractors	2022	51	120	0.414344	0.348	3.70994	3.39986	0.005	0.219	0.202	475.2338	0.154
Off-Highway Tractors	2022	121	175	0.275155	0.231	3.18586	2.23877	0.005	0.107	0.099	472.8111	0.153
Off-Highway Tractors	2022	176	250	0.213642	0.18	1.14284	1.73242	0.005	0.06	0.055	471.1313	0.152
Off-Highway Tractors	2022	501	750	0.20345	0.171	1.12111	1.43309	0.005	0.055	0.05	471.939	0.153
Off-Highway Tractors	2022	751	1000	0.202228	0.17	1.04437	2.43162	0.005	0.066	0.06	472.0545	0.153
Off-Highway Tractors	2023	51	120	0.37642	0.316	3.68654	3.09527	0.005	0.187	0.172	476.0871	0.154
Off-Highway Tractors	2023	121	175	0.239199	0.201	3.14329	1.78476	0.005	0.085	0.079	472.9962	0.153
Off-Highway Tractors	2023	176	250	0.20356	0.171	1.13796	1.49148	0.005	0.053	0.049	470.845	0.152
Off-Highway Tractors	2023	501	750	0.199838	0.168	1.12418	1.28868	0.005	0.051	0.047	471.9321	0.153
Off-Highway Tractors	2023	751	1000	0.213709	0.18	1.05538	2.44883	0.005	0.067	0.062	472.0545	0.153
Off-Highway Tractors	2024	51	120	0.359218	0.302	3.69095	2.94932	0.005	0.171	0.157	476.3711	0.154
Off-Highway Tractors	2024	121	175	0.21727	0.183	3.1328	1.49579	0.005	0.071	0.066	473.097	0.153
Off-Highway Tractors	2024	176	250	0.200963	0.169	1.13461	1.37732	0.005	0.049	0.045	470.6894	0.152
Off-Highway Tractors	2024	501	750	0.200706	0.169	1.13006	1.23477	0.005	0.048	0.044	471.9247	0.153
Off-Highway Tractors	2024	751	1000	0.22492	0.189	1.06613	2.46563	0.005	0.068	0.063	472.0545	0.153
Off-Highway Tractors	2025	51	120	0.32831	0.276	3.66914	2.70745	0.005	0.144	0.132	476.9211	0.154
Off-Highway Tractors	2025	121	175	0.208537	0.175	3.14246	1.34858	0.005	0.065	0.059	473.3021	0.153
Off-Highway Tractors	2025	176	250	0.183862	0.154	1.13017	1.11624	0.005	0.04	0.037	470.861	0.152
Off-Highway Tractors	2025	501	750	0.199094	0.167	1.13452	1.11804	0.005	0.045	0.041	471.9169	0.153
Off-Highway Tractors	2025	751	1000	0.235862	0.198	1.07663	2.48203	0.005	0.069	0.064	472.0545	0.153
Off-Highway Tractors	2030	51	120	1.683	0.518	3.944	2.959	0.006	0.175	0.175	568.299	0.046
Off-Highway Tractors	2030	121	175	1.689	0.373	3.435	1.916	0.006	0.104	0.104	568.299	0.033
Off-Highway Tractors	2030	176	250	1.423	0.315	1.286	1.715	0.006	0.064	0.064	568.299	0.028
Off-Highway Tractors	2030	501	750	5.992	0.304	1.351	1.59	0.005	0.06	0.06	568.299	0.027
Off-Highway Tractors	2030	751	1000	8.981	0.318	1.409	3.569	0.005	0.078	0.078	568.3	0.028
Off-Highway Tractors	2035	51	120	1.359	0.418	3.902	2.35	0.006	0.107	0.107	568.299	0.037
Off-Highway Tractors	2035	121	175	1.361	0.301	3.421	1.252	0.006	0.065	0.065	568.299	0.027
Off-Highway Tractors	2035	176	250	1.211	0.268	1.232	1.115	0.006	0.042	0.042	568.299	0.024
Off-Highway Tractors	2035	501	750	5.163	0.262	1.238	1.045	0.005	0.04	0.04	568.299	0.023
Off-Highway Tractors	2035	751	1000	7.617	0.269	1.268	3.116	0.005	0.056	0.056	568.299	0.024
Off-Highway Tractors	2040	51	120	1.176	0.362	3.878	1.976	0.006	0.067	0.067	568.299	0.032
Off-Highway Tractors	2040	121	175	1.162	0.257	3.412	0.836	0.006	0.041	0.041	568.299	0.023
Off-Highway Tractors	2040	176	250	1.073	0.237	1.198	0.747	0.006	0.028	0.028	568.299	0.021

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Off-Highway Tractors	2040	501	750	4.612	0.234	1.164	0.71	0.005	0.027	0.027	568.299	0.021
Off-Highway Tractors	2040	751	1000	6.743	0.238	1.183	2.844	0.005	0.042	0.042	568.299	0.021
Off-Highway Trucks	1990	121	175	6.457	2.005	5.36	15.394	0.758	1.133	1.133	568.299	0.18
Off-Highway Trucks	1990	176	250	8.597	2.005	5.36	15.394	0.758	1.133	1.133	568.299	0.18
Off-Highway Trucks	1990	251	500	12.319	1.757	12.538	14.499	0.662	0.959	0.959	568.299	0.158
Off-Highway Trucks	1990	501	750	19.982	1.757	12.538	14.499	1.018	0.976	0.976	568.299	0.158
Off-Highway Trucks	1990	751	1000	28.084	1.746	12.538	14.499	1.018	0.963	0.963	568.3	0.157
Off-Highway Trucks	2000	121	175	4.115	1.278	3.772	9.57	0.057	0.548	0.548	568.299	0.115
Off-Highway Trucks	2000	176	250	4.454	1.039	2.896	9.178	0.057	0.425	0.425	568.299	0.093
Off-Highway Trucks	2000	251	500	6.594	0.94	4.214	8.675	0.05	0.376	0.376	568.299	0.084
Off-Highway Trucks	2000	501	750	10.696	0.94	4.214	8.675	0.052	0.376	0.376	568.299	0.084
Off-Highway Trucks	2000	751	1000	16.13	1.003	4.878	9.339	0.052	0.355	0.355	568.3	0.09
Off-Highway Trucks	2005	121	175	3.462	1.075	3.531	8.1	0.057	0.481	0.481	568.299	0.097
Off-Highway Trucks	2005	176	250	3.21	0.748	1.978	7.652	0.057	0.291	0.291	568.299	0.067
Off-Highway Trucks	2005	251	500	4.695	0.669	2.332	6.848	0.05	0.26	0.26	568.299	0.06
Off-Highway Trucks	2005	501	750	7.697	0.677	2.33	7.052	0.052	0.264	0.264	568.299	0.061
Off-Highway Trucks	2005	751	1000	12.436	0.773	2.812	8.177	0.052	0.266	0.266	568.299	0.069
Off-Highway Trucks	2010	121	175	0.758703	0.638	3.51002	6.59182	0.005	0.39	0.359	522.6455	0.152
Off-Highway Trucks	2010	176	250	0.657432	0.552	2.13151	6.86617	0.005	0.29	0.267	521.8781	0.152
Off-Highway Trucks	2010	251	500	0.5118	0.43	2.32222	5.52051	0.005	0.213	0.196	528.8078	0.154
Off-Highway Trucks	2010	501	750	0.633984	0.533	3.68555	6.54487	0.005	0.276	0.254	530.4366	0.154
Off-Highway Trucks	2010	751	1000	0.549873	0.462	2.05613	7.15365	0.005	0.211	0.194	526.5915	0.153
Off-Highway Trucks	2011	121	175	0.704506	0.592	3.48667	6.13879	0.005	0.357	0.328	521.3222	0.152
Off-Highway Trucks	2011	176	250	0.640546	0.538	2.08881	6.53722	0.005	0.278	0.256	520.1539	0.152
Off-Highway Trucks	2011	251	500	0.515485	0.433	2.27798	5.39802	0.005	0.21	0.193	527.2602	0.154
Off-Highway Trucks	2011	501	750	0.643792	0.541	3.68121	6.51376	0.005	0.276	0.254	529.0143	0.154
Off-Highway Trucks	2011	751	1000	0.55014	0.462	2.03783	7.09609	0.005	0.211	0.194	524.7459	0.153
Off-Highway Trucks	2012	121	175	0.704248	0.592	3.51164	6.0668	0.005	0.354	0.325	519.901	0.152
Off-Highway Trucks	2012	176	250	0.646155	0.543	2.1013	6.43814	0.005	0.277	0.255	518.7133	0.152
Off-Highway Trucks	2012	251	500	0.525914	0.442	2.29017	5.37678	0.005	0.21	0.193	525.9398	0.154
Off-Highway Trucks	2012	501	750	0.661317	0.556	3.73128	6.55684	0.005	0.28	0.258	527.6141	0.154
Off-Highway Trucks	2012	751	1000	0.55909	0.47	2.05327	7.10377	0.005	0.213	0.196	523.3305	0.153
Off-Highway Trucks	2013	121	175	0.671819	0.565	3.51059	5.78297	0.005	0.33	0.304	517.0124	0.152
Off-Highway Trucks	2013	176	250	0.623589	0.524	2.04802	6.05816	0.005	0.263	0.242	515.8273	0.152
Off-Highway Trucks	2013	251	500	0.502477	0.422	2.17762	5.06239	0.005	0.197	0.181	523.5459	0.154
Off-Highway Trucks	2013	501	750	0.645495	0.542	3.55888	6.30864	0.005	0.268	0.247	525.1075	0.154
Off-Highway Trucks	2013	751	1000	0.543085	0.456	1.9094	6.89277	0.005	0.205	0.189	520.5876	0.153
Off-Highway Trucks	2014	121	175	0.610195	0.513	3.47308	5.21922	0.005	0.292	0.269	514.0574	0.152
Off-Highway Trucks	2014	176	250	0.574728	0.483	1.93163	5.4411	0.005	0.235	0.217	512.8333	0.152
Off-Highway Trucks	2014	251	500	0.468214	0.393	2.07518	4.68575	0.005	0.18	0.165	521.0573	0.154
Off-Highway Trucks	2014	501	750	0.576983	0.485	2.95299	5.57816	0.005	0.231	0.212	521.2295	0.154
Off-Highway Trucks	2014	751	1000	0.493307	0.415	1.77934	6.36534	0.005	0.187	0.172	516.9385	0.153
Off-Highway Trucks	2015	121	175	0.604782	0.508	3.48853	5.10449	0.005	0.284	0.262	508.7011	0.152
Off-Highway Trucks	2015	176	250	0.563373	0.473	1.89994	5.24228	0.005	0.227	0.209	507.8087	0.152
Off-Highway Trucks	2015	251	500	0.457555	0.384	2.0367	4.52794	0.005	0.173	0.159	515.8419	0.154
Off-Highway Trucks	2015	501	750	0.537539	0.452	2.61969	5.12427	0.005	0.208	0.192	514.6436	0.154
Off-Highway Trucks	2015	751	1000	0.489174	0.411	1.77206	6.28012	0.005	0.185	0.17	511.1369	0.153
Off-Highway Trucks	2016	121	175	0.562854	0.473	3.45883	4.64707	0.005	0.258	0.237	503.5515	0.152
Off-Highway Trucks	2016	176	250	0.530487	0.446	1.82377	4.82646	0.005	0.208	0.191	502.4732	0.152
Off-Highway Trucks	2016	251	500	0.418147	0.351	1.88523	4.04798	0.005	0.153	0.141	509.8604	0.154
Off-Highway Trucks	2016	501	750	0.497396	0.418	2.43646	4.64247	0.005	0.187	0.172	508.3916	0.153
Off-Highway Trucks	2016	751	1000	0.467579	0.393	1.70739	6.0352	0.005	0.175	0.161	505.7218	0.153
Off-Highway Trucks	2017	121	175	0.525186	0.441	3.43636	4.23649	0.005	0.233	0.215	495.924	0.152
Off-Highway Trucks	2017	176	250	0.496493	0.417	1.75281	4.36785	0.005	0.189	0.174	494.7935	0.152
Off-Highway Trucks	2017	251	500	0.387096	0.325	1.74773	3.66841	0.005	0.136	0.125	501.4368	0.154
Off-Highway Trucks	2017	501	750	0.468516	0.394	2.35644	4.25656	0.005	0.17	0.157	500.1987	0.153
Off-Highway Trucks	2017	751	1000	0.430867	0.362	1.54555	5.65254	0.005	0.159	0.146	497.1154	0.152
Off-Highway Trucks	2018	121	175	0.456313	0.383	3.38333	3.54273	0.005	0.192	0.177	488.0439	0.152
Off-Highway Trucks	2018	176	250	0.405448	0.341	1.54329	3.45071	0.005	0.141	0.13	487.6353	0.152
Off-Highway Trucks	2018	251	500	0.341588	0.287	1.5595	3.08995	0.005	0.113	0.104	493.5059	0.154
Off-Highway Trucks	2018	501	750	0.413946	0.348	2.17619	3.69054	0.005	0.143	0.132	492.1136	0.153
Off-Highway Trucks	2018	751	1000	0.352998	0.297	1.35734	4.85753	0.005	0.126	0.116	487.7902	0.152
Off-Highway Trucks	2019	121	175	0.38382	0.323	3.32598	2.82463	0.005	0.149	0.137	480.3623	0.152
Off-Highway Trucks	2019	176	250	0.365362	0.307	1.46079	2.98481	0.005	0.119	0.109	480.1703	0.152
Off-Highway Trucks	2019	251	500	0.313575	0.263	1.48346	2.66851	0.005	0.097	0.089	485.3832	0.154
Off-Highway Trucks	2019	501	750	0.389037	0.327	2.04129	3.32044	0.005	0.129	0.118	483.2182	0.153
Off-Highway Trucks	2019	751	1000	0.351304	0.295	1.3561	4.76495	0.005	0.124	0.114	480.3479	0.152
Off-Highway Trucks	2020	121	175	0.36879	0.31	3.3388	2.62769	0.005	0.137	0.126	470.0967	0.152
Off-Highway Trucks	2020	176	250	0.327003	0.275	1.39106	2.50726	0.005	0.098	0.09	470.1675	0.152
Off-Highway Trucks	2020	251	500	0.292906	0.246	1.41417	2.34677	0.005	0.086	0.079	474.5787	0.153
Off-Highway Trucks	2020	501	750	0.371665	0.312	2.02683	3.05816	0.005	0.12	0.11	472.7499	0.153

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Off-Highway Trucks	2020	751	1000	0.360605	0.303	1.37163	4.79365	0.005	0.125	0.115	469.8892	0.152
Off-Highway Trucks	2021	121	175	0.331341	0.278	3.32405	2.24626	0.005	0.113	0.104	470.2898	0.152
Off-Highway Trucks	2021	176	250	0.29675	0.249	1.34839	2.10869	0.005	0.082	0.076	470.1932	0.152
Off-Highway Trucks	2021	251	500	0.267636	0.225	1.33781	1.95357	0.005	0.072	0.066	474.542	0.153
Off-Highway Trucks	2021	501	750	0.348975	0.293	1.93522	2.66798	0.005	0.106	0.098	472.991	0.153
Off-Highway Trucks	2021	751	1000	0.304392	0.256	1.25154	4.15817	0.005	0.099	0.091	471.0552	0.152
Off-Highway Trucks	2022	121	175	0.286556	0.241	3.28383	1.81091	0.005	0.088	0.081	470.1813	0.152
Off-Highway Trucks	2022	176	250	0.255309	0.215	1.27852	1.61794	0.005	0.064	0.059	469.6151	0.152
Off-Highway Trucks	2022	251	500	0.233409	0.196	1.24664	1.48975	0.005	0.054	0.05	474.7136	0.154
Off-Highway Trucks	2022	501	750	0.313397	0.263	1.74571	2.26799	0.005	0.088	0.081	473.9773	0.153
Off-Highway Trucks	2022	751	1000	0.27833	0.234	1.2141	3.84239	0.005	0.086	0.079	472.3437	0.153
Off-Highway Trucks	2023	121	175	0.280582	0.236	3.30432	1.68277	0.005	0.081	0.074	470.2917	0.152
Off-Highway Trucks	2023	176	250	0.24623	0.207	1.27325	1.45572	0.005	0.059	0.054	469.4464	0.152
Off-Highway Trucks	2023	251	500	0.222566	0.187	1.22057	1.32428	0.005	0.048	0.044	475.0488	0.154
Off-Highway Trucks	2023	501	750	0.312722	0.263	1.71923	2.18151	0.005	0.084	0.078	473.7666	0.153
Off-Highway Trucks	2023	751	1000	0.254284	0.214	1.19398	3.54374	0.005	0.074	0.068	472.8574	0.153
Off-Highway Trucks	2024	121	175	0.266426	0.224	3.3248	1.49436	0.005	0.07	0.064	470.2638	0.152
Off-Highway Trucks	2024	176	250	0.240426	0.202	1.25915	1.35543	0.005	0.054	0.05	469.1126	0.152
Off-Highway Trucks	2024	251	500	0.219543	0.184	1.20637	1.23518	0.005	0.044	0.041	475.2203	0.154
Off-Highway Trucks	2024	501	750	0.308071	0.259	1.64986	2.08486	0.005	0.079	0.073	473.8394	0.153
Off-Highway Trucks	2024	751	1000	0.248432	0.209	1.19994	3.43925	0.005	0.069	0.064	473.0969	0.153
Off-Highway Trucks	2025	121	175	0.254265	0.214	3.32765	1.3354	0.005	0.065	0.06	470.0035	0.152
Off-Highway Trucks	2025	176	250	0.220008	0.185	1.21268	1.12886	0.005	0.043	0.04	469.1258	0.152
Off-Highway Trucks	2025	251	500	0.210955	0.177	1.18233	1.06379	0.005	0.038	0.035	474.9697	0.154
Off-Highway Trucks	2025	501	750	0.280009	0.235	1.57807	1.75055	0.005	0.066	0.061	476.314	0.154
Off-Highway Trucks	2025	751	1000	0.222695	0.187	1.14565	3.13521	0.005	0.057	0.052	473.3693	0.153
Off-Highway Trucks	2030	121	175	0.739	0.229	3.425	0.563	0.006	0.025	0.025	568.299	0.02
Off-Highway Trucks	2030	176	250	0.932	0.217	1.166	0.481	0.006	0.017	0.017	568.3	0.019
Off-Highway Trucks	2030	251	500	1.52	0.216	1.104	0.458	0.005	0.017	0.017	568.299	0.019
Off-Highway Trucks	2030	501	750	2.467	0.217	1.104	0.463	0.005	0.017	0.017	568.299	0.019
Off-Highway Trucks	2030	751	1000	3.55	0.22	1.107	2.651	0.005	0.033	0.033	568.3	0.019
Off-Highway Trucks	2035	121	175	0.68	0.211	3.425	0.38	0.006	0.016	0.016	568.299	0.019
Off-Highway Trucks	2035	176	250	0.894	0.208	1.167	0.353	0.006	0.013	0.013	568.299	0.018
Off-Highway Trucks	2035	251	500	1.461	0.208	1.105	0.348	0.005	0.013	0.013	568.299	0.018
Off-Highway Trucks	2035	501	750	2.371	0.208	1.105	0.348	0.005	0.013	0.013	568.299	0.018
Off-Highway Trucks	2035	751	1000	3.368	0.209	1.105	2.565	0.005	0.028	0.028	568.299	0.018
Off-Highway Trucks	2040	121	175	0.662	0.205	3.426	0.318	0.006	0.013	0.013	568.299	0.018
Off-Highway Trucks	2040	176	250	0.877	0.204	1.167	0.305	0.006	0.012	0.012	568.3	0.018
Off-Highway Trucks	2040	251	500	1.434	0.204	1.105	0.305	0.005	0.012	0.012	568.299	0.018
Off-Highway Trucks	2040	501	750	2.327	0.204	1.105	0.305	0.005	0.012	0.012	568.299	0.018
Off-Highway Trucks	2040	751	1000	3.296	0.205	1.105	2.532	0.005	0.026	0.026	568.299	0.018
Other Construction Equipment	1990	6	15	5.348	1.804	4.999	9.999	1.049	0.975	0.975	568.3	0.162
Other Construction Equipment	1990	16	25	8.578	2.213	4.999	6.919	0.855	0.741	0.741	568.299	0.199
Other Construction Equipment	1990	26	50	39.33	4.791	9.693	7.947	0.871	1.267	1.267	568.299	0.432
Other Construction Equipment	1990	51	120	56.637	2.388	5.782	15.176	0.791	1.343	1.343	568.299	0.215
Other Construction Equipment	1990	121	175	60.86	1.948	5.191	15.112	0.758	1.085	1.085	568.299	0.175
Other Construction Equipment	1990	251	500	128.26	1.72	11.412	14.332	0.662	0.927	0.927	568.299	0.155
Other Construction Equipment	2000	6	15	4.374	1.475	4.49	8.242	0.079	0.676	0.676	568.299	0.133
Other Construction Equipment	2000	16	25	7.591	1.958	4.53	6.358	0.065	0.563	0.563	568.3	0.176
Other Construction Equipment	2000	26	50	30.619	3.73	7.85	6.784	0.066	0.816	0.816	568.299	0.336
Other Construction Equipment	2000	51	120	38.817	1.636	4.283	9.507	0.06	0.786	0.786	568.3	0.147
Other Construction Equipment	2000	121	175	34.573	1.106	3.417	8.749	0.057	0.453	0.453	568.299	0.099
Other Construction Equipment	2000	251	500	61.92	0.83	3.67	8.069	0.05	0.321	0.321	568.299	0.074
Other Construction Equipment	2005	6	15	2.271	0.766	3.469	5.228	0.079	0.361	0.361	568.299	0.069
Other Construction Equipment	2005	16	25	3.564	0.919	2.642	5.412	0.065	0.347	0.347	568.3	0.082
Other Construction Equipment	2005	26	50	26.204	3.192	7.102	6.226	0.066	0.739	0.739	568.299	0.288
Other Construction Equipment	2005	51	120	33.145	1.397	4.043	8.067	0.06	0.725	0.725	568.299	0.126
Other Construction Equipment	2005	121	175	28.235	0.903	3.208	7.379	0.057	0.392	0.392	568.299	0.081
Other Construction Equipment	2005	251	500	41.035	0.55	2.051	6.334	0.05	0.22	0.22	568.299	0.049
Other Construction Equipment	2010	6	15	1.52864	1.284	5.29076	5.55407	0.005	0.497	0.457	587.5495	0.171
Other Construction Equipment	2010	16	25	1.52864	1.284	5.29076	5.55407	0.005	0.497	0.457	587.5495	0.171
Other Construction Equipment	2010	26	50	1.52864	1.284	5.29076	5.55407	0.005	0.497	0.457	587.5495	0.171
Other Construction Equipment	2010	51	120	0.92739	0.779	3.89903	7.11752	0.005	0.549	0.505	523.1661	0.152
Other Construction Equipment	2010	121	175	0.769602	0.647	3.47406	7.30949	0.005	0.38	0.349	522.1244	0.152
Other Construction Equipment	2010	251	500	0.480247	0.404	3.20434	5.78616	0.005	0.219	0.201	530.8514	0.155
Other Construction Equipment	2011	6	15	1.531741	1.287	5.36962	5.5686	0.005	0.499	0.459	586.0703	0.171
Other Construction Equipment	2011	16	25	1.531741	1.287	5.36962	5.5686	0.005	0.499	0.459	586.0703	0.171
Other Construction Equipment	2011	26	50	1.531741	1.287	5.36962	5.5686	0.005	0.499	0.459	586.0703	0.171
Other Construction Equipment	2011	51	120	0.909764	0.764	3.89723	6.98332	0.005	0.542	0.498	521.5282	0.152
Other Construction Equipment	2011	121	175	0.725704	0.61	3.41832	6.92098	0.005	0.361	0.332	520.664	0.152
Other Construction Equipment	2011	251	500	0.449646	0.378	2.91483	5.42766	0.005	0.204	0.188	529.9639	0.155

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Other Construction Equipment	2012	6	15	1.548775	1.301	5.47004	5.58169	0.005	0.503	0.463	584.6639	0.171
Other Construction Equipment	2012	16	25	1.548775	1.301	5.47004	5.58169	0.005	0.503	0.463	584.6639	0.171
Other Construction Equipment	2012	26	50	1.548775	1.301	5.47004	5.58169	0.005	0.503	0.463	584.6639	0.171
Other Construction Equipment	2012	51	120	0.910724	0.765	3.91674	6.95644	0.005	0.543	0.5	519.9075	0.152
Other Construction Equipment	2012	121	175	0.730754	0.614	3.4429	6.91612	0.005	0.363	0.334	519.3479	0.152
Other Construction Equipment	2012	251	500	0.458869	0.386	2.95715	5.42334	0.005	0.206	0.189	528.6246	0.155
Other Construction Equipment	2013	6	15	1.571874	1.321	5.57699	5.60361	0.005	0.509	0.468	581.8471	0.171
Other Construction Equipment	2013	16	25	1.571874	1.321	5.57699	5.60361	0.005	0.509	0.468	581.8471	0.171
Other Construction Equipment	2013	26	50	1.571874	1.321	5.57699	5.60361	0.005	0.509	0.468	581.8471	0.171
Other Construction Equipment	2013	51	120	0.892781	0.75	3.91866	6.82868	0.005	0.532	0.489	517.5939	0.152
Other Construction Equipment	2013	121	175	0.708053	0.595	3.41257	6.69102	0.005	0.351	0.323	516.9857	0.152
Other Construction Equipment	2013	251	500	0.440093	0.37	2.79519	5.14317	0.005	0.194	0.179	525.1086	0.154
Other Construction Equipment	2014	6	15	1.547867	1.301	5.60223	5.56546	0.005	0.502	0.462	578.9591	0.171
Other Construction Equipment	2014	16	25	1.547867	1.301	5.60223	5.56546	0.005	0.502	0.462	578.9591	0.171
Other Construction Equipment	2014	26	50	1.547867	1.301	5.60223	5.56546	0.005	0.502	0.462	578.9591	0.171
Other Construction Equipment	2014	51	120	0.866935	0.728	3.90558	6.63282	0.005	0.518	0.476	515.2847	0.152
Other Construction Equipment	2014	121	175	0.674237	0.567	3.38516	6.37185	0.005	0.333	0.307	514.5518	0.152
Other Construction Equipment	2014	251	500	0.392211	0.33	2.47571	4.5608	0.005	0.168	0.155	520.9444	0.154
Other Construction Equipment	2015	6	15	1.557753	1.309	5.68113	5.56397	0.005	0.503	0.463	573.0198	0.171
Other Construction Equipment	2015	16	25	1.557753	1.309	5.68113	5.56397	0.005	0.503	0.463	573.0198	0.171
Other Construction Equipment	2015	26	50	1.557753	1.309	5.68113	5.56397	0.005	0.503	0.463	573.0198	0.171
Other Construction Equipment	2015	51	120	0.860334	0.723	3.9159	6.53649	0.005	0.512	0.471	510.1706	0.152
Other Construction Equipment	2015	121	175	0.66302	0.557	3.38183	6.2305	0.005	0.326	0.3	509.3069	0.152
Other Construction Equipment	2015	251	500	0.386006	0.324	2.40724	4.41519	0.005	0.163	0.15	515.1953	0.154
Other Construction Equipment	2016	6	15	1.524032	1.281	5.67687	5.49921	0.005	0.492	0.453	566.9782	0.171
Other Construction Equipment	2016	16	25	1.524032	1.281	5.67687	5.49921	0.005	0.492	0.453	566.9782	0.171
Other Construction Equipment	2016	26	50	1.524032	1.281	5.67687	5.49921	0.005	0.492	0.453	566.9782	0.171
Other Construction Equipment	2016	51	120	0.837049	0.703	3.90894	6.32533	0.005	0.496	0.456	505.349	0.152
Other Construction Equipment	2016	121	175	0.62413	0.524	3.35672	5.81763	0.005	0.306	0.281	503.9641	0.152
Other Construction Equipment	2016	251	500	0.366005	0.308	2.28488	4.08972	0.005	0.151	0.139	509.7062	0.154
Other Construction Equipment	2017	6	15	1.480652	1.244	5.65509	5.42066	0.005	0.477	0.439	558.0007	0.171
Other Construction Equipment	2017	16	25	1.480652	1.244	5.65509	5.42066	0.005	0.477	0.439	558.0007	0.171
Other Construction Equipment	2017	26	50	1.480652	1.244	5.65509	5.42066	0.005	0.477	0.439	558.0007	0.171
Other Construction Equipment	2017	51	120	0.804436	0.676	3.88542	6.06955	0.005	0.475	0.437	497.3832	0.152
Other Construction Equipment	2017	121	175	0.595557	0.5	3.33767	5.49424	0.005	0.29	0.267	495.9311	0.152
Other Construction Equipment	2017	251	500	0.3449	0.29	2.12114	3.77706	0.005	0.138	0.127	501.1295	0.154
Other Construction Equipment	2018	6	15	1.39068	1.169	5.54108	5.27161	0.005	0.449	0.413	548.9388	0.171
Other Construction Equipment	2018	16	25	1.39068	1.169	5.54108	5.27161	0.005	0.449	0.413	548.9388	0.171
Other Construction Equipment	2018	26	50	1.39068	1.169	5.54108	5.27161	0.005	0.449	0.413	548.9388	0.171
Other Construction Equipment	2018	51	120	0.711314	0.598	3.79863	5.44123	0.005	0.417	0.383	490.018	0.153
Other Construction Equipment	2018	121	175	0.519398	0.436	3.26346	4.75499	0.005	0.25	0.23	487.9859	0.152
Other Construction Equipment	2018	251	500	0.298599	0.251	1.81261	3.16693	0.005	0.115	0.105	493.36	0.154
Other Construction Equipment	2019	6	15	1.370834	1.152	5.54123	5.20338	0.005	0.437	0.402	539.7349	0.171
Other Construction Equipment	2019	16	25	1.370834	1.152	5.54123	5.20338	0.005	0.437	0.402	539.7349	0.171
Other Construction Equipment	2019	26	50	1.370834	1.152	5.54123	5.20338	0.005	0.437	0.402	539.7349	0.171
Other Construction Equipment	2019	51	120	0.655004	0.55	3.7535	5.04831	0.005	0.379	0.349	482.2177	0.153
Other Construction Equipment	2019	121	175	0.490382	0.412	3.25619	4.4331	0.005	0.233	0.215	480.4518	0.152
Other Construction Equipment	2019	251	500	0.277883	0.233	1.66739	2.85547	0.005	0.103	0.094	485.4127	0.154
Other Construction Equipment	2020	6	15	1.276029	1.072	5.40446	5.03626	0.005	0.405	0.373	527.9656	0.171
Other Construction Equipment	2020	16	25	1.276029	1.072	5.40446	5.03626	0.005	0.405	0.373	527.9656	0.171
Other Construction Equipment	2020	26	50	1.276029	1.072	5.40446	5.03626	0.005	0.405	0.373	527.9656	0.171
Other Construction Equipment	2020	51	120	0.617777	0.519	3.73189	4.7712	0.005	0.354	0.325	472.2162	0.153
Other Construction Equipment	2020	121	175	0.461441	0.388	3.23528	4.11203	0.005	0.217	0.2	469.9837	0.152
Other Construction Equipment	2020	251	500	0.266788	0.224	1.6338	2.63672	0.005	0.096	0.088	475.2326	0.154
Other Construction Equipment	2021	6	15	1.201423	1.01	5.30749	4.90234	0.005	0.382	0.351	527.7834	0.171
Other Construction Equipment	2021	16	25	1.201423	1.01	5.30749	4.90234	0.005	0.382	0.351	527.7834	0.171
Other Construction Equipment	2021	26	50	1.201423	1.01	5.30749	4.90234	0.005	0.382	0.351	527.7834	0.171
Other Construction Equipment	2021	51	120	0.573212	0.482	3.70304	4.4558	0.005	0.323	0.298	472.275	0.153
Other Construction Equipment	2021	121	175	0.392185	0.33	3.18275	3.43847	0.005	0.18	0.165	469.7642	0.152
Other Construction Equipment	2021	251	500	0.256006	0.215	1.59874	2.42822	0.005	0.09	0.082	475.2124	0.154
Other Construction Equipment	2022	6	15	1.094466	0.92	5.16732	4.74117	0.005	0.348	0.32	529.1825	0.171
Other Construction Equipment	2022	16	25	1.094466	0.92	5.16732	4.74117	0.005	0.348	0.32	529.1825	0.171
Other Construction Equipment	2022	26	50	1.094466	0.92	5.16732	4.74117	0.005	0.348	0.32	529.1825	0.171
Other Construction Equipment	2022	51	120	0.523663	0.44	3.66623	4.09846	0.005	0.288	0.265	472.3178	0.153
Other Construction Equipment	2022	121	175	0.351187	0.295	3.15539	2.99437	0.005	0.156	0.144	469.6126	0.152
Other Construction Equipment	2022	251	500	0.223796	0.188	1.43828	1.97544	0.005	0.074	0.068	475.9983	0.154
Other Construction Equipment	2023	6	15	1.030598	0.866	5.07368	4.59446	0.005	0.322	0.296	529.3389	0.171
Other Construction Equipment	2023	16	25	1.030598	0.866	5.07368	4.59446	0.005	0.322	0.296	529.3389	0.171
Other Construction Equipment	2023	26	50	1.030598	0.866	5.07368	4.59446	0.005	0.322	0.296	529.3389	0.171
Other Construction Equipment	2023	51	120	0.482844	0.406	3.63188	3.79013	0.005	0.259	0.238	471.9899	0.153
Other Construction Equipment	2023	121	175	0.325455	0.273	3.14152	2.69821	0.005	0.14	0.129	469.5579	0.152

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Other Construction Equipment	2023	251	500	0.214667	0.18	1.39596	1.81226	0.005	0.069	0.063	476.1847	0.154
Other Construction Equipment	2024	6	15	0.984979	0.828	5.03181	4.51017	0.005	0.305	0.28	529.2094	0.171
Other Construction Equipment	2024	16	25	0.984979	0.828	5.03181	4.51017	0.005	0.305	0.28	529.2094	0.171
Other Construction Equipment	2024	26	50	0.984979	0.828	5.03181	4.51017	0.005	0.305	0.28	529.2094	0.171
Other Construction Equipment	2024	51	120	0.454266	0.382	3.61958	3.58173	0.005	0.237	0.218	472.1254	0.153
Other Construction Equipment	2024	121	175	0.310043	0.261	3.14951	2.52019	0.005	0.13	0.12	469.5445	0.152
Other Construction Equipment	2024	251	500	0.208244	0.175	1.38248	1.67692	0.005	0.064	0.059	476.4838	0.154
Other Construction Equipment	2025	6	15	0.901061	0.757	4.87388	4.30575	0.005	0.268	0.246	528.9535	0.171
Other Construction Equipment	2025	16	25	0.901061	0.757	4.87388	4.30575	0.005	0.268	0.246	528.9535	0.171
Other Construction Equipment	2025	26	50	0.901061	0.757	4.87388	4.30575	0.005	0.268	0.246	528.9535	0.171
Other Construction Equipment	2025	51	120	0.40612	0.341	3.58397	3.25221	0.005	0.203	0.187	472.7482	0.153
Other Construction Equipment	2025	121	175	0.279358	0.235	3.13647	2.16742	0.005	0.112	0.103	469.843	0.152
Other Construction Equipment	2025	251	500	0.200431	0.168	1.3582	1.55241	0.005	0.059	0.055	476.2959	0.154
Other Construction Equipment	2030	6	15	1.96	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Other Construction Equipment	2030	16	25	2.657	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Other Construction Equipment	2030	26	50	3.526	0.429	4.39	3.19	0.007	0.03	0.03	568.299	0.038
Other Construction Equipment	2030	51	120	5.348	0.225	3.538	1.576	0.006	0.027	0.027	568.3	0.02
Other Construction Equipment	2030	121	175	5.057	0.161	3.127	0.459	0.006	0.019	0.019	568.299	0.014
Other Construction Equipment	2030	251	500	11.523	0.154	1.028	0.391	0.005	0.014	0.014	568.3	0.013
Other Construction Equipment	2035	6	15	1.96	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Other Construction Equipment	2035	16	25	2.657	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Other Construction Equipment	2035	26	50	3.367	0.41	4.377	3.124	0.007	0.018	0.018	568.299	0.037
Other Construction Equipment	2035	51	120	5.057	0.213	3.536	1.474	0.006	0.017	0.017	568.299	0.019
Other Construction Equipment	2035	121	175	4.686	0.15	3.128	0.334	0.006	0.013	0.013	568.299	0.013
Other Construction Equipment	2035	251	500	11.034	0.147	1.029	0.311	0.005	0.011	0.011	568.299	0.013
Other Construction Equipment	2040	6	15	1.96	0.661	3.47	4.142	0.008	0.161	0.161	568.3	0.059
Other Construction Equipment	2040	16	25	2.657	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Other Construction Equipment	2040	26	50	3.359	0.409	4.377	3.096	0.007	0.015	0.015	568.3	0.036
Other Construction Equipment	2040	51	120	4.992	0.21	3.536	1.441	0.006	0.014	0.014	568.299	0.018
Other Construction Equipment	2040	121	175	4.556	0.145	3.128	0.29	0.006	0.011	0.011	568.299	0.013
Other Construction Equipment	2040	251	500	10.825	0.145	1.029	0.282	0.005	0.01	0.01	568.299	0.013
Other General Industrial Equipment	1990	6	15	4.264	1.804	4.999	9.999	0.833	0.968	0.968	568.299	0.162
Other General Industrial Equipment	1990	16	25	12.555	2.213	4.999	6.919	0.679	0.735	0.735	568.299	0.199
Other General Industrial Equipment	1990	26	50	38.808	4.828	9.768	7.957	0.692	1.266	1.266	568.299	0.435
Other General Industrial Equipment	1990	51	120	54.2	2.363	5.72	14.962	0.628	1.331	1.331	568.299	0.213
Other General Industrial Equipment	1990	121	175	57.106	1.61	5.066	13.434	0.602	0.88	0.88	568.299	0.145
Other General Industrial Equipment	1990	176	250	80.71	1.61	5.066	13.434	0.602	0.88	0.88	568.299	0.145
Other General Industrial Equipment	1990	251	500	139.861	1.425	11.207	12.743	0.525	0.756	0.756	568.299	0.128
Other General Industrial Equipment	1990	501	750	230.516	1.425	11.207	12.743	0.538	0.756	0.756	568.299	0.128
Other General Industrial Equipment	1990	751	1000	293.256	1.417	11.207	12.743	0.538	0.746	0.746	568.299	0.127
Other General Industrial Equipment	2000	6	15	2.475	1.047	4.258	7.362	0.079	0.428	0.428	568.299	0.094
Other General Industrial Equipment	2000	16	25	5.83	1.027	4.322	6.284	0.064	0.431	0.431	568.299	0.092
Other General Industrial Equipment	2000	26	50	36.086	4.49	9.236	7.09	0.065	0.935	0.935	568.299	0.405
Other General Industrial Equipment	2000	51	120	43.196	1.883	4.733	10.664	0.059	0.91	0.91	568.299	0.169
Other General Industrial Equipment	2000	121	175	44.74	1.261	3.852	9.686	0.057	0.536	0.536	568.299	0.113
Other General Industrial Equipment	2000	176	250	53	1.057	3.072	9.325	0.057	0.438	0.438	568.299	0.095
Other General Industrial Equipment	2000	251	500	93.834	0.956	5.179	8.862	0.049	0.385	0.385	568.299	0.086
Other General Industrial Equipment	2000	501	750	154.656	0.956	5.179	8.862	0.051	0.385	0.385	568.3	0.086
Other General Industrial Equipment	2000	751	1000	214.063	1.034	5.791	9.479	0.051	0.385	0.385	568.299	0.093
Other General Industrial Equipment	2005	6	15	1.674	0.708	3.469	4.985	0.079	0.35	0.35	568.299	0.063
Other General Industrial Equipment	2005	16	25	4.288	0.755	2.4	5.226	0.064	0.315	0.315	568.299	0.068
Other General Industrial Equipment	2005	26	50	33.133	4.122	8.765	6.676	0.065	0.888	0.888	568.299	0.371
Other General Industrial Equipment	2005	51	120	37.812	1.649	4.418	9.041	0.059	0.867	0.867	568.299	0.148
Other General Industrial Equipment	2005	121	175	38.439	1.084	3.513	8.273	0.057	0.479	0.479	568.299	0.097
Other General Industrial Equipment	2005	176	250	38.228	0.762	2.065	7.795	0.057	0.301	0.301	568.299	0.068
Other General Industrial Equipment	2005	251	500	66.246	0.675	2.681	7.094	0.049	0.269	0.269	568.299	0.06
Other General Industrial Equipment	2005	501	750	110.94	0.686	2.681	7.252	0.051	0.272	0.272	568.3	0.061
Other General Industrial Equipment	2005	751	1000	166.893	0.806	3.276	8.322	0.051	0.28	0.28	568.299	0.072
Other General Industrial Equipment	2010	6	15	1.873274	1.574	6.00712	5.68505	0.005	0.563	0.518	584.6401	0.17
Other General Industrial Equipment	2010	16	25	1.873274	1.574	6.00712	5.68505	0.005	0.563	0.518	584.6401	0.17
Other General Industrial Equipment	2010	26	50	1.873274	1.574	6.00712	5.68505	0.005	0.563	0.518	584.6401	0.17
Other General Industrial Equipment	2010	51	120	1.01726	0.855	4.0773	7.36447	0.005	0.611	0.562	522.222	0.152
Other General Industrial Equipment	2010	121	175	0.746027	0.627	3.51505	7.0202	0.005	0.379	0.349	524.278	0.153
Other General Industrial Equipment	2010	176	250	0.769173	0.646	2.61803	8.04899	0.005	0.359	0.33	525.8035	0.153
Other General Industrial Equipment	2010	251	500	0.489206	0.411	2.96412	5.68219	0.005	0.219	0.202	525.4767	0.153
Other General Industrial Equipment	2010	501	750	0.368598	0.31	1.62081	4.78207	0.005	0.168	0.154	526.0709	0.153
Other General Industrial Equipment	2010	751	1000	0.368913	0.31	1.02418	6.10226	0.005	0.148	0.136	524.505	0.153
Other General Industrial Equipment	2011	6	15	1.86071	1.564	6.08575	5.69446	0.005	0.562	0.517	583.1785	0.17
Other General Industrial Equipment	2011	16	25	1.86071	1.564	6.08575	5.69446	0.005	0.562	0.517	583.1785	0.17
Other General Industrial Equipment	2011	26	50	1.86071	1.564	6.08575	5.69446	0.005	0.562	0.517	583.1785	0.17
Other General Industrial Equipment	2011	51	120	1.006419	0.846	4.08854	7.24885	0.005	0.609	0.56	520.9164	0.152

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Other General Industrial Equipment	2011	121	175	0.688559	0.579	3.47165	6.5273	0.005	0.352	0.324	522.9673	0.153
Other General Industrial Equipment	2011	176	250	0.679053	0.571	2.33422	7.30022	0.005	0.313	0.288	524.489	0.153
Other General Industrial Equipment	2011	251	500	0.467324	0.393	2.74249	5.42881	0.005	0.207	0.19	524.163	0.153
Other General Industrial Equipment	2011	501	750	0.373245	0.314	1.62791	4.72869	0.005	0.163	0.15	524.7557	0.153
Other General Industrial Equipment	2011	751	1000	0.37971	0.319	1.03813	6.1714	0.005	0.153	0.141	523.1938	0.153
Other General Industrial Equipment	2012	6	15	1.895405	1.593	6.24676	5.71254	0.005	0.569	0.524	581.7169	0.17
Other General Industrial Equipment	2012	16	25	1.895405	1.593	6.24676	5.71254	0.005	0.569	0.524	581.7169	0.17
Other General Industrial Equipment	2012	26	50	1.895405	1.593	6.24676	5.71254	0.005	0.569	0.524	581.7169	0.17
Other General Industrial Equipment	2012	51	120	1.008569	0.847	4.12133	7.21493	0.005	0.612	0.563	519.6109	0.152
Other General Industrial Equipment	2012	121	175	0.685664	0.576	3.49618	6.44491	0.005	0.349	0.321	521.6566	0.153
Other General Industrial Equipment	2012	176	250	0.675065	0.567	2.33594	7.14362	0.005	0.308	0.284	523.1745	0.153
Other General Industrial Equipment	2012	251	500	0.47625	0.4	2.75094	5.39821	0.005	0.207	0.19	522.8493	0.153
Other General Industrial Equipment	2012	501	750	0.379047	0.319	1.63473	4.69855	0.005	0.161	0.148	523.4405	0.153
Other General Industrial Equipment	2012	751	1000	0.390508	0.328	1.05208	6.24054	0.005	0.158	0.145	521.8825	0.153
Other General Industrial Equipment	2013	6	15	1.848739	1.553	6.26146	5.64536	0.005	0.556	0.511	578.7937	0.17
Other General Industrial Equipment	2013	16	25	1.848739	1.553	6.26146	5.64536	0.005	0.556	0.511	578.7937	0.17
Other General Industrial Equipment	2013	26	50	1.848739	1.553	6.26146	5.64536	0.005	0.556	0.511	578.7937	0.17
Other General Industrial Equipment	2013	51	120	0.982208	0.825	4.11871	7.03299	0.005	0.597	0.549	516.9998	0.152
Other General Industrial Equipment	2013	121	175	0.6403	0.538	3.4592	6.02319	0.005	0.324	0.298	519.0352	0.153
Other General Industrial Equipment	2013	176	250	0.609561	0.512	2.15134	6.51958	0.005	0.273	0.251	520.5455	0.153
Other General Industrial Equipment	2013	251	500	0.434695	0.365	2.62159	4.82071	0.005	0.183	0.168	520.2219	0.153
Other General Industrial Equipment	2013	501	750	0.344704	0.29	1.58393	4.12057	0.005	0.139	0.128	520.8102	0.153
Other General Industrial Equipment	2013	751	1000	0.401306	0.337	1.06602	6.30968	0.005	0.162	0.149	519.26	0.153
Other General Industrial Equipment	2014	6	15	1.810128	1.521	6.28785	5.58361	0.005	0.544	0.5	575.8705	0.17
Other General Industrial Equipment	2014	16	25	1.810128	1.521	6.28785	5.58361	0.005	0.544	0.5	575.8705	0.17
Other General Industrial Equipment	2014	26	50	1.810128	1.521	6.28785	5.58361	0.005	0.544	0.5	575.8705	0.17
Other General Industrial Equipment	2014	51	120	0.938561	0.789	4.09005	6.72277	0.005	0.574	0.528	514.3886	0.152
Other General Industrial Equipment	2014	121	175	0.621882	0.523	3.46929	5.79166	0.005	0.312	0.287	516.4138	0.153
Other General Industrial Equipment	2014	176	250	0.580321	0.488	2.05376	6.15263	0.005	0.255	0.234	517.9164	0.153
Other General Industrial Equipment	2014	251	500	0.422239	0.355	2.49943	4.56494	0.005	0.172	0.159	517.5945	0.153
Other General Industrial Equipment	2014	501	750	0.304364	0.256	1.48882	3.62195	0.005	0.115	0.106	518.1798	0.153
Other General Industrial Equipment	2014	751	1000	0.412103	0.346	1.07997	6.37883	0.005	0.167	0.153	516.6375	0.153
Other General Industrial Equipment	2015	6	15	1.779268	1.495	6.32452	5.52435	0.005	0.532	0.49	570.0241	0.17
Other General Industrial Equipment	2015	16	25	1.779268	1.495	6.32452	5.52435	0.005	0.532	0.49	570.0241	0.17
Other General Industrial Equipment	2015	26	50	1.779268	1.495	6.32452	5.52435	0.005	0.532	0.49	570.0241	0.17
Other General Industrial Equipment	2015	51	120	0.905303	0.761	4.0811	6.50163	0.005	0.553	0.509	509.1664	0.152
Other General Industrial Equipment	2015	121	175	0.589015	0.495	3.45434	5.3974	0.005	0.294	0.27	511.171	0.153
Other General Industrial Equipment	2015	176	250	0.538134	0.452	1.9257	5.64293	0.005	0.23	0.211	512.6584	0.153
Other General Industrial Equipment	2015	251	500	0.420225	0.353	2.43603	4.42481	0.005	0.167	0.154	512.3397	0.153
Other General Industrial Equipment	2015	501	750	0.298831	0.251	1.49062	3.36512	0.005	0.109	0.1	512.9191	0.153
Other General Industrial Equipment	2015	751	1000	0.422901	0.355	1.09391	6.44797	0.005	0.171	0.158	511.3924	0.153
Other General Industrial Equipment	2016	6	15	1.690474	1.42	6.25866	5.40705	0.005	0.506	0.466	564.1777	0.17
Other General Industrial Equipment	2016	16	25	1.690474	1.42	6.25866	5.40705	0.005	0.506	0.466	564.1777	0.17
Other General Industrial Equipment	2016	26	50	1.690474	1.42	6.25866	5.40705	0.005	0.506	0.466	564.1777	0.17
Other General Industrial Equipment	2016	51	120	0.851445	0.715	4.04541	6.14411	0.005	0.518	0.476	503.9442	0.152
Other General Industrial Equipment	2016	121	175	0.559455	0.47	3.43665	5.05466	0.005	0.276	0.254	505.9282	0.153
Other General Industrial Equipment	2016	176	250	0.519923	0.437	1.8667	5.40733	0.005	0.217	0.2	507.4004	0.153
Other General Industrial Equipment	2016	251	500	0.407021	0.342	2.36652	4.14966	0.005	0.159	0.146	507.085	0.153
Other General Industrial Equipment	2016	501	750	0.289084	0.243	1.49061	3.10202	0.005	0.1	0.092	507.6584	0.153
Other General Industrial Equipment	2016	751	1000	0.288345	0.242	1.04483	4.7462	0.005	0.112	0.103	506.1474	0.153
Other General Industrial Equipment	2017	6	15	1.605819	1.349	6.17923	5.27694	0.005	0.479	0.441	555.4081	0.17
Other General Industrial Equipment	2017	16	25	1.605819	1.349	6.17923	5.27694	0.005	0.479	0.441	555.4081	0.17
Other General Industrial Equipment	2017	26	50	1.605819	1.349	6.17923	5.27694	0.005	0.479	0.441	555.4081	0.17
Other General Industrial Equipment	2017	51	120	0.785454	0.66	3.99811	5.72138	0.005	0.47	0.433	496.1109	0.152
Other General Industrial Equipment	2017	121	175	0.520155	0.437	3.39928	4.53359	0.005	0.25	0.23	498.0641	0.153
Other General Industrial Equipment	2017	176	250	0.489435	0.411	1.78	5.02246	0.005	0.199	0.183	499.5133	0.153
Other General Industrial Equipment	2017	251	500	0.397215	0.334	2.36453	3.9491	0.005	0.152	0.14	499.2028	0.153
Other General Industrial Equipment	2017	501	750	0.260833	0.219	1.48016	2.59187	0.005	0.086	0.079	499.7673	0.153
Other General Industrial Equipment	2017	751	1000	0.29828	0.251	1.05719	4.7865	0.005	0.114	0.105	498.2798	0.153
Other General Industrial Equipment	2018	6	15	1.373834	1.154	5.82717	4.97857	0.005	0.414	0.381	546.6385	0.17
Other General Industrial Equipment	2018	16	25	1.373834	1.154	5.82717	4.97857	0.005	0.414	0.381	546.6385	0.17
Other General Industrial Equipment	2018	26	50	1.373834	1.154	5.82717	4.97857	0.005	0.414	0.381	546.6385	0.17
Other General Industrial Equipment	2018	51	120	0.663253	0.557	3.87633	4.95455	0.005	0.392	0.36	488.2775	0.152
Other General Industrial Equipment	2018	121	175	0.377931	0.318	3.23662	3.23673	0.005	0.172	0.158	490.1999	0.153
Other General Industrial Equipment	2018	176	250	0.360768	0.303	1.45525	3.64819	0.005	0.135	0.124	491.6263	0.153
Other General Industrial Equipment	2018	251	500	0.301755	0.254	1.58301	2.90735	0.005	0.104	0.095	491.3207	0.153
Other General Industrial Equipment	2018	501	750	0.257602	0.216	1.48303	2.41933	0.005	0.083	0.076	491.8763	0.153
Other General Industrial Equipment	2018	751	1000	0.306245	0.257	1.06646	4.81007	0.005	0.116	0.107	490.4122	0.153
Other General Industrial Equipment	2019	6	15	1.240314	1.042	5.66186	4.80683	0.005	0.374	0.344	537.8689	0.17
Other General Industrial Equipment	2019	16	25	1.240314	1.042	5.66186	4.80683	0.005	0.374	0.344	537.8689	0.17
Other General Industrial Equipment	2019	26	50	1.240314	1.042	5.66186	4.80683	0.005	0.374	0.344	537.8689	0.17

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Other General Industrial Equipment	2019	51	120	0.594634	0.5	3.82128	4.49674	0.005	0.343	0.315	480.4442	0.152
Other General Industrial Equipment	2019	121	175	0.359068	0.302	3.24129	2.99891	0.005	0.156	0.144	482.3357	0.153
Other General Industrial Equipment	2019	176	250	0.307665	0.259	1.29893	3.01996	0.005	0.106	0.097	483.7392	0.153
Other General Industrial Equipment	2019	251	500	0.283854	0.239	1.56115	2.57531	0.005	0.092	0.085	483.4385	0.153
Other General Industrial Equipment	2019	501	750	0.236758	0.199	1.47441	2.11518	0.005	0.076	0.07	483.9852	0.153
Other General Industrial Equipment	2019	751	1000	0.31421	0.264	1.07573	4.83364	0.005	0.117	0.108	482.5446	0.153
Other General Industrial Equipment	2020	6	15	1.125869	0.946	5.50397	4.62219	0.005	0.334	0.307	526.1761	0.17
Other General Industrial Equipment	2020	16	25	1.125869	0.946	5.50397	4.62219	0.005	0.334	0.307	526.1761	0.17
Other General Industrial Equipment	2020	26	50	1.125869	0.946	5.50397	4.62219	0.005	0.334	0.307	526.1761	0.17
Other General Industrial Equipment	2020	51	120	0.53075	0.446	3.77073	4.06079	0.005	0.296	0.272	469.9998	0.152
Other General Industrial Equipment	2020	121	175	0.319281	0.268	3.22922	2.57503	0.005	0.135	0.124	471.8502	0.153
Other General Industrial Equipment	2020	176	250	0.281815	0.237	1.23914	2.66782	0.005	0.09	0.083	473.2231	0.153
Other General Industrial Equipment	2020	251	500	0.247036	0.208	1.34424	2.06187	0.005	0.072	0.067	472.929	0.153
Other General Industrial Equipment	2020	501	750	0.207847	0.175	1.46184	1.67591	0.005	0.062	0.057	473.4638	0.153
Other General Industrial Equipment	2020	751	1000	0.322174	0.271	1.085	4.85721	0.005	0.119	0.109	472.0545	0.153
Other General Industrial Equipment	2021	6	15	0.989462	0.831	5.31354	4.42532	0.005	0.289	0.266	526.1761	0.17
Other General Industrial Equipment	2021	16	25	0.989462	0.831	5.31354	4.42532	0.005	0.289	0.266	526.1761	0.17
Other General Industrial Equipment	2021	26	50	0.989462	0.831	5.31354	4.42532	0.005	0.289	0.266	526.1761	0.17
Other General Industrial Equipment	2021	51	120	0.480398	0.404	3.74029	3.7177	0.005	0.256	0.235	469.9998	0.152
Other General Industrial Equipment	2021	121	175	0.302394	0.254	3.23421	2.34745	0.005	0.121	0.111	471.8502	0.153
Other General Industrial Equipment	2021	176	250	0.242448	0.204	1.17138	2.0939	0.005	0.07	0.064	473.2231	0.153
Other General Industrial Equipment	2021	251	500	0.232592	0.195	1.32956	1.79624	0.005	0.064	0.059	472.929	0.153
Other General Industrial Equipment	2021	501	750	0.197551	0.166	1.46305	1.38672	0.005	0.054	0.05	473.4638	0.153
Other General Industrial Equipment	2021	751	1000	0.328625	0.276	1.09291	4.87557	0.005	0.12	0.11	472.0545	0.153
Other General Industrial Equipment	2022	6	15	0.835231	0.702	5.07591	4.19687	0.005	0.238	0.219	526.1761	0.17
Other General Industrial Equipment	2022	16	25	0.835231	0.702	5.07591	4.19687	0.005	0.238	0.219	526.1761	0.17
Other General Industrial Equipment	2022	26	50	0.835231	0.702	5.07591	4.19687	0.005	0.238	0.219	526.1761	0.17
Other General Industrial Equipment	2022	51	120	0.403101	0.339	3.66821	3.19968	0.005	0.199	0.183	469.9998	0.152
Other General Industrial Equipment	2022	121	175	0.289798	0.244	3.23346	2.14959	0.005	0.111	0.102	471.8502	0.153
Other General Industrial Equipment	2022	176	250	0.222216	0.187	1.13752	1.75874	0.005	0.057	0.052	473.2231	0.153
Other General Industrial Equipment	2022	251	500	0.208015	0.175	1.17139	1.43348	0.005	0.05	0.046	472.929	0.153
Other General Industrial Equipment	2022	501	750	0.177285	0.149	1.45658	1.06247	0.005	0.046	0.042	473.4638	0.153
Other General Industrial Equipment	2022	751	1000	0.223076	0.187	1.03925	3.942	0.005	0.079	0.073	472.0545	0.153
Other General Industrial Equipment	2023	6	15	0.717857	0.603	4.88317	3.99304	0.005	0.194	0.178	526.1761	0.17
Other General Industrial Equipment	2023	16	25	0.717857	0.603	4.88317	3.99304	0.005	0.194	0.178	526.1761	0.17
Other General Industrial Equipment	2023	26	50	0.717857	0.603	4.88317	3.99304	0.005	0.194	0.178	526.1761	0.17
Other General Industrial Equipment	2023	51	120	0.366077	0.308	3.64703	2.92394	0.005	0.168	0.155	469.9998	0.152
Other General Industrial Equipment	2023	121	175	0.238568	0.2	3.17453	1.60937	0.005	0.08	0.074	471.8502	0.153
Other General Industrial Equipment	2023	176	250	0.214876	0.181	1.14024	1.53043	0.005	0.051	0.047	473.2231	0.153
Other General Industrial Equipment	2023	251	500	0.195172	0.164	1.12057	1.25618	0.005	0.043	0.04	472.929	0.153
Other General Industrial Equipment	2023	501	750	0.131565	0.111	1.10458	0.62571	0.005	0.023	0.021	473.4638	0.153
Other General Industrial Equipment	2023	751	1000	0.229255	0.193	1.04852	3.95649	0.005	0.08	0.073	472.0545	0.153
Other General Industrial Equipment	2024	6	15	0.649743	0.546	4.78022	3.85892	0.005	0.165	0.152	526.1761	0.17
Other General Industrial Equipment	2024	16	25	0.649743	0.546	4.78022	3.85892	0.005	0.165	0.152	526.1761	0.17
Other General Industrial Equipment	2024	26	50	0.649743	0.546	4.78022	3.85892	0.005	0.165	0.152	526.1761	0.17
Other General Industrial Equipment	2024	51	120	0.341745	0.287	3.63929	2.70778	0.005	0.146	0.134	469.9998	0.152
Other General Industrial Equipment	2024	121	175	0.226791	0.191	3.18534	1.44774	0.005	0.073	0.067	471.8502	0.153
Other General Industrial Equipment	2024	176	250	0.205547	0.173	1.14124	1.31888	0.005	0.046	0.042	473.2231	0.153
Other General Industrial Equipment	2024	251	500	0.187509	0.158	1.1102	1.15288	0.005	0.04	0.036	472.929	0.153
Other General Industrial Equipment	2024	501	750	0.137014	0.115	1.11228	0.62782	0.005	0.023	0.021	473.4638	0.153
Other General Industrial Equipment	2024	751	1000	0.235434	0.198	1.05779	3.97098	0.005	0.08	0.074	472.0545	0.153
Other General Industrial Equipment	2025	6	15	0.585572	0.492	4.67981	3.71721	0.005	0.136	0.125	526.1761	0.17
Other General Industrial Equipment	2025	16	25	0.585572	0.492	4.67981	3.71721	0.005	0.136	0.125	526.1761	0.17
Other General Industrial Equipment	2025	26	50	0.585572	0.492	4.67981	3.71721	0.005	0.136	0.125	526.1761	0.17
Other General Industrial Equipment	2025	51	120	0.306396	0.257	3.61204	2.43889	0.005	0.118	0.109	469.9998	0.152
Other General Industrial Equipment	2025	121	175	0.224974	0.189	3.20434	1.36379	0.005	0.07	0.065	471.8502	0.153
Other General Industrial Equipment	2025	176	250	0.184121	0.155	1.13176	1.02801	0.005	0.036	0.033	473.2231	0.153
Other General Industrial Equipment	2025	251	500	0.180295	0.151	1.10932	1.05334	0.005	0.035	0.032	472.929	0.153
Other General Industrial Equipment	2025	501	750	0.139282	0.117	1.1152	0.629	0.005	0.023	0.021	473.4638	0.153
Other General Industrial Equipment	2025	751	1000	0.241613	0.203	1.06706	3.98546	0.005	0.081	0.074	472.0545	0.153
Other General Industrial Equipment	2030	6	15	1.393	0.589	3.469	4.142	0.008	0.161	0.161	568.299	0.053
Other General Industrial Equipment	2030	16	25	3.889	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Other General Industrial Equipment	2030	26	50	4.896	0.609	5.299	3.46	0.007	0.048	0.048	568.299	0.054
Other General Industrial Equipment	2030	51	120	7.091	0.309	3.802	1.766	0.006	0.043	0.043	568.299	0.027
Other General Industrial Equipment	2030	121	175	7.93	0.223	3.357	0.641	0.006	0.028	0.028	568.299	0.02
Other General Industrial Equipment	2030	176	250	10.485	0.209	1.143	0.536	0.006	0.018	0.018	568.299	0.018
Other General Industrial Equipment	2030	251	500	20.447	0.208	1.087	0.506	0.005	0.018	0.018	568.299	0.018
Other General Industrial Equipment	2030	501	750	33.725	0.208	1.087	0.512	0.005	0.018	0.018	568.299	0.018
Other General Industrial Equipment	2030	751	1000	44.002	0.212	1.088	2.66	0.005	0.035	0.035	568.299	0.019
Other General Industrial Equipment	2035	6	15	1.393	0.589	3.469	4.142	0.008	0.161	0.161	568.299	0.053
Other General Industrial Equipment	2035	16	25	3.889	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Other General Industrial Equipment	2035	26	50	4.535	0.564	5.255	3.334	0.007	0.025	0.025	568.299	0.05
Other General Industrial Equipment	2035	51	120	6.486	0.282	3.794	1.567	0.006	0.022	0.022	568.3	0.025
Other General Industrial Equipment	2035	121	175	7.079	0.199	3.355	0.399	0.006	0.016	0.016	568.3	0.018
Other General Industrial Equipment	2035	176	250	9.803	0.195	1.143	0.355	0.006	0.013	0.013	568.299	0.017
Other General Industrial Equipment	2035	251	500	19.187	0.195	1.087	0.351	0.005	0.013	0.013	568.299	0.017
Other General Industrial Equipment	2035	501	750	31.624	0.195	1.087	0.351	0.005	0.013	0.013	568.299	0.017
Other General Industrial Equipment	2035	751	1000	40.723	0.196	1.087	2.532	0.005	0.028	0.028	568.299	0.017
Other General Industrial Equipment	2040	6	15	1.393	0.589	3.47	4.142	0.008	0.161	0.161	568.299	0.053
Other General Industrial Equipment	2040	16	25	3.889	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Other General Industrial Equipment	2040	26	50	4.521	0.562	5.257	3.283	0.007	0.019	0.019	568.299	0.05
Other General Industrial Equipment	2040	51	120	6.373	0.277	3.794	1.506	0.006	0.017	0.017	568.299	0.025
Other General Industrial Equipment	2040	121	175	6.806	0.191	3.356	0.315	0.006	0.012	0.012	568.299	0.017
Other General Industrial Equipment	2040	176	250	9.551	0.19	1.143	0.299	0.006	0.011	0.011	568.299	0.017
Other General Industrial Equipment	2040	251	500	18.696	0.19	1.087	0.299	0.005	0.011	0.011	568.299	0.017
Other General Industrial Equipment	2040	501	750	30.815	0.19	1.087	0.299	0.005	0.011	0.011	568.299	0.017
Other General Industrial Equipment	2040	751	1000	39.521	0.191	1.087	2.5	0.005	0.025	0.025	568.299	0.017
Other Material Handling Equipment	1990	26	50	12.278	4.763	9.649	7.932	0.692	1.252	1.252	568.3	0.429
Other Material Handling Equipment	1990	51	120	12.096	2.346	5.692	14.896	0.628	1.317	1.317	568.299	0.211
Other Material Handling Equipment	1990	121	175	16.59	1.599	5.041	13.377	0.602	0.872	0.872	568.299	0.144
Other Material Handling Equipment	1990	176	250	19.708	1.599	5.041	13.377	0.602	0.872	0.872	568.3	0.144
Other Material Handling Equipment	1990	251	500	23.083	1.417	11.046	12.702	0.525	0.75	0.75	568.299	0.127
Other Material Handling Equipment	1990	1001	9999	88.844	1.41	11.046	12.702	0.525	0.741	0.741	568.3	0.127
Other Material Handling Equipment	2000	26	50	11.414	4.428	9.121	7.068	0.065	0.925	0.925	568.299	0.399
Other Material Handling Equipment	2000	51	120	9.647	1.871	4.712	10.623	0.059	0.901	0.901	568.299	0.168
Other Material Handling Equipment	2000	121	175	13	1.253	3.836	9.648	0.057	0.531	0.531	568.299	0.113
Other Material Handling Equipment	2000	176	250	12.957	1.051	3.061	9.289	0.057	0.435	0.435	568.3	0.094
Other Material Handling Equipment	2000	251	500	15.5	0.951	5.171	8.836	0.049	0.383	0.383	568.299	0.085
Other Material Handling Equipment	2000	1001	9999	65.006	1.031	5.779	9.45	0.049	0.384	0.384	568.299	0.093
Other Material Handling Equipment	2005	26	50	10.467	4.06	8.646	6.65	0.065	0.878	0.878	568.299	0.366
Other Material Handling Equipment	2005	51	120	8.426	1.634	4.393	9.001	0.059	0.857	0.857	568.3	0.147
Other Material Handling Equipment	2005	121	175	11.141	1.073	3.493	8.235	0.057	0.473	0.473	568.299	0.096
Other Material Handling Equipment	2005	176	250	9.335	0.757	2.058	7.76	0.057	0.299	0.299	568.299	0.068
Other Material Handling Equipment	2005	251	500	10.914	0.67	2.676	7.071	0.049	0.268	0.268	568.299	0.06
Other Material Handling Equipment	2005	1001	9999	50.601	0.803	3.267	8.291	0.049	0.278	0.278	568.299	0.072
Other Material Handling Equipment	2010	26	50	2.513226	2.112	7.14242	6.11921	0.005	0.673	0.619	581.8987	0.169
Other Material Handling Equipment	2010	51	120	0.880333	0.74	3.91836	6.86036	0.005	0.55	0.506	526.2094	0.153
Other Material Handling Equipment	2010	121	175	0.703937	0.592	3.45939	6.62945	0.005	0.364	0.335	524.6881	0.153
Other Material Handling Equipment	2010	176	250	0.639111	0.537	2.2178	7.05748	0.005	0.292	0.269	523.8689	0.152
Other Material Handling Equipment	2010	251	500	0.474577	0.399	2.89546	5.53948	0.005	0.225	0.207	522.5525	0.152
Other Material Handling Equipment	2010	1001	9999	0.19342	0.163	0.96514	4.31467	0.005	0.1	0.092	524.505	0.153
Other Material Handling Equipment	2011	26	50	2.357707	1.981	6.95209	6.0264	0.005	0.644	0.593	580.4439	0.169
Other Material Handling Equipment	2011	51	120	0.835489	0.702	3.89742	6.54765	0.005	0.527	0.485	524.8938	0.153
Other Material Handling Equipment	2011	121	175	0.695125	0.584	3.45599	6.48588	0.005	0.36	0.331	523.3764	0.153
Other Material Handling Equipment	2011	176	250	0.63663	0.535	2.18416	6.98965	0.005	0.288	0.265	522.5592	0.152
Other Material Handling Equipment	2011	251	500	0.474482	0.399	2.78574	5.43165	0.005	0.221	0.203	521.2461	0.152
Other Material Handling Equipment	2011	1001	9999	0.210247	0.177	0.97804	4.35542	0.005	0.103	0.095	523.1938	0.153
Other Material Handling Equipment	2012	26	50	2.238738	1.881	6.81597	5.92499	0.005	0.62	0.57	578.9892	0.169
Other Material Handling Equipment	2012	51	120	0.817068	0.687	3.90414	6.36758	0.005	0.516	0.475	523.5783	0.153
Other Material Handling Equipment	2012	121	175	0.692769	0.582	3.47827	6.40913	0.005	0.357	0.328	522.0647	0.153
Other Material Handling Equipment	2012	176	250	0.646463	0.543	2.19514	7.02565	0.005	0.29	0.267	521.2496	0.152
Other Material Handling Equipment	2012	251	500	0.470349	0.395	2.61135	5.30246	0.005	0.214	0.197	519.9397	0.152
Other Material Handling Equipment	2012	1001	9999	0.227073	0.191	0.99094	4.39617	0.005	0.106	0.098	521.8825	0.153
Other Material Handling Equipment	2013	26	50	2.105942	1.77	6.66457	5.85572	0.005	0.596	0.548	576.0797	0.169
Other Material Handling Equipment	2013	51	120	0.724086	0.608	3.82317	5.76277	0.005	0.447	0.411	520.9473	0.153
Other Material Handling Equipment	2013	121	175	0.665996	0.56	3.43613	6.15356	0.005	0.333	0.306	519.4412	0.153
Other Material Handling Equipment	2013	176	250	0.634565	0.533	2.16882	6.82184	0.005	0.281	0.259	518.6302	0.152
Other Material Handling Equipment	2013	251	500	0.438071	0.368	2.33558	4.87099	0.005	0.195	0.179	517.327	0.152
Other Material Handling Equipment	2013	1001	9999	0.2439	0.205	1.00384	4.43692	0.005	0.11	0.101	519.26	0.153
Other Material Handling Equipment	2014	26	50	2.017454	1.695	6.58988	5.75119	0.005	0.575	0.529	573.1702	0.169
Other Material Handling Equipment	2014	51	120	0.66398	0.558	3.77914	5.37202	0.005	0.412	0.379	518.3162	0.153
Other Material Handling Equipment	2014	121	175	0.628738	0.528	3.43064	5.79759	0.005	0.313	0.288	516.8178	0.153
Other Material Handling Equipment	2014	176	250	0.565441	0.475	1.93605	6.17254	0.005	0.242	0.223	516.0109	0.152
Other Material Handling Equipment	2014	251	500	0.394393	0.331	1.92674	4.35658	0.005	0.169	0.155	514.7142	0.152
Other Material Handling Equipment	2014	1001	9999	0.168044	0.141	0.97804	3.4363	0.005	0.066	0.061	516.6375	0.153
Other Material Handling Equipment	2015	26	50	2.062891	1.733	6.75642	5.7994	0.005	0.586	0.539	567.3512	0.169
Other Material Handling Equipment	2015	51	120	0.628094	0.528	3.75787	4.98312	0.005	0.383	0.352	513.0541	0.153
Other Material Handling Equipment	2015	121	175	0.624881	0.525	3.43301	5.6445	0.005	0.306	0.282	511.5709	0.153
Other Material Handling Equipment	2015	176	250	0.503855	0.423	1.74236	5.5323	0.005	0.207	0.191	510.7722	0.152
Other Material Handling Equipment	2015	251	500	0.396328	0.333	1.91761	4.27243	0.005	0.166	0.152	509.4887	0.152
Other Material Handling Equipment	2015	1001	9999	0.1762	0.148	0.98449	3.45753	0.005	0.068	0.063	511.3924	0.153
Other Material Handling Equipment	2016	26	50	2.100647	1.765	6.89161	5.80157	0.005	0.593	0.546	561.5322	0.169

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Other Material Handling Equipment	2016	51	120	0.611519	0.514	3.76606	4.79843	0.005	0.367	0.338	507.792	0.153
Other Material Handling Equipment	2016	121	175	0.581687	0.489	3.41823	5.21152	0.005	0.279	0.257	506.324	0.153
Other Material Handling Equipment	2016	176	250	0.474176	0.398	1.64277	5.19629	0.005	0.189	0.174	505.5335	0.152
Other Material Handling Equipment	2016	251	500	0.384009	0.323	1.87077	4.05322	0.005	0.156	0.143	504.2631	0.152
Other Material Handling Equipment	2016	1001	9999	0.188654	0.159	0.99739	3.48884	0.005	0.07	0.065	506.1474	0.153
Other Material Handling Equipment	2017	26	50	1.922269	1.615	6.63527	5.57447	0.005	0.546	0.502	552.8037	0.169
Other Material Handling Equipment	2017	51	120	0.580499	0.488	3.75788	4.56113	0.005	0.341	0.314	499.8989	0.153
Other Material Handling Equipment	2017	121	175	0.508007	0.427	3.35117	4.48809	0.005	0.238	0.219	498.4537	0.153
Other Material Handling Equipment	2017	176	250	0.42771	0.359	1.51249	4.70454	0.005	0.163	0.15	497.6755	0.152
Other Material Handling Equipment	2017	251	500	0.386945	0.325	1.86256	3.9709	0.005	0.154	0.141	496.4249	0.152
Other Material Handling Equipment	2017	1001	9999	0.201109	0.169	1.01029	3.52015	0.005	0.072	0.066	498.2798	0.153
Other Material Handling Equipment	2018	26	50	1.534491	1.289	6.06083	5.18225	0.005	0.457	0.42	544.0753	0.169
Other Material Handling Equipment	2018	51	120	0.484553	0.407	3.67482	3.9436	0.005	0.271	0.249	492.0058	0.153
Other Material Handling Equipment	2018	121	175	0.38852	0.326	3.21803	3.33231	0.005	0.173	0.159	490.5834	0.153
Other Material Handling Equipment	2018	176	250	0.376195	0.316	1.3884	4.09187	0.005	0.135	0.124	489.8174	0.152
Other Material Handling Equipment	2018	251	500	0.352182	0.296	1.63271	3.52439	0.005	0.133	0.123	488.5866	0.152
Other Material Handling Equipment	2018	1001	9999	0.213564	0.179	1.02319	3.55146	0.005	0.074	0.068	490.4122	0.153
Other Material Handling Equipment	2019	26	50	1.5177	1.275	6.13945	5.17904	0.005	0.452	0.416	535.3468	0.169
Other Material Handling Equipment	2019	51	120	0.428699	0.36	3.63634	3.56573	0.005	0.231	0.212	484.1126	0.153
Other Material Handling Equipment	2019	121	175	0.332757	0.28	3.1852	2.77369	0.005	0.139	0.128	482.7131	0.153
Other Material Handling Equipment	2019	176	250	0.357063	0.3	1.34052	3.81716	0.005	0.123	0.113	481.9594	0.152
Other Material Handling Equipment	2019	251	500	0.346245	0.291	1.61951	3.37078	0.005	0.128	0.118	480.7483	0.152
Other Material Handling Equipment	2019	1001	9999	0.226018	0.19	1.03609	3.58277	0.005	0.076	0.07	482.5446	0.153
Other Material Handling Equipment	2020	26	50	1.481858	1.245	6.1671	5.13925	0.005	0.439	0.404	523.7088	0.169
Other Material Handling Equipment	2020	51	120	0.36479	0.307	3.58938	3.10396	0.005	0.182	0.168	473.5884	0.153
Other Material Handling Equipment	2020	121	175	0.299922	0.252	3.17089	2.36653	0.005	0.118	0.109	472.2193	0.153
Other Material Handling Equipment	2020	176	250	0.346024	0.291	1.31882	3.59889	0.005	0.115	0.106	471.482	0.152
Other Material Handling Equipment	2020	251	500	0.336187	0.282	1.52346	3.20974	0.005	0.12	0.11	470.2972	0.152
Other Material Handling Equipment	2020	1001	9999	0.238473	0.2	1.04898	3.61407	0.005	0.078	0.072	472.0545	0.153
Other Material Handling Equipment	2021	26	50	1.318509	1.108	5.95956	4.96638	0.005	0.396	0.364	523.7088	0.169
Other Material Handling Equipment	2021	51	120	0.349969	0.294	3.60203	2.95622	0.005	0.166	0.152	473.5884	0.153
Other Material Handling Equipment	2021	121	175	0.296084	0.249	3.19638	2.24633	0.005	0.114	0.105	472.2193	0.153
Other Material Handling Equipment	2021	176	250	0.32063	0.269	1.30911	3.08193	0.005	0.102	0.094	471.482	0.152
Other Material Handling Equipment	2021	251	500	0.302407	0.254	1.44188	2.60166	0.005	0.101	0.093	470.2972	0.152
Other Material Handling Equipment	2021	1001	9999	0.086228	0.072	0.97159	2.3179	0.005	0.019	0.018	472.0545	0.153
Other Material Handling Equipment	2022	26	50	1.313129	1.103	5.98386	4.92048	0.005	0.385	0.354	523.7088	0.169
Other Material Handling Equipment	2022	51	120	0.294157	0.247	3.55673	2.56673	0.005	0.121	0.111	473.5884	0.153
Other Material Handling Equipment	2022	121	175	0.268495	0.226	3.17607	1.89383	0.005	0.103	0.095	472.2193	0.153
Other Material Handling Equipment	2022	176	250	0.272302	0.229	1.23917	2.42542	0.005	0.083	0.076	471.482	0.152
Other Material Handling Equipment	2022	251	500	0.269417	0.226	1.34592	2.06254	0.005	0.083	0.077	470.2972	0.152
Other Material Handling Equipment	2022	1001	9999	0.090526	0.076	0.97804	2.32798	0.005	0.02	0.018	472.0545	0.153
Other Material Handling Equipment	2023	26	50	1.203044	1.011	5.75727	4.68435	0.005	0.34	0.313	523.7088	0.169
Other Material Handling Equipment	2023	51	120	0.267491	0.225	3.51535	2.29768	0.005	0.104	0.095	473.5884	0.153
Other Material Handling Equipment	2023	121	175	0.25813	0.217	3.17066	1.76898	0.005	0.096	0.088	472.2193	0.153
Other Material Handling Equipment	2023	176	250	0.246291	0.207	1.20917	2.00366	0.005	0.069	0.064	471.482	0.152
Other Material Handling Equipment	2023	251	500	0.258837	0.217	1.34382	1.87023	0.005	0.078	0.072	470.2972	0.152
Other Material Handling Equipment	2023	1001	9999	0.064735	0.054	0.93935	2.26751	0.005	0.018	0.017	472.0545	0.153
Other Material Handling Equipment	2024	26	50	1.121754	0.943	5.6693	4.5789	0.005	0.314	0.289	523.7088	0.169
Other Material Handling Equipment	2024	51	120	0.262084	0.22	3.51036	2.22162	0.005	0.096	0.089	473.5884	0.153
Other Material Handling Equipment	2024	121	175	0.247908	0.208	3.18111	1.63864	0.005	0.088	0.081	472.2193	0.153
Other Material Handling Equipment	2024	176	250	0.250036	0.21	1.21822	1.98559	0.005	0.068	0.063	471.482	0.152
Other Material Handling Equipment	2024	251	500	0.252116	0.212	1.26223	1.75588	0.005	0.072	0.066	470.2972	0.152
Other Material Handling Equipment	2024	1001	9999	0.069034	0.058	0.9458	2.27759	0.005	0.018	0.017	472.0545	0.153
Other Material Handling Equipment	2025	26	50	0.88573	0.744	5.24797	4.23278	0.005	0.239	0.219	523.7088	0.169
Other Material Handling Equipment	2025	51	120	0.241784	0.203	3.49652	2.05524	0.005	0.081	0.074	473.5884	0.153
Other Material Handling Equipment	2025	121	175	0.225132	0.189	3.1679	1.39583	0.005	0.072	0.067	472.2193	0.153
Other Material Handling Equipment	2025	176	250	0.237677	0.2	1.19728	1.77352	0.005	0.06	0.055	471.482	0.152
Other Material Handling Equipment	2025	251	500	0.242568	0.204	1.25988	1.60116	0.005	0.067	0.061	470.2972	0.152
Other Material Handling Equipment	2025	1001	9999	0.077631	0.065	0.9587	2.29775	0.005	0.019	0.017	472.0545	0.153
Other Material Handling Equipment	2030	26	50	1.542	0.598	5.237	3.447	0.007	0.048	0.048	568.299	0.053
Other Material Handling Equipment	2030	51	120	1.57	0.304	3.784	1.762	0.006	0.043	0.043	568.299	0.027
Other Material Handling Equipment	2030	121	175	2.287	0.22	3.341	0.64	0.006	0.028	0.028	568.299	0.019
Other Material Handling Equipment	2030	176	250	2.539	0.206	1.138	0.535	0.006	0.018	0.018	568.299	0.018
Other Material Handling Equipment	2030	251	500	3.342	0.205	1.083	0.505	0.005	0.018	0.018	568.299	0.018
Other Material Handling Equipment	2030	1001	9999	13.763	0.218	1.084	2.653	0.005	0.035	0.035	568.299	0.019
Other Material Handling Equipment	2035	26	50	1.425	0.552	5.189	3.321	0.007	0.025	0.025	568.299	0.049
Other Material Handling Equipment	2035	51	120	1.432	0.277	3.774	1.563	0.006	0.022	0.022	568.299	0.025
Other Material Handling Equipment	2035	121	175	2.036	0.196	3.338	0.398	0.006	0.016	0.016	568.299	0.017
Other Material Handling Equipment	2035	176	250	2.369	0.192	1.137	0.354	0.006	0.013	0.013	568.299	0.017
Other Material Handling Equipment	2035	251	500	3.13	0.192	1.082	0.35	0.005	0.013	0.013	568.299	0.017
Other Material Handling Equipment	2035	1001	9999	12.454	0.197	1.082	2.525	0.005	0.027	0.027	568.299	0.017

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Other Material Handling Equipment	2040	26	50	1.42	0.551	5.191	3.269	0.007	0.018	0.018	568.299	0.049
Other Material Handling Equipment	2040	51	120	1.407	0.272	3.775	1.502	0.006	0.017	0.017	568.3	0.024
Other Material Handling Equipment	2040	121	175	1.956	0.188	3.339	0.314	0.006	0.012	0.012	568.299	0.017
Other Material Handling Equipment	2040	176	250	2.307	0.187	1.137	0.298	0.006	0.011	0.011	568.299	0.016
Other Material Handling Equipment	2040	251	500	3.048	0.187	1.082	0.298	0.005	0.011	0.011	568.299	0.016
Other Material Handling Equipment	2040	1001	9999	11.917	0.189	1.082	2.493	0.005	0.025	0.025	568.3	0.017
Pavers	1990	16	25	5.971	2.213	4.999	6.919	0.855	0.741	0.741	568.299	0.199
Pavers	1990	26	50	19.405	4.794	9.701	7.946	0.871	1.268	1.268	568.299	0.432
Pavers	1990	51	120	23.749	2.373	5.748	15.062	0.791	1.339	1.339	568.299	0.214
Pavers	1990	121	175	33.808	1.822	5.135	14.503	0.758	1.01	1.01	568.3	0.164
Pavers	1990	176	250	51.225	1.822	5.135	14.503	0.758	1.01	1.01	568.299	0.164
Pavers	1990	251	500	54.32	1.61	11.305	13.755	0.662	0.864	0.864	568.3	0.145
Pavers	2000	16	25	5.517	2.044	4.689	6.391	0.065	0.569	0.569	568.299	0.184
Pavers	2000	26	50	18.072	4.464	9.175	7.116	0.066	0.93	0.93	568.299	0.402
Pavers	2000	51	120	19.415	1.94	4.853	11.121	0.06	0.916	0.916	568.299	0.175
Pavers	2000	121	175	24.566	1.324	4.022	10.172	0.057	0.558	0.558	568.299	0.119
Pavers	2000	176	250	33.03	1.175	3.443	9.909	0.057	0.488	0.488	568.299	0.106
Pavers	2000	251	500	35.713	1.058	6.242	9.422	0.05	0.426	0.426	568.299	0.095
Pavers	2005	16	25	3.746	1.388	3.497	5.819	0.065	0.444	0.444	568.299	0.125
Pavers	2005	26	50	16.699	4.125	8.722	6.746	0.066	0.883	0.883	568.299	0.372
Pavers	2005	51	120	17.345	1.733	4.584	9.797	0.06	0.869	0.869	568.299	0.156
Pavers	2005	121	175	21.287	1.147	3.731	8.921	0.057	0.5	0.5	568.299	0.103
Pavers	2005	176	250	26.087	0.928	2.661	8.591	0.057	0.382	0.382	568.299	0.083
Pavers	2005	251	500	27.622	0.818	4.283	7.91	0.05	0.335	0.335	568.299	0.073
Pavers	2010	16	25	2.244446	1.886	6.22261	5.97127	0.005	0.619	0.569	585.4019	0.17
Pavers	2010	26	50	2.244446	1.886	6.22261	5.97127	0.005	0.619	0.569	585.4019	0.17
Pavers	2010	51	120	0.922393	0.775	3.82417	7.01944	0.005	0.54	0.497	521.2606	0.152
Pavers	2010	121	175	0.693583	0.583	3.10662	6.66867	0.005	0.337	0.31	525.3233	0.153
Pavers	2010	176	250	0.236627	0.199	1.01703	4.38018	0.005	0.111	0.102	526.8527	0.153
Pavers	2010	251	500	0.240458	0.202	1.1256	3.56944	0.005	0.123	0.113	517.8758	0.151
Pavers	2011	16	25	2.255759	1.895	6.28822	5.97418	0.005	0.621	0.571	583.8947	0.17
Pavers	2011	26	50	2.255759	1.895	6.28822	5.97418	0.005	0.621	0.571	583.8947	0.17
Pavers	2011	51	120	0.882284	0.741	3.7912	6.70468	0.005	0.521	0.479	519.7431	0.152
Pavers	2011	121	175	0.67473	0.567	3.11177	6.45159	0.005	0.327	0.301	524.0864	0.153
Pavers	2011	176	250	0.244703	0.206	1.02596	4.38871	0.005	0.112	0.103	525.5251	0.153
Pavers	2011	251	500	0.249329	0.21	1.13249	3.58498	0.005	0.125	0.115	516.5811	0.151
Pavers	2012	16	25	2.286702	1.921	6.36408	5.86068	0.005	0.609	0.56	582.5825	0.17
Pavers	2012	26	50	2.286702	1.921	6.36408	5.86068	0.005	0.609	0.56	582.5825	0.17
Pavers	2012	51	120	0.886577	0.745	3.81157	6.67323	0.005	0.523	0.481	518.3581	0.152
Pavers	2012	121	175	0.677654	0.569	3.13178	6.44162	0.005	0.329	0.303	522.8325	0.153
Pavers	2012	176	250	0.2532	0.213	1.035	4.41317	0.005	0.114	0.105	524.2222	0.153
Pavers	2012	251	500	0.257974	0.217	1.13914	3.59993	0.005	0.127	0.117	515.2863	0.151
Pavers	2013	16	25	2.27571	1.912	6.39148	5.84153	0.005	0.605	0.557	580.2093	0.171
Pavers	2013	26	50	2.27571	1.912	6.39148	5.84153	0.005	0.605	0.557	580.2093	0.171
Pavers	2013	51	120	0.845721	0.711	3.79289	6.43604	0.005	0.501	0.461	516.6013	0.152
Pavers	2013	121	175	0.630117	0.529	3.11657	6.05919	0.005	0.304	0.28	519.6823	0.153
Pavers	2013	176	250	0.245733	0.206	1.01743	4.23038	0.005	0.106	0.098	521.5314	0.153
Pavers	2013	251	500	0.242925	0.204	1.08604	3.39449	0.005	0.118	0.108	514.2313	0.151
Pavers	2014	16	25	2.258865	1.898	6.3806	5.71682	0.005	0.595	0.547	577.016	0.171
Pavers	2014	26	50	2.258865	1.898	6.3806	5.71682	0.005	0.595	0.547	577.016	0.171
Pavers	2014	51	120	0.81298	0.683	3.77256	6.19872	0.005	0.483	0.444	514.3769	0.152
Pavers	2014	121	175	0.597911	0.502	3.1146	5.73631	0.005	0.287	0.264	516.745	0.153
Pavers	2014	176	250	0.247393	0.208	1.02279	4.14032	0.005	0.105	0.097	518.7225	0.153
Pavers	2014	251	500	0.214341	0.18	1.00469	3.04734	0.005	0.101	0.093	512.1908	0.151
Pavers	2015	16	25	2.205076	1.853	6.34019	5.63731	0.005	0.579	0.533	571.0859	0.17
Pavers	2015	26	50	2.205076	1.853	6.34019	5.63731	0.005	0.579	0.533	571.0859	0.17
Pavers	2015	51	120	0.809163	0.68	3.78832	6.14096	0.005	0.479	0.441	509.3767	0.152
Pavers	2015	121	175	0.582419	0.489	3.11546	5.53669	0.005	0.277	0.255	511.6457	0.153
Pavers	2015	176	250	0.254974	0.214	1.03121	4.16051	0.005	0.107	0.098	513.4682	0.153
Pavers	2015	251	500	0.209561	0.176	0.97787	2.91741	0.005	0.097	0.089	506.0973	0.151
Pavers	2016	16	25	2.174792	1.827	6.33993	5.57882	0.005	0.569	0.523	565.2336	0.17
Pavers	2016	26	50	2.174792	1.827	6.33993	5.57882	0.005	0.569	0.523	565.2336	0.17
Pavers	2016	51	120	0.773362	0.65	3.76854	5.88646	0.005	0.457	0.42	503.7795	0.152
Pavers	2016	121	175	0.515586	0.433	3.08023	4.87397	0.005	0.242	0.223	506.5401	0.153
Pavers	2016	176	250	0.254126	0.214	1.03591	4.02384	0.005	0.104	0.096	508.0698	0.153
Pavers	2016	251	500	0.214564	0.18	0.9829	2.88492	0.005	0.096	0.089	500.9364	0.151
Pavers	2017	16	25	2.059621	1.731	6.19932	5.43675	0.005	0.54	0.496	556.4528	0.17
Pavers	2017	26	50	2.059621	1.731	6.19932	5.43675	0.005	0.54	0.496	556.4528	0.17
Pavers	2017	51	120	0.744072	0.625	3.75882	5.69243	0.005	0.437	0.402	495.9253	0.152
Pavers	2017	121	175	0.462819	0.389	3.06282	4.35312	0.005	0.214	0.197	498.967	0.153
Pavers	2017	176	250	0.247933	0.208	1.03652	3.80866	0.005	0.1	0.092	499.5617	0.153

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Pavers	2017	251	500	0.199578	0.168	0.97942	2.48674	0.005	0.087	0.08	491.7843	0.151
Pavers	2018	16	25	1.831035	1.539	5.8493	5.12103	0.005	0.478	0.44	547.0785	0.17
Pavers	2018	26	50	1.831035	1.539	5.8493	5.12103	0.005	0.478	0.44	547.0785	0.17
Pavers	2018	51	120	0.637446	0.536	3.66032	5.01936	0.005	0.375	0.345	488.1812	0.152
Pavers	2018	121	175	0.403099	0.339	3.03913	3.7472	0.005	0.183	0.168	491.322	0.153
Pavers	2018	176	250	0.235833	0.198	1.03446	3.47438	0.005	0.092	0.085	491.543	0.153
Pavers	2018	251	500	0.195547	0.164	0.98125	2.32002	0.005	0.083	0.076	484.2774	0.151
Pavers	2019	16	25	1.687019	1.418	5.65687	4.91634	0.005	0.436	0.401	538.3246	0.17
Pavers	2019	26	50	1.687019	1.418	5.65687	4.91634	0.005	0.436	0.401	538.3246	0.17
Pavers	2019	51	120	0.589904	0.496	3.62215	4.67048	0.005	0.345	0.318	480.2509	0.152
Pavers	2019	121	175	0.355588	0.299	3.01323	3.24473	0.005	0.159	0.146	483.3938	0.153
Pavers	2019	176	250	0.222293	0.187	1.03181	3.11084	0.005	0.084	0.077	483.5743	0.153
Pavers	2019	251	500	0.198123	0.166	0.98586	2.26992	0.005	0.081	0.075	476.9707	0.151
Pavers	2020	16	25	1.568718	1.318	5.52345	4.76401	0.005	0.402	0.37	526.2098	0.17
Pavers	2020	26	50	1.568718	1.318	5.52345	4.76401	0.005	0.402	0.37	526.2098	0.17
Pavers	2020	51	120	0.558949	0.47	3.60405	4.42718	0.005	0.325	0.299	469.8815	0.152
Pavers	2020	121	175	0.324615	0.273	3.0097	2.91833	0.005	0.142	0.131	472.7746	0.153
Pavers	2020	176	250	0.209036	0.176	1.02834	2.77699	0.005	0.076	0.07	472.8337	0.153
Pavers	2020	251	500	0.195949	0.165	0.98677	2.13394	0.005	0.077	0.071	466.2059	0.151
Pavers	2021	16	25	1.43708	1.208	5.30162	4.60183	0.005	0.37	0.34	526.5153	0.17
Pavers	2021	26	50	1.43708	1.208	5.30162	4.60183	0.005	0.37	0.34	526.5153	0.17
Pavers	2021	51	120	0.499355	0.42	3.56251	4.02622	0.005	0.285	0.262	469.7736	0.152
Pavers	2021	121	175	0.304315	0.256	3.01647	2.6948	0.005	0.13	0.12	472.5552	0.153
Pavers	2021	176	250	0.196899	0.165	1.02422	2.4844	0.005	0.07	0.064	472.4765	0.153
Pavers	2021	251	500	0.195105	0.164	0.98777	2.05298	0.005	0.074	0.068	465.5908	0.151
Pavers	2022	16	25	1.299052	1.092	5.11433	4.42092	0.005	0.33	0.303	526.8963	0.17
Pavers	2022	26	50	1.299052	1.092	5.11433	4.42092	0.005	0.33	0.303	526.8963	0.17
Pavers	2022	51	120	0.443951	0.373	3.52511	3.65932	0.005	0.248	0.228	470.1854	0.152
Pavers	2022	121	175	0.255688	0.215	2.99478	2.17958	0.005	0.104	0.095	472.7599	0.153
Pavers	2022	176	250	0.167123	0.14	1.01231	1.89985	0.005	0.055	0.05	472.3718	0.153
Pavers	2022	251	500	0.178545	0.15	0.98238	1.81028	0.005	0.063	0.058	466.0042	0.151
Pavers	2023	16	25	1.198318	1.007	5.00667	4.28484	0.005	0.299	0.275	526.8595	0.17
Pavers	2023	26	50	1.198318	1.007	5.00667	4.28484	0.005	0.299	0.275	526.8595	0.17
Pavers	2023	51	120	0.415607	0.349	3.50733	3.42661	0.005	0.226	0.208	470.0839	0.152
Pavers	2023	121	175	0.237199	0.199	2.99398	1.95517	0.005	0.092	0.085	472.7178	0.153
Pavers	2023	176	250	0.154288	0.13	1.01018	1.6106	0.005	0.047	0.043	472.6051	0.153
Pavers	2023	251	500	0.18061	0.152	0.98653	1.77101	0.005	0.062	0.057	466.0038	0.151
Pavers	2024	16	25	1.130978	0.95	4.95625	4.20308	0.005	0.279	0.257	526.8565	0.17
Pavers	2024	26	50	1.130978	0.95	4.95625	4.20308	0.005	0.279	0.257	526.8565	0.17
Pavers	2024	51	120	0.40131	0.337	3.50784	3.2771	0.005	0.213	0.196	470.2262	0.152
Pavers	2024	121	175	0.226916	0.191	3.0042	1.80882	0.005	0.084	0.078	472.6605	0.153
Pavers	2024	176	250	0.141914	0.119	1.00872	1.34323	0.005	0.041	0.038	473.2362	0.153
Pavers	2024	251	500	0.169789	0.143	0.98624	1.54798	0.005	0.054	0.049	467.1711	0.151
Pavers	2025	16	25	1.092933	0.918	4.94451	4.13112	0.005	0.265	0.243	526.8533	0.17
Pavers	2025	26	50	1.092933	0.918	4.94451	4.13112	0.005	0.265	0.243	526.8533	0.17
Pavers	2025	51	120	0.373474	0.314	3.49286	3.06788	0.005	0.19	0.175	469.8988	0.152
Pavers	2025	121	175	0.214799	0.18	3.0071	1.64396	0.005	0.077	0.071	472.485	0.153
Pavers	2025	176	250	0.127304	0.107	1.00414	1.03493	0.005	0.034	0.031	473.4832	0.153
Pavers	2025	251	500	0.136633	0.115	0.96892	1.13351	0.005	0.039	0.036	465.8824	0.151
Pavers	2030	16	25	1.849	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Pavers	2030	26	50	3.42	0.845	5.396	3.841	0.007	0.134	0.134	568.299	0.076
Pavers	2030	51	120	4.084	0.408	3.8	2.468	0.006	0.121	0.121	568.3	0.036
Pavers	2030	121	175	5.577	0.3	3.326	1.425	0.006	0.074	0.074	568.299	0.027
Pavers	2030	176	250	7.306	0.259	1.192	1.246	0.006	0.045	0.045	568.299	0.023
Pavers	2030	251	500	8.558	0.253	1.181	1.141	0.005	0.043	0.043	568.299	0.022
Pavers	2035	16	25	1.849	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Pavers	2035	26	50	2.812	0.694	5.26	3.555	0.007	0.076	0.076	568.299	0.062
Pavers	2035	51	120	3.386	0.338	3.774	1.986	0.006	0.069	0.069	568.299	0.03
Pavers	2035	121	175	4.543	0.244	3.319	0.889	0.006	0.043	0.043	568.299	0.022
Pavers	2035	176	250	6.219	0.221	1.157	0.772	0.006	0.027	0.027	568.3	0.019
Pavers	2035	251	500	7.364	0.218	1.111	0.722	0.005	0.026	0.026	568.299	0.019
Pavers	2040	16	25	1.849	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Pavers	2040	26	50	2.504	0.618	5.189	3.393	0.007	0.047	0.047	568.299	0.055
Pavers	2040	51	120	3.03	0.302	3.763	1.731	0.006	0.043	0.043	568.299	0.027
Pavers	2040	121	175	3.958	0.213	3.319	0.583	0.006	0.027	0.027	568.299	0.019
Pavers	2040	176	250	5.625	0.2	1.138	0.525	0.006	0.018	0.018	568.299	0.018
Pavers	2040	251	500	6.703	0.198	1.085	0.498	0.005	0.018	0.018	568.299	0.017
Paving Equipment	1990	16	25	5.257	2.213	4.999	6.919	0.855	0.741	0.741	568.299	0.199
Paving Equipment	1990	26	50	21.788	4.84	9.783	7.965	0.871	1.277	1.277	568.299	0.436
Paving Equipment	1990	51	120	24.593	2.398	5.796	15.202	0.791	1.352	1.352	568.299	0.216
Paving Equipment	1990	121	175	35.738	1.88	5.196	14.821	0.758	1.044	1.044	568.3	0.169

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Paving Equipment	1990	176	250	43.262	1.88	5.196	14.821	0.758	1.044	1.044	568.299	0.169
Paving Equipment	2000	16	25	4.652	1.958	4.53	6.358	0.065	0.563	0.563	568.299	0.176
Paving Equipment	2000	26	50	19.86	4.412	9.076	7.101	0.066	0.921	0.921	568.299	0.398
Paving Equipment	2000	51	120	19.826	1.933	4.844	11.122	0.06	0.909	0.909	568.299	0.174
Paving Equipment	2000	121	175	25.015	1.316	4.018	10.15	0.057	0.553	0.553	568.299	0.118
Paving Equipment	2000	176	250	26.974	1.172	3.458	9.895	0.057	0.486	0.486	568.299	0.105
Paving Equipment	2005	16	25	2.184	0.919	2.642	5.412	0.065	0.347	0.347	568.299	0.082
Paving Equipment	2005	26	50	18.352	4.077	8.626	6.73	0.066	0.875	0.875	568.299	0.367
Paving Equipment	2005	51	120	17.633	1.719	4.557	9.754	0.06	0.86	0.86	568.299	0.155
Paving Equipment	2005	121	175	21.589	1.135	3.705	8.873	0.057	0.494	0.494	568.299	0.102
Paving Equipment	2005	176	250	21.201	0.921	2.655	8.548	0.057	0.38	0.38	568.299	0.083
Paving Equipment	2010	16	25	1.378997	1.159	4.92203	5.35696	0.005	0.47	0.433	578.6236	0.168
Paving Equipment	2010	26	50	1.378997	1.159	4.92203	5.35696	0.005	0.47	0.433	578.6236	0.168
Paving Equipment	2010	51	120	0.934999	0.786	3.90118	7.23593	0.005	0.553	0.508	526.5834	0.153
Paving Equipment	2010	121	175	0.573407	0.482	3.13688	6.09511	0.005	0.295	0.271	523.4127	0.152
Paving Equipment	2010	176	250	0.486641	0.409	1.69744	6.03614	0.005	0.224	0.206	524.3728	0.153
Paving Equipment	2011	16	25	1.380687	1.16	4.99687	5.36974	0.005	0.472	0.434	577.1303	0.168
Paving Equipment	2011	26	50	1.380687	1.16	4.99687	5.36974	0.005	0.472	0.434	577.1303	0.168
Paving Equipment	2011	51	120	0.895349	0.752	3.87125	6.99544	0.005	0.536	0.493	524.9269	0.153
Paving Equipment	2011	121	175	0.56507	0.475	3.14337	5.97526	0.005	0.29	0.267	522.1549	0.152
Paving Equipment	2011	176	250	0.466258	0.392	1.64572	5.77978	0.005	0.213	0.196	523.0323	0.153
Paving Equipment	2012	16	25	1.384947	1.164	5.06516	5.34363	0.005	0.47	0.432	575.687	0.168
Paving Equipment	2012	26	50	1.384947	1.164	5.06516	5.34363	0.005	0.47	0.432	575.687	0.168
Paving Equipment	2012	51	120	0.910401	0.765	3.90635	7.04165	0.005	0.546	0.503	523.5886	0.153
Paving Equipment	2012	121	175	0.56544	0.475	3.15801	5.9326	0.005	0.29	0.267	520.7286	0.152
Paving Equipment	2012	176	250	0.474854	0.399	1.657	5.81292	0.005	0.215	0.198	521.7154	0.153
Paving Equipment	2013	16	25	1.327494	1.115	5.02677	5.2986	0.005	0.459	0.422	572.4644	0.168
Paving Equipment	2013	26	50	1.327494	1.115	5.02677	5.2986	0.005	0.459	0.422	572.4644	0.168
Paving Equipment	2013	51	120	0.845445	0.71	3.86369	6.6576	0.005	0.507	0.467	520.6724	0.153
Paving Equipment	2013	121	175	0.532035	0.447	3.1205	5.60344	0.005	0.271	0.249	517.6606	0.152
Paving Equipment	2013	176	250	0.40741	0.342	1.48037	5.25206	0.005	0.18	0.166	519.5215	0.153
Paving Equipment	2014	16	25	1.253528	1.053	4.95215	5.18385	0.005	0.437	0.402	569.4822	0.168
Paving Equipment	2014	26	50	1.253528	1.053	4.95215	5.18385	0.005	0.437	0.402	569.4822	0.168
Paving Equipment	2014	51	120	0.805438	0.677	3.83664	6.36952	0.005	0.486	0.447	518.0756	0.153
Paving Equipment	2014	121	175	0.494038	0.415	3.09686	5.21567	0.005	0.249	0.229	515.0343	0.152
Paving Equipment	2014	176	250	0.369032	0.31	1.37011	4.78232	0.005	0.158	0.146	516.8998	0.153
Paving Equipment	2015	16	25	1.166929	0.981	4.86895	5.02757	0.005	0.407	0.374	563.5534	0.168
Paving Equipment	2015	26	50	1.166929	0.981	4.86895	5.02757	0.005	0.407	0.374	563.5534	0.168
Paving Equipment	2015	51	120	0.786628	0.661	3.83329	6.14454	0.005	0.471	0.433	513.1672	0.153
Paving Equipment	2015	121	175	0.48887	0.411	3.10403	4.96561	0.005	0.242	0.223	509.8942	0.152
Paving Equipment	2015	176	250	0.374849	0.315	1.37947	4.77176	0.005	0.159	0.146	511.6544	0.153
Paving Equipment	2016	16	25	1.178909	0.991	4.93662	4.98487	0.005	0.403	0.371	557.7058	0.168
Paving Equipment	2016	26	50	1.178909	0.991	4.93662	4.98487	0.005	0.403	0.371	557.7058	0.168
Paving Equipment	2016	51	120	0.741701	0.623	3.79639	5.7333	0.005	0.438	0.403	507.9102	0.153
Paving Equipment	2016	121	175	0.442497	0.372	3.08114	4.3217	0.005	0.214	0.197	504.8201	0.152
Paving Equipment	2016	176	250	0.353542	0.297	1.33145	4.42821	0.005	0.148	0.136	506.1965	0.153
Paving Equipment	2017	16	25	1.102141	0.926	4.80403	4.72756	0.005	0.359	0.33	548.6481	0.168
Paving Equipment	2017	26	50	1.102141	0.926	4.80403	4.72756	0.005	0.359	0.33	548.6481	0.168
Paving Equipment	2017	51	120	0.670017	0.563	3.74146	5.20745	0.005	0.391	0.359	500.1649	0.153
Paving Equipment	2017	121	175	0.407568	0.342	3.07321	3.89633	0.005	0.195	0.179	497.148	0.152
Paving Equipment	2017	176	250	0.342633	0.288	1.333	4.12109	0.005	0.141	0.13	498.7323	0.153
Paving Equipment	2018	16	25	0.877571	0.737	4.41578	4.31244	0.005	0.286	0.263	540.6115	0.168
Paving Equipment	2018	26	50	0.877571	0.737	4.41578	4.31244	0.005	0.286	0.263	540.6115	0.168
Paving Equipment	2018	51	120	0.534861	0.449	3.60743	4.27034	0.005	0.302	0.278	492.1184	0.153
Paving Equipment	2018	121	175	0.337615	0.284	3.02602	3.17208	0.005	0.155	0.143	489.2024	0.152
Paving Equipment	2018	176	250	0.307374	0.258	1.28117	3.58656	0.005	0.123	0.113	490.6833	0.153
Paving Equipment	2019	16	25	0.838543	0.705	4.40798	4.23779	0.005	0.27	0.248	531.8612	0.168
Paving Equipment	2019	26	50	0.838543	0.705	4.40798	4.23779	0.005	0.27	0.248	531.8612	0.168
Paving Equipment	2019	51	120	0.50594	0.425	3.59849	4.04152	0.005	0.281	0.258	484.387	0.153
Paving Equipment	2019	121	175	0.302373	0.254	3.0109	2.6924	0.005	0.134	0.123	481.2251	0.152
Paving Equipment	2019	176	250	0.286526	0.241	1.24449	3.25106	0.005	0.112	0.103	482.6441	0.153
Paving Equipment	2020	16	25	0.73951	0.621	4.22322	3.9519	0.005	0.217	0.2	520.1235	0.168
Paving Equipment	2020	26	50	0.73951	0.621	4.22322	3.9519	0.005	0.217	0.2	520.1235	0.168
Paving Equipment	2020	51	120	0.472907	0.397	3.58172	3.78064	0.005	0.256	0.235	473.3249	0.153
Paving Equipment	2020	121	175	0.294586	0.248	3.02393	2.55498	0.005	0.128	0.118	470.7359	0.152
Paving Equipment	2020	176	250	0.289784	0.243	1.25215	3.2202	0.005	0.111	0.102	472.1514	0.153
Paving Equipment	2021	16	25	0.698022	0.587	4.21072	3.88226	0.005	0.2	0.184	520.3965	0.168
Paving Equipment	2021	26	50	0.698022	0.587	4.21072	3.88226	0.005	0.2	0.184	520.3965	0.168
Paving Equipment	2021	51	120	0.422572	0.355	3.5537	3.45065	0.005	0.219	0.201	473.2205	0.153
Paving Equipment	2021	121	175	0.272687	0.229	3.03229	2.31505	0.005	0.114	0.105	470.6495	0.152
Paving Equipment	2021	176	250	0.250607	0.211	1.20904	2.58202	0.005	0.092	0.085	472.151	0.153

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Paving Equipment	2022	16	25	0.68013	0.571	4.24448	3.83611	0.005	0.188	0.173	520.6594	0.168
Paving Equipment	2022	26	50	0.68013	0.571	4.24448	3.83611	0.005	0.188	0.173	520.6594	0.168
Paving Equipment	2022	51	120	0.351718	0.296	3.50075	2.99968	0.005	0.171	0.157	473.4475	0.153
Paving Equipment	2022	121	175	0.253077	0.213	3.03777	2.07331	0.005	0.101	0.093	470.6646	0.152
Paving Equipment	2022	176	250	0.232653	0.195	1.20363	2.22813	0.005	0.083	0.076	472.169	0.153
Paving Equipment	2023	16	25	0.644074	0.541	4.24108	3.77446	0.005	0.173	0.159	521.1138	0.169
Paving Equipment	2023	26	50	0.644074	0.541	4.24108	3.77446	0.005	0.173	0.159	521.1138	0.169
Paving Equipment	2023	51	120	0.331302	0.278	3.50331	2.83717	0.005	0.152	0.14	473.427	0.153
Paving Equipment	2023	121	175	0.242414	0.204	3.05059	1.91255	0.005	0.093	0.086	470.663	0.152
Paving Equipment	2023	176	250	0.208228	0.175	1.16523	1.88495	0.005	0.07	0.065	472.169	0.153
Paving Equipment	2024	16	25	0.622364	0.523	4.27468	3.74329	0.005	0.164	0.151	521.0575	0.169
Paving Equipment	2024	26	50	0.622364	0.523	4.27468	3.74329	0.005	0.164	0.151	521.0575	0.169
Paving Equipment	2024	51	120	0.311995	0.262	3.50288	2.67309	0.005	0.135	0.125	473.1748	0.153
Paving Equipment	2024	121	175	0.233948	0.197	3.06623	1.78512	0.005	0.086	0.079	470.6614	0.152
Paving Equipment	2024	176	250	0.164733	0.138	1.11417	1.29567	0.005	0.048	0.044	472.2124	0.153
Paving Equipment	2025	16	25	0.566694	0.476	4.20347	3.62672	0.005	0.141	0.13	520.9975	0.169
Paving Equipment	2025	26	50	0.566694	0.476	4.20347	3.62672	0.005	0.141	0.13	520.9975	0.169
Paving Equipment	2025	51	120	0.287394	0.241	3.48256	2.49628	0.005	0.118	0.108	473.4239	0.153
Paving Equipment	2025	121	175	0.208465	0.175	3.03837	1.509	0.005	0.075	0.069	470.4844	0.152
Paving Equipment	2025	176	250	0.158556	0.133	1.11653	1.10952	0.005	0.043	0.04	472.2341	0.153
Paving Equipment	2030	16	25	1.628	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Paving Equipment	2030	26	50	3.613	0.802	5.309	3.809	0.007	0.126	0.126	568.299	0.072
Paving Equipment	2030	51	120	4.007	0.39	3.774	2.393	0.006	0.114	0.114	568.3	0.035
Paving Equipment	2030	121	175	5.525	0.29	3.306	1.363	0.006	0.07	0.07	568.299	0.026
Paving Equipment	2030	176	250	5.771	0.25	1.171	1.176	0.006	0.042	0.042	568.299	0.022
Paving Equipment	2035	16	25	1.628	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Paving Equipment	2035	26	50	2.991	0.664	5.181	3.511	0.007	0.07	0.07	568.3	0.059
Paving Equipment	2035	51	120	3.343	0.326	3.753	1.928	0.006	0.064	0.064	568.299	0.029
Paving Equipment	2035	121	175	4.485	0.235	3.303	0.832	0.006	0.04	0.04	568.299	0.021
Paving Equipment	2035	176	250	4.886	0.212	1.14	0.714	0.006	0.024	0.024	568.299	0.019
Paving Equipment	2040	16	25	1.628	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Paving Equipment	2040	26	50	2.651	0.589	5.111	3.361	0.007	0.042	0.042	568.3	0.053
Paving Equipment	2040	51	120	2.989	0.291	3.744	1.687	0.006	0.039	0.039	568.299	0.026
Paving Equipment	2040	121	175	3.901	0.205	3.304	0.536	0.006	0.025	0.025	568.299	0.018
Paving Equipment	2040	176	250	4.452	0.193	1.127	0.485	0.006	0.017	0.017	568.299	0.017
Plate Compactors	1990	6	15	2.156	1.804	4.999	9.999	1.049	0.975	0.975	568.299	0.162
Plate Compactors	2000	6	15	1.852	1.55	4.606	8.519	0.079	0.708	0.708	568.299	0.139
Plate Compactors	2005	6	15	0.955	0.799	3.503	5.435	0.079	0.377	0.377	568.299	0.072
Plate Compactors	2010	6	15	0.794	0.664	3.469	4.178	0.008	0.198	0.198	568.299	0.059
Plate Compactors	2011	6	15	0.791	0.662	3.469	4.15	0.008	0.172	0.172	568.299	0.059
Plate Compactors	2012	6	15	0.79	0.661	3.469	4.142	0.008	0.165	0.165	568.3	0.059
Plate Compactors	2013	6	15	0.79	0.661	3.469	4.142	0.008	0.162	0.162	568.3	0.059
Plate Compactors	2014	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2015	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2016	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2017	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2018	6	15	0.79	0.661	3.47	4.142	0.008	0.161	0.161	568.3	0.059
Plate Compactors	2019	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2020	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2021	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2022	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2023	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2024	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2025	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2030	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2035	6	15	0.79	0.661	3.47	4.142	0.008	0.161	0.161	568.299	0.059
Plate Compactors	2040	6	15	0.79	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Pressure Washers	1990	6	15	4.972	1.804	4.999	9.999	1.018	0.974	0.974	568.299	0.162
Pressure Washers	1990	16	25	8.915	2.213	5	6.92	0.83	0.74	0.74	568.3	0.199
Pressure Washers	1990	26	50	20.959	2.601	5.721	7.129	0.846	0.821	0.821	568.299	0.234
Pressure Washers	1990	51	120	23.659	1.743	4.735	12.634	0.768	0.874	0.874	568.299	0.157
Pressure Washers	1990	121	175	82.001	1.272	4.353	11.763	1.123	0.649	0.649	568.299	0.114
Pressure Washers	1990	176	250	77.237	0.953	3.084	9.035	1.077	0.476	0.476	568.299	0.086
Pressure Washers	2000	6	15	4.186	1.518	4.875	8.846	0.079	0.613	0.613	568.299	0.137
Pressure Washers	2000	16	25	6.717	1.667	4.783	6.405	0.065	0.51	0.51	568.299	0.15
Pressure Washers	2000	26	50	19.934	2.474	5.524	6.381	0.066	0.615	0.615	568.3	0.223
Pressure Washers	2000	51	120	19.23	1.417	3.967	9.062	0.06	0.613	0.613	568.3	0.127
Pressure Washers	2000	121	175	66.055	1.024	3.38	8.685	0.059	0.399	0.399	568.299	0.092
Pressure Washers	2000	176	250	35.508	0.438	1.005	6.315	0.058	0.143	0.143	568.299	0.039
Pressure Washers	2005	6	15	3.341	1.212	4.38	7.615	0.079	0.505	0.505	568.3	0.109
Pressure Washers	2005	16	25	5.048	1.253	3.922	6.014	0.065	0.432	0.432	568.299	0.113

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Pressure Washers	2005	26	50	17.362	2.154	5.075	5.932	0.066	0.566	0.566	568.299	0.194
Pressure Washers	2005	51	120	16.424	1.21	3.682	7.651	0.06	0.566	0.566	568.299	0.109
Pressure Washers	2005	121	175	55.65	0.863	3.072	7.441	0.059	0.349	0.349	568.299	0.077
Pressure Washers	2005	176	250	21.871	0.27	0.986	4.822	0.058	0.111	0.111	568.299	0.024
Pressure Washers	2010	6	15	2.628	0.953	4.027	6.387	0.008	0.38	0.38	568.299	0.086
Pressure Washers	2010	16	25	3.872	0.961	3.309	5.477	0.007	0.342	0.342	568.299	0.086
Pressure Washers	2010	26	50	13.073	1.622	4.517	5.501	0.007	0.453	0.453	568.299	0.146
Pressure Washers	2010	51	120	12.296	0.906	3.503	6.273	0.006	0.451	0.451	568.299	0.081
Pressure Washers	2010	121	175	41.062	0.637	2.967	5.773	0.006	0.275	0.275	568.299	0.057
Pressure Washers	2010	176	250	16.502	0.203	0.986	2.5	0.006	0.1	0.1	568.299	0.018
Pressure Washers	2011	6	15	2.504	0.908	3.952	6.134	0.008	0.358	0.358	568.299	0.081
Pressure Washers	2011	16	25	3.706	0.92	3.179	5.36	0.007	0.325	0.325	568.299	0.083
Pressure Washers	2011	26	50	12.056	1.496	4.382	5.405	0.007	0.428	0.428	568.299	0.135
Pressure Washers	2011	51	120	11.392	0.839	3.468	5.939	0.006	0.43	0.43	568.299	0.075
Pressure Washers	2011	121	175	38.303	0.594	2.953	5.441	0.006	0.263	0.263	568.299	0.053
Pressure Washers	2011	176	250	15.247	0.188	0.986	2.086	0.006	0.072	0.072	568.299	0.016
Pressure Washers	2012	6	15	2.385	0.865	3.874	5.874	0.008	0.338	0.338	568.299	0.078
Pressure Washers	2012	16	25	3.564	0.884	3.043	5.239	0.007	0.307	0.307	568.299	0.079
Pressure Washers	2012	26	50	10.983	1.363	4.238	5.306	0.007	0.402	0.402	568.299	0.123
Pressure Washers	2012	51	120	10.457	0.77	3.433	5.578	0.006	0.4	0.4	568.299	0.069
Pressure Washers	2012	121	175	35.56	0.551	2.941	5.109	0.006	0.244	0.244	568.299	0.049
Pressure Washers	2012	176	250	13.887	0.171	0.986	1.749	0.006	0.046	0.046	568.299	0.015
Pressure Washers	2013	6	15	2.27	0.823	3.796	5.616	0.008	0.318	0.318	568.299	0.074
Pressure Washers	2013	16	25	3.431	0.851	2.907	5.117	0.007	0.289	0.289	568.299	0.076
Pressure Washers	2013	26	50	9.897	1.228	4.092	5.086	0.007	0.367	0.367	568.299	0.11
Pressure Washers	2013	51	120	9.523	0.701	3.399	5.226	0.006	0.366	0.366	568.299	0.063
Pressure Washers	2013	121	175	32.885	0.51	2.931	4.803	0.006	0.225	0.225	568.299	0.046
Pressure Washers	2013	176	250	12.508	0.154	0.986	1.468	0.006	0.021	0.021	568.299	0.013
Pressure Washers	2014	6	15	2.16	0.783	3.723	5.369	0.008	0.298	0.298	568.299	0.07
Pressure Washers	2014	16	25	3.308	0.821	2.78	5	0.007	0.272	0.272	568.299	0.074
Pressure Washers	2014	26	50	8.833	1.096	3.951	4.873	0.007	0.332	0.332	568.299	0.098
Pressure Washers	2014	51	120	8.608	0.634	3.367	4.912	0.006	0.332	0.332	568.299	0.057
Pressure Washers	2014	121	175	30.292	0.469	2.923	4.513	0.006	0.206	0.206	568.299	0.042
Pressure Washers	2014	176	250	11.167	0.137	0.986	1.047	0.006	0.014	0.014	568.299	0.012
Pressure Washers	2015	6	15	2.059	0.747	3.657	5.141	0.008	0.28	0.28	568.299	0.067
Pressure Washers	2015	16	25	3.196	0.793	2.666	4.89	0.007	0.256	0.256	568.299	0.071
Pressure Washers	2015	26	50	7.868	0.976	3.833	4.685	0.007	0.3	0.3	568.299	0.088
Pressure Washers	2015	51	120	7.703	0.567	3.336	4.551	0.006	0.297	0.297	568.299	0.051
Pressure Washers	2015	121	175	27.567	0.427	2.917	4.115	0.006	0.187	0.187	568.299	0.038
Pressure Washers	2015	176	250	9.864	0.121	0.986	0.69	0.006	0.01	0.01	568.299	0.01
Pressure Washers	2016	6	15	1.986	0.72	3.622	4.978	0.008	0.264	0.264	568.299	0.065
Pressure Washers	2016	16	25	3.116	0.773	2.604	4.803	0.007	0.244	0.244	568.299	0.069
Pressure Washers	2016	26	50	6.97	0.865	3.729	4.515	0.007	0.269	0.269	568.299	0.078
Pressure Washers	2016	51	120	6.839	0.504	3.308	4.209	0.006	0.264	0.264	568.299	0.045
Pressure Washers	2016	121	175	24.906	0.386	2.913	3.726	0.006	0.168	0.168	568.299	0.034
Pressure Washers	2016	176	250	8.667	0.107	0.986	0.399	0.006	0.009	0.009	568.299	0.009
Pressure Washers	2017	6	15	1.927	0.699	3.599	4.847	0.008	0.25	0.25	568.299	0.063
Pressure Washers	2017	16	25	3.053	0.757	2.564	4.729	0.007	0.233	0.233	568.299	0.068
Pressure Washers	2017	26	50	6.126	0.76	3.632	4.355	0.007	0.24	0.24	568.299	0.068
Pressure Washers	2017	51	120	6.031	0.444	3.283	3.888	0.006	0.233	0.233	568.3	0.04
Pressure Washers	2017	121	175	22.349	0.346	2.91	3.349	0.006	0.149	0.149	568.299	0.031
Pressure Washers	2017	176	250	8.288	0.102	0.986	0.317	0.006	0.009	0.009	568.299	0.009
Pressure Washers	2018	6	15	1.874	0.679	3.58	4.728	0.008	0.237	0.237	568.299	0.061
Pressure Washers	2018	16	25	2.997	0.744	2.531	4.661	0.007	0.224	0.224	568.299	0.067
Pressure Washers	2018	26	50	5.332	0.661	3.542	4.202	0.007	0.212	0.212	568.299	0.059
Pressure Washers	2018	51	120	5.276	0.388	3.26	3.584	0.006	0.203	0.203	568.299	0.035
Pressure Washers	2018	121	175	19.96	0.309	2.908	2.989	0.006	0.132	0.132	568.299	0.027
Pressure Washers	2018	176	250	8.072	0.099	0.986	0.277	0.006	0.009	0.009	568.299	0.008
Pressure Washers	2019	6	15	1.824	0.662	3.562	4.617	0.008	0.224	0.224	568.299	0.059
Pressure Washers	2019	16	25	2.947	0.731	2.501	4.596	0.007	0.214	0.214	568.299	0.066
Pressure Washers	2019	26	50	4.585	0.569	3.457	4.053	0.007	0.184	0.184	568.299	0.051
Pressure Washers	2019	51	120	4.575	0.337	3.24	3.295	0.006	0.174	0.174	568.299	0.03
Pressure Washers	2019	121	175	18.102	0.28	2.907	2.67	0.006	0.117	0.117	568.299	0.025
Pressure Washers	2019	176	250	8.005	0.098	0.986	0.265	0.006	0.009	0.009	568.299	0.008
Pressure Washers	2020	6	15	1.78	0.646	3.546	4.516	0.008	0.212	0.212	568.299	0.058
Pressure Washers	2020	16	25	2.904	0.721	2.473	4.538	0.007	0.205	0.205	568.299	0.065
Pressure Washers	2020	26	50	4.025	0.499	3.393	3.917	0.007	0.161	0.161	568.299	0.045
Pressure Washers	2020	51	120	4.048	0.298	3.225	3.036	0.006	0.151	0.151	568.299	0.026
Pressure Washers	2020	121	175	16.638	0.258	2.907	2.383	0.006	0.104	0.104	568.299	0.023
Pressure Washers	2020	176	250	8.005	0.098	0.986	0.265	0.006	0.009	0.009	568.299	0.008
Pressure Washers	2021	6	15	1.747	0.634	3.531	4.441	0.008	0.201	0.201	568.299	0.057

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Pressure Washers	2021	16	25	2.87	0.712	2.446	4.497	0.007	0.196	0.196	568.299	0.064
Pressure Washers	2021	26	50	3.542	0.439	3.329	3.765	0.007	0.136	0.136	568.299	0.039
Pressure Washers	2021	51	120	3.592	0.264	3.21	2.766	0.006	0.129	0.129	568.299	0.023
Pressure Washers	2021	121	175	15.389	0.238	2.907	2.118	0.006	0.093	0.093	568.299	0.021
Pressure Washers	2021	176	250	8.005	0.098	0.986	0.265	0.006	0.009	0.009	568.299	0.008
Pressure Washers	2022	6	15	1.725	0.626	3.519	4.39	0.008	0.193	0.193	568.299	0.056
Pressure Washers	2022	16	25	2.847	0.706	2.426	4.47	0.007	0.188	0.188	568.299	0.063
Pressure Washers	2022	26	50	3.213	0.398	3.291	3.649	0.007	0.117	0.117	568.3	0.035
Pressure Washers	2022	51	120	3.281	0.241	3.202	2.56	0.006	0.112	0.112	568.299	0.021
Pressure Washers	2022	121	175	14.252	0.221	2.907	1.871	0.006	0.082	0.082	568.299	0.019
Pressure Washers	2022	176	250	8.005	0.098	0.986	0.265	0.006	0.009	0.009	568.299	0.008
Pressure Washers	2023	6	15	1.706	0.618	3.508	4.345	0.008	0.186	0.186	568.299	0.055
Pressure Washers	2023	16	25	2.827	0.701	2.407	4.447	0.007	0.182	0.182	568.299	0.063
Pressure Washers	2023	26	50	2.928	0.363	3.26	3.541	0.007	0.101	0.101	568.299	0.032
Pressure Washers	2023	51	120	3.012	0.222	3.196	2.377	0.006	0.097	0.097	568.299	0.02
Pressure Washers	2023	121	175	13.244	0.205	2.907	1.665	0.006	0.072	0.072	568.299	0.018
Pressure Washers	2023	176	250	8.005	0.098	0.986	0.265	0.006	0.009	0.009	568.299	0.008
Pressure Washers	2024	6	15	1.689	0.612	3.499	4.305	0.008	0.181	0.181	568.299	0.055
Pressure Washers	2024	16	25	2.811	0.697	2.39	4.426	0.007	0.178	0.178	568.299	0.062
Pressure Washers	2024	26	50	2.685	0.333	3.233	3.441	0.007	0.087	0.087	568.299	0.03
Pressure Washers	2024	51	120	2.78	0.204	3.191	2.229	0.006	0.084	0.084	568.299	0.018
Pressure Washers	2024	121	175	12.332	0.191	2.907	1.482	0.006	0.062	0.062	568.299	0.017
Pressure Washers	2024	176	250	8.005	0.098	0.986	0.265	0.006	0.009	0.009	568.299	0.008
Pressure Washers	2025	6	15	1.674	0.607	3.491	4.269	0.008	0.178	0.178	568.299	0.054
Pressure Washers	2025	16	25	2.797	0.694	2.376	4.407	0.007	0.175	0.175	568.299	0.062
Pressure Washers	2025	26	50	2.472	0.306	3.21	3.344	0.007	0.075	0.075	568.299	0.027
Pressure Washers	2025	51	120	2.575	0.189	3.186	2.1	0.006	0.072	0.072	568.299	0.017
Pressure Washers	2025	121	175	11.476	0.178	2.907	1.31	0.006	0.053	0.053	568.299	0.016
Pressure Washers	2025	176	250	8.005	0.098	0.986	0.265	0.006	0.009	0.009	568.299	0.008
Pressure Washers	2030	6	15	1.632	0.592	3.47	4.164	0.008	0.166	0.166	568.3	0.053
Pressure Washers	2030	16	25	2.766	0.686	2.34	4.347	0.007	0.165	0.165	568.299	0.061
Pressure Washers	2030	26	50	1.735	0.215	3.124	2.989	0.007	0.03	0.03	568.299	0.019
Pressure Washers	2030	51	120	1.821	0.134	3.167	1.594	0.006	0.028	0.028	568.3	0.012
Pressure Washers	2030	121	175	8.178	0.126	2.907	0.619	0.006	0.024	0.024	568.299	0.011
Pressure Washers	2030	176	250	8.005	0.098	0.986	0.265	0.006	0.009	0.009	568.299	0.008
Pressure Washers	2035	6	15	1.624	0.589	3.47	4.143	0.008	0.162	0.162	568.3	0.053
Pressure Washers	2035	16	25	2.761	0.685	2.34	4.332	0.007	0.162	0.162	568.299	0.061
Pressure Washers	2035	26	50	1.515	0.188	3.101	2.882	0.007	0.015	0.015	568.299	0.016
Pressure Washers	2035	51	120	1.58	0.116	3.161	1.421	0.006	0.014	0.014	568.299	0.01
Pressure Washers	2035	121	175	7.052	0.109	2.907	0.382	0.006	0.013	0.013	568.299	0.009
Pressure Washers	2035	176	250	8.005	0.098	0.986	0.265	0.006	0.009	0.009	568.299	0.008
Pressure Washers	2040	6	15	1.624	0.589	3.469	4.142	0.008	0.161	0.161	568.299	0.053
Pressure Washers	2040	16	25	2.761	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Pressure Washers	2040	26	50	1.5	0.186	3.098	2.836	0.007	0.01	0.01	568.299	0.016
Pressure Washers	2040	51	120	1.54	0.113	3.16	1.365	0.006	0.01	0.01	568.299	0.01
Pressure Washers	2040	121	175	6.649	0.103	2.907	0.293	0.006	0.01	0.01	568.299	0.009
Pressure Washers	2040	176	250	8.005	0.098	0.986	0.265	0.006	0.009	0.009	568.299	0.008
Pumps	1990	6	15	3.929	1.804	4.999	10	1.018	0.974	0.974	568.299	0.162
Pumps	1990	16	25	12.652	2.213	4.999	6.92	0.83	0.74	0.74	568.299	0.199
Pumps	1990	26	50	33.318	3.307	7.004	7.391	0.846	0.964	0.964	568.299	0.298
Pumps	1990	51	120	44.398	1.941	5.049	13.378	0.768	1.022	1.022	568.299	0.175
Pumps	1990	121	175	54.599	1.328	4.466	12.036	0.736	0.678	0.678	568.299	0.119
Pumps	1990	176	250	78.462	1.328	4.466	12.036	0.736	0.678	0.678	568.299	0.119
Pumps	1990	251	500	123.784	1.222	7.034	11.736	0.642	0.614	0.614	568.3	0.11
Pumps	1990	501	750	204.643	1.222	7.034	11.736	0.658	0.614	0.614	568.299	0.11
Pumps	1990	1001	9999	484.933	1.22	7.034	11.736	0.658	0.612	0.612	568.299	0.11
Pumps	2000	6	15	3.754	1.723	4.875	9.08	0.079	0.747	0.747	568.299	0.155
Pumps	2000	16	25	11.979	2.095	4.783	6.405	0.065	0.569	0.569	568.299	0.189
Pumps	2000	26	50	31.461	3.123	6.715	6.608	0.066	0.718	0.718	568.299	0.281
Pumps	2000	51	120	36.02	1.575	4.223	9.604	0.06	0.711	0.711	568.3	0.142
Pumps	2000	121	175	43.406	1.055	3.435	8.734	0.057	0.419	0.419	568.299	0.095
Pumps	2000	176	250	51.67	0.874	2.707	8.397	0.057	0.339	0.339	568.299	0.078
Pumps	2000	251	500	83.09	0.82	3.956	8.188	0.05	0.311	0.311	568.299	0.074
Pumps	2000	501	750	137.368	0.82	3.956	8.188	0.051	0.311	0.311	568.299	0.074
Pumps	2000	1001	9999	372.377	0.936	4.533	8.775	0.051	0.351	0.351	568.299	0.084
Pumps	2005	6	15	3.036	1.394	4.38	7.817	0.079	0.621	0.621	568.299	0.125
Pumps	2005	16	25	9.278	1.622	3.922	6.014	0.065	0.483	0.483	568.299	0.146
Pumps	2005	26	50	27.809	2.76	6.203	6.155	0.066	0.664	0.664	568.299	0.249
Pumps	2005	51	120	30.825	1.348	3.91	8.1	0.06	0.657	0.657	568.3	0.121
Pumps	2005	121	175	36.106	0.878	3.114	7.408	0.057	0.363	0.363	568.299	0.079
Pumps	2005	176	250	36.853	0.623	1.836	6.99	0.057	0.239	0.239	568.299	0.056

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Pumps	2005	251	500	56.766	0.56	2.32	6.535	0.05	0.219	0.219	568.299	0.05
Pumps	2005	501	750	96.43	0.575	2.32	6.679	0.051	0.221	0.221	568.299	0.051
Pumps	2005	1001	9999	289.357	0.728	2.838	7.658	0.051	0.258	0.258	568.299	0.065
Pumps	2010	6	15	2.449	1.124	4.027	6.554	0.008	0.473	0.473	568.299	0.101
Pumps	2010	16	25	7.245	1.267	3.309	5.477	0.007	0.384	0.384	568.299	0.114
Pumps	2010	26	50	22.041	2.188	5.634	5.74	0.007	0.545	0.545	568.3	0.197
Pumps	2010	51	120	23.77	1.039	3.735	6.675	0.006	0.538	0.538	568.299	0.093
Pumps	2010	121	175	28.171	0.685	3.033	5.961	0.006	0.298	0.298	568.299	0.061
Pumps	2010	176	250	26.273	0.444	1.359	5.586	0.006	0.17	0.17	568.299	0.04
Pumps	2010	251	500	40.384	0.398	1.536	5.074	0.005	0.158	0.158	568.299	0.035
Pumps	2010	501	750	68.724	0.41	1.536	5.207	0.005	0.161	0.161	568.299	0.037
Pumps	2010	1001	9999	218.911	0.55	1.991	6.617	0.005	0.196	0.196	568.299	0.049
Pumps	2011	6	15	2.324	1.067	3.952	6.283	0.008	0.441	0.441	568.299	0.096
Pumps	2011	16	25	6.815	1.192	3.179	5.36	0.007	0.361	0.361	568.299	0.107
Pumps	2011	26	50	20.53	2.038	5.474	5.645	0.007	0.518	0.518	568.299	0.183
Pumps	2011	51	120	22.177	0.969	3.698	6.322	0.006	0.514	0.514	568.299	0.087
Pumps	2011	121	175	26.426	0.642	3.02	5.63	0.006	0.286	0.286	568.299	0.058
Pumps	2011	176	250	24.051	0.407	1.272	5.206	0.006	0.153	0.153	568.299	0.036
Pumps	2011	251	500	36.969	0.365	1.405	4.71	0.005	0.143	0.143	568.299	0.032
Pumps	2011	501	750	62.964	0.376	1.405	4.841	0.005	0.145	0.145	568.299	0.033
Pumps	2011	1001	9999	203.755	0.512	1.835	6.273	0.005	0.183	0.183	568.299	0.046
Pumps	2012	6	15	2.194	1.007	3.874	5.999	0.008	0.407	0.407	568.299	0.09
Pumps	2012	16	25	6.363	1.113	3.043	5.239	0.007	0.337	0.337	568.299	0.1
Pumps	2012	26	50	18.887	1.875	5.296	5.545	0.007	0.488	0.488	568.299	0.169
Pumps	2012	51	120	20.51	0.896	3.66	5.939	0.006	0.481	0.481	568.299	0.08
Pumps	2012	121	175	24.576	0.597	3.009	5.28	0.006	0.265	0.265	568.299	0.053
Pumps	2012	176	250	22.301	0.377	1.218	4.846	0.006	0.139	0.139	568.299	0.034
Pumps	2012	251	500	34.322	0.338	1.311	4.367	0.005	0.13	0.13	568.299	0.03
Pumps	2012	501	750	58.469	0.349	1.311	4.495	0.005	0.132	0.132	568.299	0.031
Pumps	2012	1001	9999	188.287	0.473	1.682	5.916	0.005	0.168	0.168	568.299	0.042
Pumps	2013	6	15	2.065	0.948	3.796	5.716	0.008	0.373	0.373	568.299	0.085
Pumps	2013	16	25	5.914	1.034	2.907	5.117	0.007	0.314	0.314	568.3	0.093
Pumps	2013	26	50	17.185	1.706	5.11	5.323	0.007	0.448	0.448	568.299	0.153
Pumps	2013	51	120	18.831	0.823	3.623	5.563	0.006	0.443	0.443	568.299	0.074
Pumps	2013	121	175	22.712	0.552	2.998	4.949	0.006	0.244	0.244	568.299	0.049
Pumps	2013	176	250	20.801	0.352	1.181	4.498	0.006	0.127	0.127	568.3	0.031
Pumps	2013	251	500	32.081	0.316	1.241	4.037	0.005	0.119	0.119	568.299	0.028
Pumps	2013	501	750	54.658	0.326	1.241	4.163	0.005	0.121	0.121	568.299	0.029
Pumps	2013	1001	9999	173.151	0.435	1.538	5.558	0.005	0.154	0.154	568.299	0.039
Pumps	2014	6	15	1.942	0.891	3.723	5.445	0.008	0.341	0.341	568.299	0.08
Pumps	2014	16	25	5.492	0.96	2.78	5	0.007	0.291	0.291	568.299	0.086
Pumps	2014	26	50	15.493	1.538	4.929	5.107	0.007	0.409	0.409	568.299	0.138
Pumps	2014	51	120	17.179	0.751	3.587	5.226	0.006	0.403	0.403	568.299	0.067
Pumps	2014	121	175	20.895	0.508	2.989	4.635	0.006	0.222	0.222	568.299	0.045
Pumps	2014	176	250	19.3	0.326	1.149	4.09	0.006	0.115	0.115	568.299	0.029
Pumps	2014	251	500	29.829	0.294	1.181	3.648	0.005	0.108	0.108	568.299	0.026
Pumps	2014	501	750	50.824	0.303	1.181	3.77	0.005	0.11	0.11	568.299	0.027
Pumps	2014	1001	9999	158.959	0.399	1.406	5.21	0.005	0.141	0.141	568.299	0.036
Pumps	2015	6	15	1.831	0.84	3.658	5.196	0.008	0.311	0.311	568.299	0.075
Pumps	2015	16	25	5.112	0.894	2.666	4.89	0.007	0.27	0.27	568.299	0.08
Pumps	2015	26	50	13.946	1.384	4.775	4.916	0.007	0.371	0.371	568.3	0.124
Pumps	2015	51	120	15.537	0.679	3.554	4.842	0.006	0.364	0.364	568.3	0.061
Pumps	2015	121	175	18.983	0.461	2.983	4.202	0.006	0.2	0.2	568.299	0.041
Pumps	2015	176	250	17.881	0.302	1.122	3.693	0.006	0.104	0.104	568.299	0.027
Pumps	2015	251	500	27.722	0.273	1.134	3.272	0.005	0.097	0.097	568.299	0.024
Pumps	2015	501	750	47.213	0.281	1.134	3.389	0.005	0.099	0.099	568.299	0.025
Pumps	2015	1001	9999	144.304	0.363	1.293	4.878	0.005	0.127	0.127	568.299	0.032
Pumps	2016	6	15	1.762	0.809	3.622	5.023	0.008	0.289	0.289	568.299	0.073
Pumps	2016	16	25	4.893	0.855	2.604	4.803	0.007	0.255	0.255	568.299	0.077
Pumps	2016	26	50	12.497	1.24	4.64	4.742	0.007	0.335	0.335	568.299	0.111
Pumps	2016	51	120	13.964	0.61	3.523	4.478	0.006	0.325	0.325	568.299	0.055
Pumps	2016	121	175	17.155	0.417	2.978	3.789	0.006	0.179	0.179	568.299	0.037
Pumps	2016	176	250	16.558	0.28	1.099	3.313	0.006	0.094	0.094	568.299	0.025
Pumps	2016	251	500	25.804	0.254	1.093	2.919	0.005	0.088	0.088	568.299	0.022
Pumps	2016	501	750	43.884	0.262	1.093	3.028	0.005	0.089	0.089	568.299	0.023
Pumps	2016	1001	9999	133.448	0.335	1.223	4.596	0.005	0.116	0.116	568.3	0.03
Pumps	2017	6	15	1.713	0.786	3.599	4.887	0.008	0.272	0.272	568.299	0.07
Pumps	2017	16	25	4.745	0.83	2.564	4.729	0.007	0.243	0.243	568.299	0.074
Pumps	2017	26	50	11.12	1.104	4.514	4.578	0.007	0.301	0.301	568.299	0.099
Pumps	2017	51	120	12.49	0.546	3.495	4.134	0.006	0.287	0.287	568.299	0.049
Pumps	2017	121	175	15.466	0.376	2.975	3.4	0.006	0.159	0.159	568.299	0.033

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Pumps	2017	176	250	15.375	0.26	1.08	2.958	0.006	0.084	0.084	568.299	0.023
Pumps	2017	251	500	24.243	0.239	1.062	2.613	0.005	0.079	0.079	568.299	0.021
Pumps	2017	501	750	40.958	0.244	1.062	2.695	0.005	0.08	0.08	568.299	0.022
Pumps	2017	1001	9999	124.604	0.313	1.177	4.343	0.005	0.106	0.106	568.299	0.028
Pumps	2018	6	15	1.669	0.766	3.58	4.762	0.008	0.256	0.256	568.299	0.069
Pumps	2018	16	25	4.618	0.807	2.531	4.661	0.007	0.232	0.232	568.299	0.072
Pumps	2018	26	50	9.809	0.973	4.397	4.422	0.007	0.267	0.267	568.299	0.087
Pumps	2018	51	120	11.107	0.485	3.471	3.808	0.006	0.252	0.252	568.299	0.043
Pumps	2018	121	175	13.918	0.338	2.974	3.035	0.006	0.14	0.14	568.299	0.03
Pumps	2018	176	250	14.304	0.242	1.065	2.624	0.006	0.075	0.075	568.299	0.021
Pumps	2018	251	500	22.927	0.226	1.041	2.34	0.005	0.071	0.071	568.299	0.02
Pumps	2018	501	750	38.511	0.23	1.041	2.401	0.005	0.072	0.072	568.299	0.02
Pumps	2018	1001	9999	116.529	0.293	1.144	4.105	0.005	0.098	0.098	568.299	0.026
Pumps	2019	6	15	1.63	0.748	3.562	4.647	0.008	0.241	0.241	568.3	0.067
Pumps	2019	16	25	4.503	0.787	2.501	4.596	0.007	0.222	0.222	568.3	0.071
Pumps	2019	26	50	8.56	0.849	4.284	4.269	0.007	0.235	0.235	568.299	0.076
Pumps	2019	51	120	9.812	0.429	3.449	3.497	0.006	0.217	0.217	568.299	0.038
Pumps	2019	121	175	12.706	0.309	2.974	2.711	0.006	0.124	0.124	568.299	0.027
Pumps	2019	176	250	13.378	0.226	1.052	2.323	0.006	0.067	0.067	568.299	0.02
Pumps	2019	251	500	21.711	0.214	1.027	2.084	0.005	0.064	0.064	568.3	0.019
Pumps	2019	501	750	36.35	0.217	1.027	2.133	0.005	0.065	0.065	568.299	0.019
Pumps	2019	1001	9999	108.825	0.273	1.118	3.873	0.005	0.089	0.089	568.299	0.024
Pumps	2020	6	15	1.593	0.731	3.546	4.542	0.008	0.227	0.227	568.299	0.066
Pumps	2020	16	25	4.396	0.769	2.473	4.538	0.007	0.212	0.212	568.299	0.069
Pumps	2020	26	50	7.613	0.755	4.197	4.128	0.007	0.206	0.206	568.299	0.068
Pumps	2020	51	120	8.832	0.386	3.432	3.219	0.006	0.189	0.189	568.299	0.034
Pumps	2020	121	175	11.744	0.285	2.974	2.418	0.006	0.111	0.111	568.299	0.025
Pumps	2020	176	250	12.575	0.212	1.042	2.05	0.006	0.06	0.06	568.299	0.019
Pumps	2020	251	500	20.565	0.203	1.017	1.841	0.005	0.057	0.057	568.3	0.018
Pumps	2020	501	750	34.373	0.205	1.017	1.884	0.005	0.058	0.058	568.299	0.018
Pumps	2020	1001	9999	101.462	0.255	1.096	3.649	0.005	0.081	0.081	568.3	0.023
Pumps	2021	6	15	1.563	0.717	3.531	4.462	0.008	0.214	0.214	568.299	0.064
Pumps	2021	16	25	4.302	0.752	2.446	4.497	0.007	0.201	0.201	568.299	0.067
Pumps	2021	26	50	6.761	0.671	4.099	3.966	0.007	0.175	0.175	568.299	0.06
Pumps	2021	51	120	7.94	0.347	3.412	2.928	0.006	0.162	0.162	568.3	0.031
Pumps	2021	121	175	10.713	0.26	2.968	2.101	0.006	0.096	0.096	568.299	0.023
Pumps	2021	176	250	11.658	0.197	1.031	1.759	0.006	0.052	0.052	568.299	0.017
Pumps	2021	251	500	19.186	0.189	1.007	1.584	0.005	0.05	0.05	568.299	0.017
Pumps	2021	501	750	32.005	0.191	1.007	1.618	0.005	0.05	0.05	568.299	0.017
Pumps	2021	1001	9999	92.954	0.233	1.074	3.409	0.005	0.072	0.072	568.3	0.021
Pumps	2022	6	15	1.54	0.707	3.519	4.408	0.008	0.203	0.203	568.299	0.063
Pumps	2022	16	25	4.229	0.739	2.426	4.47	0.007	0.193	0.193	568.299	0.066
Pumps	2022	26	50	6.194	0.614	4.048	3.846	0.007	0.152	0.152	568.299	0.055
Pumps	2022	51	120	7.351	0.321	3.404	2.708	0.006	0.142	0.142	568.299	0.029
Pumps	2022	121	175	9.985	0.242	2.969	1.86	0.006	0.085	0.085	568.299	0.021
Pumps	2022	176	250	11.025	0.186	1.025	1.534	0.006	0.045	0.045	568.299	0.016
Pumps	2022	251	500	18.249	0.18	1.001	1.404	0.005	0.044	0.044	568.3	0.016
Pumps	2022	501	750	30.396	0.181	1.001	1.432	0.005	0.044	0.044	568.3	0.016
Pumps	2022	1001	9999	87.313	0.219	1.058	3.236	0.005	0.065	0.065	568.299	0.019
Pumps	2023	6	15	1.521	0.698	3.508	4.359	0.008	0.194	0.194	568.299	0.063
Pumps	2023	16	25	4.165	0.728	2.407	4.447	0.007	0.186	0.186	568.299	0.065
Pumps	2023	26	50	5.699	0.565	4.007	3.734	0.007	0.131	0.131	568.299	0.051
Pumps	2023	51	120	6.838	0.299	3.398	2.511	0.006	0.123	0.123	568.299	0.026
Pumps	2023	121	175	9.349	0.227	2.971	1.662	0.006	0.075	0.075	568.299	0.02
Pumps	2023	176	250	10.47	0.177	1.021	1.351	0.006	0.04	0.04	568.299	0.015
Pumps	2023	251	500	17.411	0.171	0.998	1.246	0.005	0.038	0.038	568.3	0.015
Pumps	2023	501	750	28.971	0.173	0.998	1.271	0.005	0.039	0.039	568.299	0.015
Pumps	2023	1001	9999	82.523	0.207	1.043	3.09	0.005	0.059	0.059	568.299	0.018
Pumps	2024	6	15	1.503	0.69	3.499	4.316	0.008	0.188	0.188	568.299	0.062
Pumps	2024	16	25	4.107	0.718	2.39	4.426	0.007	0.181	0.181	568.299	0.064
Pumps	2024	26	50	5.272	0.523	3.974	3.63	0.007	0.114	0.114	568.299	0.047
Pumps	2024	51	120	6.391	0.279	3.393	2.352	0.006	0.107	0.107	568.299	0.025
Pumps	2024	121	175	8.769	0.213	2.973	1.486	0.006	0.065	0.065	568.299	0.019
Pumps	2024	176	250	9.948	0.168	1.018	1.189	0.006	0.034	0.034	568.3	0.015
Pumps	2024	251	500	16.61	0.164	0.994	1.098	0.005	0.033	0.033	568.299	0.014
Pumps	2024	501	750	27.614	0.164	0.994	1.12	0.005	0.034	0.034	568.299	0.014
Pumps	2024	1001	9999	78.184	0.196	1.031	2.96	0.005	0.054	0.054	568.299	0.017
Pumps	2025	6	15	1.488	0.683	3.491	4.278	0.008	0.183	0.183	568.299	0.061
Pumps	2025	16	25	4.058	0.709	2.376	4.407	0.007	0.177	0.177	568.299	0.064
Pumps	2025	26	50	4.891	0.485	3.943	3.528	0.007	0.099	0.099	568.299	0.043
Pumps	2025	51	120	5.988	0.261	3.389	2.213	0.006	0.092	0.092	568.299	0.023

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Pumps	2025	121	175	8.209	0.199	2.974	1.318	0.006	0.056	0.056	568.3	0.018
Pumps	2025	176	250	9.449	0.159	1.016	1.038	0.006	0.029	0.029	568.299	0.014
Pumps	2025	251	500	15.837	0.156	0.992	0.958	0.005	0.028	0.028	568.3	0.014
Pumps	2025	501	750	26.308	0.157	0.992	0.977	0.005	0.029	0.029	568.3	0.014
Pumps	2025	1001	9999	74.054	0.186	1.02	2.84	0.005	0.049	0.049	568.299	0.016
Pumps	2030	6	15	1.445	0.663	3.47	4.164	0.008	0.166	0.166	568.299	0.059
Pumps	2030	16	25	3.928	0.687	2.34	4.347	0.007	0.165	0.165	568.3	0.061
Pumps	2030	26	50	3.513	0.348	3.814	3.146	0.007	0.04	0.04	568.299	0.031
Pumps	2030	51	120	4.416	0.193	3.367	1.662	0.006	0.036	0.036	568.299	0.017
Pumps	2030	121	175	5.842	0.142	2.973	0.61	0.006	0.024	0.024	568.299	0.012
Pumps	2030	176	250	7.699	0.13	1.013	0.511	0.006	0.016	0.016	568.299	0.011
Pumps	2030	251	500	13.115	0.129	0.989	0.482	0.005	0.016	0.016	568.299	0.011
Pumps	2030	501	750	21.709	0.129	0.989	0.488	0.005	0.016	0.016	568.299	0.011
Pumps	2030	1001	9999	55.475	0.139	0.99	2.504	0.005	0.03	0.03	568.299	0.012
Pumps	2035	6	15	1.44	0.661	3.469	4.143	0.008	0.162	0.162	568.299	0.059
Pumps	2035	16	25	3.919	0.685	2.34	4.332	0.007	0.162	0.162	568.299	0.061
Pumps	2035	26	50	3.089	0.306	3.778	3.028	0.007	0.019	0.019	568.299	0.027
Pumps	2035	51	120	3.891	0.17	3.36	1.47	0.006	0.017	0.017	568.299	0.015
Pumps	2035	121	175	5.059	0.123	2.973	0.377	0.006	0.014	0.014	568.299	0.011
Pumps	2035	176	250	7.07	0.119	1.012	0.335	0.006	0.011	0.011	568.299	0.01
Pumps	2035	251	500	12.118	0.119	0.989	0.331	0.005	0.011	0.011	568.299	0.01
Pumps	2035	501	750	20.034	0.119	0.989	0.331	0.005	0.011	0.011	568.299	0.01
Pumps	2035	1001	9999	49.373	0.124	0.989	2.38	0.005	0.023	0.023	568.299	0.011
Pumps	2040	6	15	1.44	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Pumps	2040	16	25	3.919	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Pumps	2040	26	50	3.056	0.303	3.77	2.976	0.007	0.013	0.013	568.299	0.027
Pumps	2040	51	120	3.777	0.165	3.358	1.41	0.006	0.012	0.012	568.299	0.014
Pumps	2040	121	175	4.771	0.116	2.971	0.295	0.006	0.01	0.01	568.299	0.01
Pumps	2040	176	250	6.779	0.114	1.012	0.279	0.006	0.009	0.009	568.299	0.01
Pumps	2040	251	500	11.622	0.114	0.989	0.279	0.005	0.009	0.009	568.299	0.01
Pumps	2040	501	750	19.214	0.114	0.989	0.279	0.005	0.009	0.009	568.299	0.01
Pumps	2040	1001	9999	46.343	0.116	0.989	2.347	0.005	0.02	0.02	568.299	0.01
Rollers	1990	6	15	4.21	1.804	4.999	9.999	1.049	0.975	0.975	568.299	0.162
Rollers	1990	16	25	10.903	2.213	4.999	6.919	0.855	0.741	0.741	568.299	0.199
Rollers	1990	26	50	45.466	4.738	9.598	7.927	0.871	1.256	1.256	568.299	0.427
Rollers	1990	51	120	51.677	2.372	5.756	15.111	0.791	1.332	1.332	568.3	0.214
Rollers	1990	121	175	75.451	1.889	5.165	14.858	0.758	1.046	1.046	568.299	0.17
Rollers	1990	176	250	106.808	1.889	5.165	14.858	0.758	1.046	1.046	568.299	0.17
Rollers	1990	251	500	135.093	1.669	11.266	14.103	0.662	0.896	0.896	568.299	0.15
Rollers	2000	6	15	3.444	1.475	4.49	8.242	0.079	0.676	0.676	568.3	0.133
Rollers	2000	16	25	9.648	1.958	4.53	6.358	0.065	0.563	0.563	568.299	0.176
Rollers	2000	26	50	38.643	4.027	8.379	6.941	0.066	0.861	0.861	568.299	0.363
Rollers	2000	51	120	39.062	1.793	4.585	10.425	0.06	0.844	0.844	568.299	0.161
Rollers	2000	121	175	48.357	1.21	3.749	9.501	0.057	0.503	0.503	568.299	0.109
Rollers	2000	176	250	59.24	1.047	3.108	9.211	0.057	0.427	0.427	568.299	0.094
Rollers	2000	251	500	77.413	0.956	5.254	8.821	0.05	0.379	0.379	568.299	0.086
Rollers	2005	6	15	1.788	0.766	3.469	5.228	0.079	0.361	0.361	568.299	0.069
Rollers	2005	16	25	4.53	0.919	2.642	5.412	0.065	0.347	0.347	568.299	0.082
Rollers	2005	26	50	34.997	3.647	7.864	6.51	0.066	0.808	0.808	568.299	0.329
Rollers	2005	51	120	34.046	1.563	4.289	8.963	0.06	0.79	0.79	568.299	0.141
Rollers	2005	121	175	40.854	1.023	3.44	8.18	0.057	0.441	0.441	568.299	0.092
Rollers	2005	176	250	44.594	0.788	2.262	7.822	0.057	0.319	0.319	568.299	0.071
Rollers	2005	251	500	56.466	0.697	3.183	7.196	0.05	0.282	0.282	568.299	0.062
Rollers	2010	6	15	1.637529	1.376	5.19619	5.58863	0.005	0.516	0.475	584.6125	0.17
Rollers	2010	16	25	1.637529	1.376	5.19619	5.58863	0.005	0.516	0.475	584.6125	0.17
Rollers	2010	26	50	1.637529	1.376	5.19619	5.58863	0.005	0.516	0.475	584.6125	0.17
Rollers	2010	51	120	0.983879	0.827	3.91429	7.50147	0.005	0.56	0.516	527.6279	0.154
Rollers	2010	121	175	0.511697	0.43	3.00505	5.60543	0.005	0.264	0.243	524.1952	0.153
Rollers	2010	176	250	0.616159	0.518	2.19572	7.34127	0.005	0.268	0.247	526.2539	0.153
Rollers	2010	251	500	0.682816	0.574	4.92169	7.52047	0.005	0.313	0.288	533.878	0.155
Rollers	2011	6	15	1.599963	1.344	5.18315	5.5647	0.005	0.508	0.467	583.1085	0.17
Rollers	2011	16	25	1.599963	1.344	5.18315	5.5647	0.005	0.508	0.467	583.1085	0.17
Rollers	2011	26	50	1.599963	1.344	5.18315	5.5647	0.005	0.508	0.467	583.1085	0.17
Rollers	2011	51	120	0.924436	0.777	3.86451	7.13388	0.005	0.533	0.491	525.9391	0.153
Rollers	2011	121	175	0.498798	0.419	3.00845	5.44712	0.005	0.257	0.237	522.9396	0.153
Rollers	2011	176	250	0.556319	0.467	2.03431	6.69107	0.005	0.242	0.222	524.8924	0.153
Rollers	2011	251	500	0.597293	0.502	4.46947	6.64358	0.005	0.275	0.253	529.5965	0.155
Rollers	2012	6	15	1.624226	1.365	5.26844	5.568	0.005	0.511	0.471	581.6678	0.17
Rollers	2012	16	25	1.624226	1.365	5.26844	5.568	0.005	0.511	0.471	581.6678	0.17
Rollers	2012	26	50	1.624226	1.365	5.26844	5.568	0.005	0.511	0.471	581.6678	0.17
Rollers	2012	51	120	0.924087	0.776	3.87893	7.08604	0.005	0.534	0.491	524.5269	0.153

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Rollers	2012	121	175	0.497788	0.418	3.02294	5.38313	0.005	0.255	0.235	521.5511	0.153
Rollers	2012	176	250	0.555818	0.467	2.02691	6.64215	0.005	0.241	0.222	523.5608	0.153
Rollers	2012	251	500	0.604557	0.508	4.53336	6.66671	0.005	0.278	0.256	528.1357	0.155
Rollers	2013	6	15	1.5981	1.343	5.27142	5.50162	0.005	0.5	0.46	578.8662	0.17
Rollers	2013	16	25	1.5981	1.343	5.27142	5.50162	0.005	0.5	0.46	578.8662	0.17
Rollers	2013	26	50	1.5981	1.343	5.27142	5.50162	0.005	0.5	0.46	578.8662	0.17
Rollers	2013	51	120	0.873627	0.734	3.84356	6.74964	0.005	0.504	0.464	521.8163	0.153
Rollers	2013	121	175	0.468308	0.394	3.00794	5.11335	0.005	0.238	0.219	519.0689	0.153
Rollers	2013	176	250	0.495332	0.416	1.86858	5.94235	0.005	0.213	0.196	520.4083	0.153
Rollers	2013	251	500	0.470274	0.395	3.53436	5.43748	0.005	0.213	0.196	524.7654	0.154
Rollers	2014	6	15	1.556684	1.308	5.24275	5.39309	0.005	0.484	0.445	575.7953	0.17
Rollers	2014	16	25	1.556684	1.308	5.24275	5.39309	0.005	0.484	0.445	575.7953	0.17
Rollers	2014	26	50	1.556684	1.308	5.24275	5.39309	0.005	0.484	0.445	575.7953	0.17
Rollers	2014	51	120	0.827072	0.695	3.80915	6.39036	0.005	0.476	0.438	518.7866	0.153
Rollers	2014	121	175	0.43778	0.368	2.99804	4.72375	0.005	0.219	0.202	516.591	0.153
Rollers	2014	176	250	0.453642	0.381	1.75988	5.40344	0.005	0.191	0.176	517.8111	0.153
Rollers	2014	251	500	0.449616	0.378	3.3182	5.18322	0.005	0.202	0.185	522.0518	0.154
Rollers	2015	6	15	1.559602	1.31	5.29043	5.36547	0.005	0.481	0.443	569.9207	0.17
Rollers	2015	16	25	1.559602	1.31	5.29043	5.36547	0.005	0.481	0.443	569.9207	0.17
Rollers	2015	26	50	1.559602	1.31	5.29043	5.36547	0.005	0.481	0.443	569.9207	0.17
Rollers	2015	51	120	0.813228	0.683	3.80891	6.27158	0.005	0.467	0.43	513.5052	0.153
Rollers	2015	121	175	0.433087	0.364	3.00605	4.63035	0.005	0.215	0.198	511.3935	0.153
Rollers	2015	176	250	0.41293	0.347	1.65049	4.93191	0.005	0.171	0.157	512.8234	0.153
Rollers	2015	251	500	0.441373	0.371	3.24549	5.03147	0.005	0.195	0.179	517.2848	0.154
Rollers	2016	6	15	1.498736	1.259	5.23066	5.2356	0.005	0.459	0.423	563.9722	0.17
Rollers	2016	16	25	1.498736	1.259	5.23066	5.2356	0.005	0.459	0.423	563.9722	0.17
Rollers	2016	26	50	1.498736	1.259	5.23066	5.2356	0.005	0.459	0.423	563.9722	0.17
Rollers	2016	51	120	0.747631	0.628	3.75537	5.80563	0.005	0.428	0.393	508.1987	0.153
Rollers	2016	121	175	0.402004	0.338	2.99334	4.23872	0.005	0.197	0.181	505.9041	0.153
Rollers	2016	176	250	0.366563	0.308	1.50673	4.39492	0.005	0.15	0.138	507.6939	0.153
Rollers	2016	251	500	0.397483	0.334	2.95647	4.45617	0.005	0.173	0.159	513.4154	0.155
Rollers	2017	6	15	1.425352	1.198	5.14727	5.09771	0.005	0.436	0.401	555.0199	0.17
Rollers	2017	16	25	1.425352	1.198	5.14727	5.09771	0.005	0.436	0.401	555.0199	0.17
Rollers	2017	26	50	1.425352	1.198	5.14727	5.09771	0.005	0.436	0.401	555.0199	0.17
Rollers	2017	51	120	0.690109	0.58	3.71315	5.4114	0.005	0.392	0.361	500.1525	0.153
Rollers	2017	121	175	0.373471	0.314	2.98069	3.87384	0.005	0.18	0.166	497.9088	0.153
Rollers	2017	176	250	0.326364	0.274	1.40849	3.92097	0.005	0.129	0.119	499.7021	0.153
Rollers	2017	251	500	0.353236	0.297	2.68487	3.84047	0.005	0.15	0.138	505.8318	0.155
Rollers	2018	6	15	1.26668	1.064	4.92335	4.8416	0.005	0.387	0.356	546.2905	0.17
Rollers	2018	16	25	1.26668	1.064	4.92335	4.8416	0.005	0.387	0.356	546.2905	0.17
Rollers	2018	26	50	1.26668	1.064	4.92335	4.8416	0.005	0.387	0.356	546.2905	0.17
Rollers	2018	51	120	0.572467	0.481	3.60981	4.65049	0.005	0.32	0.294	492.2118	0.153
Rollers	2018	121	175	0.315632	0.265	2.94895	3.18126	0.005	0.147	0.135	490.1805	0.153
Rollers	2018	176	250	0.251419	0.211	1.24341	2.99492	0.005	0.094	0.086	491.6643	0.153
Rollers	2018	251	500	0.291314	0.245	2.23145	3.09814	0.005	0.119	0.11	497.9962	0.155
Rollers	2019	6	15	1.156606	0.972	4.77841	4.64491	0.005	0.349	0.321	537.546	0.17
Rollers	2019	16	25	1.156606	0.972	4.77841	4.64491	0.005	0.349	0.321	537.546	0.17
Rollers	2019	26	50	1.156606	0.972	4.77841	4.64491	0.005	0.349	0.321	537.546	0.17
Rollers	2019	51	120	0.502836	0.423	3.55726	4.17949	0.005	0.275	0.253	484.3362	0.153
Rollers	2019	121	175	0.27475	0.231	2.93251	2.69941	0.005	0.124	0.114	482.4531	0.153
Rollers	2019	176	250	0.250477	0.21	1.24854	2.88327	0.005	0.092	0.084	483.7769	0.153
Rollers	2019	251	500	0.278634	0.234	2.10142	2.90839	0.005	0.111	0.102	489.9774	0.155
Rollers	2020	6	15	1.102095	0.926	4.72504	4.53426	0.005	0.329	0.303	525.8798	0.17
Rollers	2020	16	25	1.102095	0.926	4.72504	4.53426	0.005	0.329	0.303	525.8798	0.17
Rollers	2020	26	50	1.102095	0.926	4.72504	4.53426	0.005	0.329	0.303	525.8798	0.17
Rollers	2020	51	120	0.462004	0.388	3.53135	3.88153	0.005	0.247	0.228	473.8594	0.153
Rollers	2020	121	175	0.256128	0.215	2.93333	2.45176	0.005	0.113	0.104	471.9177	0.153
Rollers	2020	176	250	0.248138	0.209	1.25343	2.75095	0.005	0.089	0.082	473.3669	0.153
Rollers	2020	251	500	0.279691	0.235	2.11346	2.82823	0.005	0.109	0.101	479.3254	0.155
Rollers	2021	6	15	1.008559	0.847	4.59681	4.35097	0.005	0.294	0.27	525.7908	0.17
Rollers	2021	16	25	1.008559	0.847	4.59681	4.35097	0.005	0.294	0.27	525.7908	0.17
Rollers	2021	26	50	1.008559	0.847	4.59681	4.35097	0.005	0.294	0.27	525.7908	0.17
Rollers	2021	51	120	0.42061	0.353	3.50719	3.5889	0.005	0.219	0.202	473.9012	0.153
Rollers	2021	121	175	0.229571	0.193	2.9256	2.11691	0.005	0.097	0.09	471.9799	0.153
Rollers	2021	176	250	0.23384	0.196	1.22849	2.49332	0.005	0.081	0.075	473.4704	0.153
Rollers	2021	251	500	0.26246	0.221	1.94995	2.58936	0.005	0.1	0.092	479.3294	0.155
Rollers	2022	6	15	0.878567	0.738	4.40241	4.12773	0.005	0.25	0.23	525.691	0.17
Rollers	2022	16	25	0.878567	0.738	4.40241	4.12773	0.005	0.25	0.23	525.691	0.17
Rollers	2022	26	50	0.878567	0.738	4.40241	4.12773	0.005	0.25	0.23	525.691	0.17
Rollers	2022	51	120	0.369089	0.31	3.46973	3.21896	0.005	0.186	0.171	473.9291	0.153
Rollers	2022	121	175	0.195547	0.164	2.91331	1.71408	0.005	0.079	0.072	471.9475	0.153

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Rollers	2022	176	250	0.221959	0.187	1.22821	2.2116	0.005	0.077	0.071	473.5135	0.153
Rollers	2022	251	500	0.259221	0.218	1.95495	2.46341	0.005	0.097	0.089	478.9817	0.155
Rollers	2023	6	15	0.786211	0.661	4.25236	3.9211	0.005	0.212	0.195	525.8616	0.17
Rollers	2023	16	25	0.786211	0.661	4.25236	3.9211	0.005	0.212	0.195	525.8616	0.17
Rollers	2023	26	50	0.786211	0.661	4.25236	3.9211	0.005	0.212	0.195	525.8616	0.17
Rollers	2023	51	120	0.341189	0.287	3.45461	3.00302	0.005	0.165	0.152	473.9363	0.153
Rollers	2023	121	175	0.1784	0.15	2.90949	1.4833	0.005	0.068	0.062	471.9351	0.153
Rollers	2023	176	250	0.223864	0.188	1.23448	2.17272	0.005	0.076	0.07	473.5164	0.153
Rollers	2023	251	500	0.25159	0.211	1.95626	2.29003	0.005	0.093	0.085	478.3028	0.155
Rollers	2024	6	15	0.738433	0.62	4.20667	3.82449	0.005	0.192	0.177	525.9565	0.17
Rollers	2024	16	25	0.738433	0.62	4.20667	3.82449	0.005	0.192	0.177	525.9565	0.17
Rollers	2024	26	50	0.738433	0.62	4.20667	3.82449	0.005	0.192	0.177	525.9565	0.17
Rollers	2024	51	120	0.323417	0.272	3.45055	2.843	0.005	0.15	0.138	474.0072	0.153
Rollers	2024	121	175	0.168235	0.141	2.91426	1.32428	0.005	0.061	0.056	472.012	0.153
Rollers	2024	176	250	0.213553	0.179	1.21417	1.97675	0.005	0.07	0.064	473.512	0.153
Rollers	2024	251	500	0.24978	0.21	1.96121	2.21612	0.005	0.09	0.083	477.9001	0.155
Rollers	2025	6	15	0.677074	0.569	4.12543	3.68893	0.005	0.167	0.154	526.1406	0.17
Rollers	2025	16	25	0.677074	0.569	4.12543	3.68893	0.005	0.167	0.154	526.1406	0.17
Rollers	2025	26	50	0.677074	0.569	4.12543	3.68893	0.005	0.167	0.154	526.1406	0.17
Rollers	2025	51	120	0.303987	0.255	3.44432	2.69137	0.005	0.135	0.125	473.851	0.153
Rollers	2025	121	175	0.150791	0.127	2.90859	1.10088	0.005	0.049	0.045	471.9696	0.153
Rollers	2025	176	250	0.205768	0.173	1.21477	1.78252	0.005	0.066	0.06	473.6813	0.153
Rollers	2025	251	500	0.251787	0.212	1.96754	2.19998	0.005	0.09	0.083	477.5732	0.154
Rollers	2030	6	15	1.543	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Rollers	2030	16	25	3.377	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Rollers	2030	26	50	5.638	0.587	4.784	3.48	0.007	0.073	0.073	568.299	0.053
Rollers	2030	51	120	6.528	0.299	3.639	1.95	0.006	0.066	0.066	568.299	0.027
Rollers	2030	121	175	8.923	0.223	3.203	0.907	0.006	0.042	0.042	568.299	0.02
Rollers	2030	176	250	11.047	0.195	1.099	0.745	0.006	0.024	0.024	568.299	0.017
Rollers	2030	251	500	15.637	0.193	1.056	0.697	0.005	0.023	0.023	568.299	0.017
Rollers	2035	6	15	1.543	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Rollers	2035	16	25	3.377	0.685	2.34	4.332	0.007	0.161	0.161	568.3	0.061
Rollers	2035	26	50	4.867	0.507	4.711	3.28	0.007	0.038	0.038	568.299	0.045
Rollers	2035	51	120	5.632	0.258	3.629	1.65	0.006	0.035	0.035	568.299	0.023
Rollers	2035	121	175	7.351	0.184	3.204	0.523	0.006	0.023	0.023	568.299	0.016
Rollers	2035	176	250	9.79	0.173	1.091	0.465	0.006	0.016	0.016	568.299	0.015
Rollers	2035	251	500	13.949	0.172	1.048	0.442	0.005	0.016	0.016	568.3	0.015
Rollers	2040	6	15	1.543	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Rollers	2040	16	25	3.377	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Rollers	2040	26	50	4.508	0.469	4.682	3.207	0.007	0.024	0.024	568.299	0.042
Rollers	2040	51	120	5.228	0.24	3.625	1.525	0.006	0.021	0.021	568.299	0.021
Rollers	2040	121	175	6.731	0.168	3.205	0.373	0.006	0.015	0.015	568.299	0.015
Rollers	2040	176	250	9.355	0.165	1.092	0.348	0.006	0.012	0.012	568.299	0.014
Rollers	2040	251	500	13.378	0.165	1.048	0.341	0.005	0.012	0.012	568.299	0.014
Rough Terrain Forklifts	1990	26	50	13.299	5.191	10.416	8.098	0.871	1.348	1.348	568.299	0.468
Rough Terrain Forklifts	1990	51	120	11.91	2.52	6.008	15.753	0.791	1.432	1.432	568.299	0.227
Rough Terrain Forklifts	1990	121	175	19.775	2.092	5.422	15.888	0.758	1.178	1.178	568.299	0.188
Rough Terrain Forklifts	1990	176	250	27.042	2.092	5.422	15.888	0.758	1.178	1.178	568.299	0.188
Rough Terrain Forklifts	1990	251	500	35.607	1.834	12.637	14.986	0.662	0.998	0.998	568.299	0.165
Rough Terrain Forklifts	2000	26	50	11.216	4.378	9.045	7.041	0.066	0.919	0.919	568.3	0.395
Rough Terrain Forklifts	2000	51	120	8.517	1.802	4.574	10.225	0.06	0.881	0.881	568.299	0.162
Rough Terrain Forklifts	2000	121	175	11.484	1.215	3.676	9.36	0.057	0.511	0.511	568.3	0.109
Rough Terrain Forklifts	2000	176	250	13.186	1.02	2.927	9.021	0.057	0.418	0.418	568.299	0.092
Rough Terrain Forklifts	2000	251	500	18.049	0.929	4.415	8.59	0.05	0.37	0.37	568.299	0.083
Rough Terrain Forklifts	2005	26	50	9.835	3.839	8.285	6.528	0.066	0.844	0.844	568.299	0.346
Rough Terrain Forklifts	2005	51	120	7.351	1.555	4.289	8.677	0.06	0.82	0.82	568.299	0.14
Rough Terrain Forklifts	2005	121	175	9.61	1.016	3.403	7.941	0.057	0.447	0.447	568.3	0.091
Rough Terrain Forklifts	2005	176	250	9.418	0.728	1.995	7.52	0.057	0.289	0.289	568.299	0.065
Rough Terrain Forklifts	2005	251	500	12.496	0.643	2.406	6.82	0.05	0.258	0.258	568.299	0.058
Rough Terrain Forklifts	2010	26	50	1.514602	1.273	4.9076	5.57504	0.005	0.495	0.455	583.8316	0.17
Rough Terrain Forklifts	2010	51	120	0.607871	0.511	3.47103	5.81073	0.005	0.386	0.355	525.5318	0.153
Rough Terrain Forklifts	2010	121	175	0.37661	0.316	2.9137	4.78775	0.005	0.212	0.195	524.1127	0.153
Rough Terrain Forklifts	2010	176	250	0.759196	0.638	2.86785	7.87723	0.005	0.351	0.323	527.6921	0.154
Rough Terrain Forklifts	2010	251	500	0.386691	0.325	1.82955	5.79984	0.005	0.168	0.155	518.8116	0.151
Rough Terrain Forklifts	2011	26	50	1.444446	1.214	4.83823	5.52279	0.005	0.48	0.442	582.3751	0.17
Rough Terrain Forklifts	2011	51	120	0.549079	0.461	3.4365	5.4371	0.005	0.352	0.324	524.0504	0.153
Rough Terrain Forklifts	2011	121	175	0.339518	0.285	2.87624	4.45534	0.005	0.193	0.177	522.735	0.153
Rough Terrain Forklifts	2011	176	250	0.686556	0.577	2.63351	7.1588	0.005	0.317	0.292	525.8441	0.153
Rough Terrain Forklifts	2011	251	500	0.390538	0.328	1.84589	5.81691	0.005	0.17	0.156	517.5182	0.151
Rough Terrain Forklifts	2012	26	50	1.441034	1.211	4.88018	5.49331	0.005	0.476	0.438	580.9231	0.17
Rough Terrain Forklifts	2012	51	120	0.530399	0.446	3.43501	5.29115	0.005	0.34	0.312	522.6299	0.153

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Rough Terrain Forklifts	2012	121	175	0.336361	0.283	2.88643	4.38447	0.005	0.189	0.174	521.4414	0.153
Rough Terrain Forklifts	2012	176	250	0.693119	0.582	2.65596	7.11155	0.005	0.319	0.293	524.4406	0.153
Rough Terrain Forklifts	2012	251	500	0.394706	0.332	1.86253	5.83389	0.005	0.171	0.157	516.2249	0.151
Rough Terrain Forklifts	2013	26	50	1.427232	1.199	4.88715	5.34043	0.005	0.454	0.417	578.2559	0.17
Rough Terrain Forklifts	2013	51	120	0.469882	0.395	3.39906	4.92337	0.005	0.299	0.275	519.906	0.153
Rough Terrain Forklifts	2013	121	175	0.283862	0.239	2.86094	3.90677	0.005	0.153	0.141	518.7027	0.153
Rough Terrain Forklifts	2013	176	250	0.418518	0.352	1.88921	4.79966	0.005	0.184	0.169	521.6392	0.153
Rough Terrain Forklifts	2013	251	500	0.334838	0.281	1.86541	4.62017	0.005	0.141	0.129	514.2815	0.151
Rough Terrain Forklifts	2014	26	50	1.40671	1.182	4.88713	5.22634	0.005	0.436	0.401	575.3526	0.17
Rough Terrain Forklifts	2014	51	120	0.417386	0.351	3.36705	4.46728	0.005	0.261	0.24	517.2602	0.153
Rough Terrain Forklifts	2014	121	175	0.263476	0.221	2.85182	3.59442	0.005	0.139	0.128	516.0907	0.153
Rough Terrain Forklifts	2014	176	250	0.221616	0.186	1.21218	2.98369	0.005	0.087	0.08	517.7663	0.153
Rough Terrain Forklifts	2014	251	500	0.202465	0.17	0.95399	3.49973	0.005	0.076	0.07	511.6567	0.151
Rough Terrain Forklifts	2015	26	50	1.414803	1.189	4.93325	5.18984	0.005	0.431	0.397	569.4875	0.17
Rough Terrain Forklifts	2015	51	120	0.401892	0.338	3.36619	4.28003	0.005	0.247	0.228	512.0859	0.153
Rough Terrain Forklifts	2015	121	175	0.25808	0.217	2.85917	3.42042	0.005	0.133	0.122	510.8541	0.153
Rough Terrain Forklifts	2015	176	250	0.166466	0.14	1.01164	2.4626	0.005	0.058	0.054	512.1638	0.153
Rough Terrain Forklifts	2015	251	500	0.207111	0.174	0.95822	3.52067	0.005	0.077	0.071	506.4349	0.151
Rough Terrain Forklifts	2016	26	50	1.378654	1.158	4.91773	5.09924	0.005	0.415	0.382	563.3598	0.17
Rough Terrain Forklifts	2016	51	120	0.358928	0.302	3.34169	3.84005	0.005	0.213	0.196	507.0659	0.153
Rough Terrain Forklifts	2016	121	175	0.248476	0.209	2.865	3.2087	0.005	0.124	0.114	505.596	0.153
Rough Terrain Forklifts	2016	176	250	0.171278	0.144	1.0177	2.46843	0.005	0.059	0.054	506.8956	0.153
Rough Terrain Forklifts	2016	251	500	0.211667	0.178	0.96236	3.54169	0.005	0.078	0.072	501.2134	0.151
Rough Terrain Forklifts	2017	26	50	1.318488	1.108	4.83344	4.90253	0.005	0.382	0.352	554.6234	0.17
Rough Terrain Forklifts	2017	51	120	0.322506	0.271	3.31778	3.41759	0.005	0.182	0.167	499.1682	0.153
Rough Terrain Forklifts	2017	121	175	0.231401	0.194	2.86636	2.90167	0.005	0.112	0.103	497.7766	0.153
Rough Terrain Forklifts	2017	176	250	0.175965	0.148	1.02362	2.47389	0.005	0.059	0.054	499.0007	0.153
Rough Terrain Forklifts	2017	251	500	0.216551	0.182	0.96636	3.56771	0.005	0.079	0.073	493.3362	0.151
Rough Terrain Forklifts	2018	26	50	1.273116	1.07	4.76839	4.73469	0.005	0.359	0.33	545.8693	0.17
Rough Terrain Forklifts	2018	51	120	0.264415	0.222	3.26976	2.84496	0.005	0.136	0.125	491.2107	0.153
Rough Terrain Forklifts	2018	121	175	0.194786	0.164	2.84245	2.34168	0.005	0.088	0.081	489.9869	0.153
Rough Terrain Forklifts	2018	176	250	0.181003	0.152	1.02948	2.48748	0.005	0.06	0.055	491.0997	0.153
Rough Terrain Forklifts	2018	251	500	0.172771	0.145	0.95802	2.70063	0.005	0.06	0.055	485.9543	0.151
Rough Terrain Forklifts	2019	26	50	1.200779	1.009	4.67405	4.55745	0.005	0.328	0.301	537.3287	0.17
Rough Terrain Forklifts	2019	51	120	0.240277	0.202	3.25848	2.6222	0.005	0.117	0.107	483.3105	0.153
Rough Terrain Forklifts	2019	121	175	0.177689	0.149	2.84092	2.05752	0.005	0.075	0.069	482.1188	0.153
Rough Terrain Forklifts	2019	176	250	0.130153	0.109	0.97423	1.63905	0.005	0.036	0.033	483.0882	0.153
Rough Terrain Forklifts	2019	251	500	0.138302	0.116	0.95034	1.96109	0.005	0.043	0.039	477.2539	0.151
Rough Terrain Forklifts	2020	26	50	1.188595	0.999	4.68594	4.4946	0.005	0.316	0.291	525.6222	0.17
Rough Terrain Forklifts	2020	51	120	0.225188	0.189	3.25575	2.45218	0.005	0.103	0.094	472.9842	0.153
Rough Terrain Forklifts	2020	121	175	0.170092	0.143	2.84466	1.86888	0.005	0.068	0.063	471.7152	0.153
Rough Terrain Forklifts	2020	176	250	0.132727	0.112	0.97848	1.60906	0.005	0.037	0.034	472.5671	0.153
Rough Terrain Forklifts	2020	251	500	0.105484	0.089	0.94184	1.30199	0.005	0.028	0.026	465.7709	0.151
Rough Terrain Forklifts	2021	26	50	1.152538	0.968	4.65658	4.41145	0.005	0.304	0.279	525.3844	0.17
Rough Terrain Forklifts	2021	51	120	0.207836	0.175	3.25191	2.28534	0.005	0.089	0.081	473.11	0.153
Rough Terrain Forklifts	2021	121	175	0.154972	0.13	2.8447	1.61661	0.005	0.06	0.055	471.7575	0.153
Rough Terrain Forklifts	2021	176	250	0.136824	0.115	0.98379	1.61186	0.005	0.037	0.034	472.5469	0.153
Rough Terrain Forklifts	2021	251	500	0.109168	0.092	0.94604	1.30199	0.005	0.028	0.026	465.7442	0.151
Rough Terrain Forklifts	2022	26	50	0.93878	0.789	4.3038	4.04131	0.005	0.238	0.219	525.0151	0.17
Rough Terrain Forklifts	2022	51	120	0.18871	0.159	3.24374	2.0983	0.005	0.073	0.067	473.089	0.153
Rough Terrain Forklifts	2022	121	175	0.142314	0.12	2.84439	1.40475	0.005	0.051	0.047	471.6773	0.153
Rough Terrain Forklifts	2022	176	250	0.140994	0.118	0.98924	1.61688	0.005	0.037	0.034	472.5408	0.153
Rough Terrain Forklifts	2022	251	500	0.081218	0.068	0.93709	0.55798	0.005	0.009	0.008	466.5598	0.151
Rough Terrain Forklifts	2023	26	50	0.82158	0.69	4.12519	3.85338	0.005	0.204	0.187	524.8024	0.17
Rough Terrain Forklifts	2023	51	120	0.178416	0.15	3.24217	1.9836	0.005	0.064	0.059	473.1584	0.153
Rough Terrain Forklifts	2023	121	175	0.132417	0.111	2.84289	1.21796	0.005	0.043	0.04	471.6217	0.153
Rough Terrain Forklifts	2023	176	250	0.137509	0.116	0.98987	1.47399	0.005	0.034	0.032	472.7784	0.153
Rough Terrain Forklifts	2023	251	500	0.082146	0.069	0.93788	0.55845	0.005	0.009	0.008	466.554	0.151
Rough Terrain Forklifts	2024	26	50	0.678189	0.57	3.91822	3.65343	0.005	0.166	0.152	524.9235	0.17
Rough Terrain Forklifts	2024	51	120	0.172725	0.145	3.24468	1.91392	0.005	0.058	0.054	473.0631	0.153
Rough Terrain Forklifts	2024	121	175	0.122467	0.103	2.83416	1.04413	0.005	0.039	0.035	471.5346	0.153
Rough Terrain Forklifts	2024	176	250	0.141528	0.119	0.99524	1.48012	0.005	0.035	0.032	472.8527	0.153
Rough Terrain Forklifts	2024	251	500	0.078846	0.066	0.93746	0.47582	0.005	0.009	0.008	466.5479	0.151
Rough Terrain Forklifts	2025	26	50	0.542352	0.456	3.74002	3.47668	0.005	0.128	0.118	525.027	0.17
Rough Terrain Forklifts	2025	51	120	0.16354	0.137	3.23971	1.82053	0.005	0.051	0.047	473.0366	0.153
Rough Terrain Forklifts	2025	121	175	0.103861	0.087	2.82091	0.78628	0.005	0.03	0.028	471.4745	0.152
Rough Terrain Forklifts	2025	176	250	0.145736	0.122	1.00073	1.48888	0.005	0.035	0.033	472.9267	0.153
Rough Terrain Forklifts	2025	251	500	0.081817	0.069	0.94151	0.47663	0.005	0.009	0.008	466.5414	0.151
Rough Terrain Forklifts	2030	26	50	1.404	0.548	5.031	3.359	0.007	0.039	0.039	568.299	0.049
Rough Terrain Forklifts	2030	51	120	1.321	0.279	3.725	1.671	0.006	0.034	0.034	568.299	0.025
Rough Terrain Forklifts	2030	121	175	1.898	0.2	3.291	0.537	0.006	0.023	0.023	568.299	0.018

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Skid Steer Loaders	2023	51	120	0.182613	0.153	3.26613	2.03854	0.005	0.069	0.063	472.656	0.153
Skid Steer Loaders	2024	16	25	0.415881	0.349	3.67076	3.34552	0.005	0.089	0.082	527.8005	0.171
Skid Steer Loaders	2024	26	50	0.415881	0.349	3.67076	3.34552	0.005	0.089	0.082	527.8005	0.171
Skid Steer Loaders	2024	51	120	0.174841	0.147	3.26403	1.94841	0.005	0.063	0.058	472.847	0.153
Skid Steer Loaders	2025	16	25	0.406183	0.341	3.6601	3.30934	0.005	0.084	0.077	527.8608	0.171
Skid Steer Loaders	2025	26	50	0.406183	0.341	3.6601	3.30934	0.005	0.084	0.077	527.8608	0.171
Skid Steer Loaders	2025	51	120	0.166357	0.14	3.25156	1.86736	0.005	0.057	0.052	472.6295	0.153
Skid Steer Loaders	2030	16	25	1.526	0.685	2.34	4.332	0.007	0.162	0.162	568.299	0.061
Skid Steer Loaders	2030	26	50	1.694	0.411	4.386	3.128	0.007	0.018	0.018	568.299	0.037
Skid Steer Loaders	2030	51	120	1.478	0.214	3.538	1.477	0.006	0.017	0.017	568.299	0.019
Skid Steer Loaders	2035	16	25	1.526	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Skid Steer Loaders	2035	26	50	1.694	0.411	4.39	3.097	0.007	0.015	0.015	568.299	0.037
Skid Steer Loaders	2035	51	120	1.459	0.211	3.54	1.442	0.006	0.014	0.014	568.299	0.019
Skid Steer Loaders	2040	16	25	1.526	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Skid Steer Loaders	2040	26	50	1.696	0.411	4.392	3.093	0.007	0.014	0.014	568.299	0.037
Skid Steer Loaders	2040	51	120	1.456	0.211	3.54	1.435	0.006	0.013	0.013	568.3	0.019
Surfacing Equipment	1990	26	50	8.011	4.203	8.629	7.726	0.871	1.147	1.147	568.299	0.379
Surfacing Equipment	1990	51	120	18.985	2.203	5.473	14.403	0.791	1.214	1.214	568.299	0.198
Surfacing Equipment	1990	121	175	19.781	1.707	4.883	13.91	0.758	0.927	0.927	568.3	0.154
Surfacing Equipment	1990	176	250	31.103	1.707	4.883	13.91	0.758	0.927	0.927	568.299	0.154
Surfacing Equipment	1990	251	500	45.625	1.526	9.66	13.316	0.662	0.805	0.805	568.299	0.137
Surfacing Equipment	1990	501	750	71.58	1.526	9.66	13.316	1.018	0.82	0.82	568.299	0.137
Surfacing Equipment	2000	26	50	6.689	3.509	7.426	6.755	0.066	0.779	0.779	568.299	0.316
Surfacing Equipment	2000	51	120	14.399	1.671	4.385	9.991	0.06	0.768	0.768	568.299	0.15
Surfacing Equipment	2000	121	175	13.132	1.133	3.583	9.132	0.057	0.458	0.458	568.299	0.102
Surfacing Equipment	2000	176	250	17.689	0.97	2.937	8.84	0.057	0.385	0.385	568.299	0.087
Surfacing Equipment	2000	251	500	26.875	0.899	4.584	8.551	0.05	0.347	0.347	568.299	0.081
Surfacing Equipment	2000	501	750	42.164	0.899	4.584	8.551	0.052	0.347	0.347	568.299	0.081
Surfacing Equipment	2005	26	50	6.001	3.148	6.936	6.318	0.066	0.727	0.727	568.3	0.284
Surfacing Equipment	2005	51	120	12.568	1.458	4.122	8.636	0.06	0.718	0.718	568.299	0.131
Surfacing Equipment	2005	121	175	11.032	0.952	3.316	7.874	0.057	0.402	0.402	568.3	0.085
Surfacing Equipment	2005	176	250	13.31	0.73	2.16	7.529	0.057	0.29	0.29	568.299	0.065
Surfacing Equipment	2005	251	500	19.448	0.65	3.023	6.988	0.05	0.26	0.26	568.299	0.058
Surfacing Equipment	2005	501	750	31.164	0.664	3.019	7.132	0.052	0.262	0.262	568.299	0.059
Surfacing Equipment	2010	26	50	1.528976	1.285	4.99949	5.66618	0.005	0.479	0.44	593.0498	0.173
Surfacing Equipment	2010	51	120	0.730908	0.614	3.59404	6.16537	0.005	0.437	0.402	524.0289	0.153
Surfacing Equipment	2010	121	175	0.662829	0.557	3.09066	6.60554	0.005	0.318	0.292	522.4909	0.152
Surfacing Equipment	2010	176	250	0.488779	0.411	1.7501	6.37687	0.005	0.212	0.195	530.3611	0.154
Surfacing Equipment	2010	251	500	0.29849	0.251	1.5491	4.43284	0.005	0.144	0.133	522.9659	0.152
Surfacing Equipment	2010	501	750	0.208991	0.176	1.09654	3.5514	0.005	0.112	0.103	524.8847	0.153
Surfacing Equipment	2011	26	50	1.476255	1.24	4.95391	5.62022	0.005	0.467	0.43	590.2612	0.172
Surfacing Equipment	2011	51	120	0.710662	0.597	3.58797	5.98734	0.005	0.427	0.393	522.8446	0.153
Surfacing Equipment	2011	121	175	0.6472	0.544	3.07389	6.46356	0.005	0.312	0.287	521.1883	0.152
Surfacing Equipment	2011	176	250	0.481299	0.404	1.72048	6.2863	0.005	0.207	0.191	529.0217	0.154
Surfacing Equipment	2011	251	500	0.289572	0.243	1.48634	4.26701	0.005	0.136	0.125	520.4212	0.152
Surfacing Equipment	2011	501	750	0.214952	0.181	1.10325	3.56055	0.005	0.113	0.104	523.5482	0.153
Surfacing Equipment	2012	26	50	1.500607	1.261	5.03037	5.63914	0.005	0.473	0.435	588.7118	0.172
Surfacing Equipment	2012	51	120	0.709653	0.596	3.59999	5.94999	0.005	0.426	0.392	521.4233	0.153
Surfacing Equipment	2012	121	175	0.653605	0.549	3.0893	6.48747	0.005	0.315	0.29	519.886	0.152
Surfacing Equipment	2012	176	250	0.481696	0.405	1.72816	6.22653	0.005	0.207	0.191	527.6815	0.154
Surfacing Equipment	2012	251	500	0.290035	0.244	1.49574	4.20283	0.005	0.134	0.124	519.0487	0.152
Surfacing Equipment	2012	501	750	0.210249	0.177	1.04051	3.45723	0.005	0.109	0.1	521.0672	0.152
Surfacing Equipment	2013	26	50	1.455428	1.223	4.99596	5.53803	0.005	0.457	0.421	585.7193	0.172
Surfacing Equipment	2013	51	120	0.69949	0.588	3.60266	5.8163	0.005	0.415	0.382	518.7481	0.153
Surfacing Equipment	2013	121	175	0.588968	0.495	3.00889	5.94134	0.005	0.286	0.263	518.4738	0.152
Surfacing Equipment	2013	176	250	0.441295	0.371	1.62196	5.8812	0.005	0.187	0.172	524.5301	0.154
Surfacing Equipment	2013	251	500	0.288988	0.243	1.50462	4.09243	0.005	0.131	0.121	516.1488	0.152
Surfacing Equipment	2013	501	750	0.215353	0.181	1.04387	3.46124	0.005	0.11	0.101	518.3853	0.152
Surfacing Equipment	2014	26	50	1.358041	1.141	4.87668	5.42525	0.005	0.434	0.399	582.7249	0.172
Surfacing Equipment	2014	51	120	0.665267	0.559	3.58043	5.52029	0.005	0.391	0.36	516.3377	0.153
Surfacing Equipment	2014	121	175	0.561853	0.472	3.01212	5.71146	0.005	0.273	0.251	515.8203	0.152
Surfacing Equipment	2014	176	250	0.364211	0.306	1.43363	5.10182	0.005	0.149	0.137	521.4518	0.154
Surfacing Equipment	2014	251	500	0.2821	0.237	1.50147	3.8952	0.005	0.125	0.115	513.6157	0.152
Surfacing Equipment	2014	501	750	0.206755	0.174	1.02007	3.28435	0.005	0.103	0.095	516.3212	0.153
Surfacing Equipment	2015	26	50	1.223408	1.028	4.69178	5.25471	0.005	0.402	0.37	576.7706	0.172
Surfacing Equipment	2015	51	120	0.651534	0.547	3.57496	5.37414	0.005	0.378	0.348	510.1417	0.152
Surfacing Equipment	2015	121	175	0.568	0.477	3.02727	5.73307	0.005	0.276	0.254	510.5481	0.152
Surfacing Equipment	2015	176	250	0.36864	0.31	1.44156	5.11205	0.005	0.151	0.139	516.058	0.154
Surfacing Equipment	2015	251	500	0.286581	0.241	1.51303	3.90037	0.005	0.126	0.116	508.3985	0.152
Surfacing Equipment	2015	501	750	0.211433	0.178	1.02353	3.28678	0.005	0.104	0.096	511.1157	0.153
Surfacing Equipment	2016	26	50	1.243319	1.045	4.7626	5.27275	0.005	0.406	0.374	570.8145	0.172

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Surfacing Equipment	2016	51	120	0.621267	0.522	3.54977	5.05142	0.005	0.349	0.321	505.0873	0.152
Surfacing Equipment	2016	121	175	0.544572	0.458	3.00649	5.45794	0.005	0.265	0.244	504.5576	0.152
Surfacing Equipment	2016	176	250	0.365495	0.307	1.42946	5.04791	0.005	0.148	0.136	510.7058	0.154
Surfacing Equipment	2016	251	500	0.258417	0.217	1.42484	3.46816	0.005	0.111	0.102	502.4709	0.152
Surfacing Equipment	2016	501	750	0.192579	0.162	0.99966	2.87955	0.005	0.093	0.085	506.967	0.153
Surfacing Equipment	2017	26	50	1.10469	0.928	4.60324	5.0643	0.006	0.365	0.336	564.4772	0.173
Surfacing Equipment	2017	51	120	0.604716	0.508	3.55587	4.94212	0.005	0.337	0.31	498.36	0.153
Surfacing Equipment	2017	121	175	0.541755	0.455	3.00273	5.39296	0.005	0.264	0.243	496.2741	0.152
Surfacing Equipment	2017	176	250	0.325463	0.273	1.3431	4.46793	0.005	0.129	0.119	501.8465	0.154
Surfacing Equipment	2017	251	500	0.242435	0.204	1.3962	3.10636	0.005	0.103	0.094	496.885	0.152
Surfacing Equipment	2017	501	750	0.190932	0.16	1.00272	2.76955	0.005	0.09	0.083	499.7117	0.153
Surfacing Equipment	2018	26	50	0.927049	0.779	4.35302	4.81982	0.006	0.32	0.294	555.7363	0.173
Surfacing Equipment	2018	51	120	0.49279	0.414	3.48871	4.28388	0.005	0.268	0.247	491.3172	0.153
Surfacing Equipment	2018	121	175	0.44632	0.375	2.97609	4.47527	0.005	0.215	0.198	488.4406	0.152
Surfacing Equipment	2018	176	250	0.286758	0.241	1.234	3.98866	0.005	0.113	0.104	494.1388	0.154
Surfacing Equipment	2018	251	500	0.187325	0.157	1.22557	2.20389	0.005	0.076	0.07	487.8722	0.152
Surfacing Equipment	2018	501	750	0.169556	0.142	0.99347	2.26863	0.005	0.078	0.072	488.86	0.152
Surfacing Equipment	2019	26	50	0.765383	0.643	4.0998	4.41999	0.006	0.25	0.23	547.0462	0.173
Surfacing Equipment	2019	51	120	0.42278	0.355	3.44856	3.82306	0.005	0.226	0.208	484.0757	0.153
Surfacing Equipment	2019	121	175	0.425034	0.357	2.97177	4.23866	0.005	0.204	0.187	479.6717	0.152
Surfacing Equipment	2019	176	250	0.257694	0.217	1.21576	3.39993	0.005	0.101	0.093	486.8417	0.154
Surfacing Equipment	2019	251	500	0.173135	0.145	1.2143	1.89944	0.005	0.068	0.063	481.8965	0.152
Surfacing Equipment	2019	501	750	0.168821	0.142	0.99372	2.17879	0.005	0.076	0.07	480.166	0.152
Surfacing Equipment	2020	26	50	0.637406	0.536	3.93357	4.23906	0.006	0.216	0.199	535.5275	0.173
Surfacing Equipment	2020	51	120	0.392345	0.33	3.43932	3.61216	0.005	0.206	0.19	473.8188	0.153
Surfacing Equipment	2020	121	175	0.365927	0.307	2.93068	3.67232	0.005	0.175	0.161	469.2079	0.152
Surfacing Equipment	2020	176	250	0.252128	0.212	1.21774	3.22243	0.005	0.097	0.089	476.4261	0.154
Surfacing Equipment	2020	251	500	0.173203	0.146	1.21902	1.83755	0.005	0.067	0.062	471.6331	0.153
Surfacing Equipment	2020	501	750	0.168871	0.142	0.99569	2.09374	0.005	0.074	0.068	469.6252	0.152
Surfacing Equipment	2021	26	50	0.60314	0.507	3.93231	4.18875	0.006	0.204	0.188	535.784	0.173
Surfacing Equipment	2021	51	120	0.370907	0.312	3.43619	3.46112	0.005	0.191	0.175	474.0906	0.153
Surfacing Equipment	2021	121	175	0.307112	0.258	2.91895	3.09858	0.005	0.145	0.134	469.1687	0.152
Surfacing Equipment	2021	176	250	0.245986	0.207	1.21854	2.99364	0.005	0.092	0.085	476.8023	0.154
Surfacing Equipment	2021	251	500	0.167588	0.141	1.20226	1.75282	0.005	0.064	0.058	471.7484	0.153
Surfacing Equipment	2021	501	750	0.148862	0.125	0.99181	1.59712	0.005	0.062	0.057	470.4087	0.152
Surfacing Equipment	2022	26	50	0.509163	0.428	3.77243	3.9114	0.006	0.154	0.142	535.8364	0.173
Surfacing Equipment	2022	51	120	0.34882	0.293	3.40936	3.24974	0.005	0.175	0.161	473.6362	0.153
Surfacing Equipment	2022	121	175	0.283918	0.239	2.90957	2.70137	0.005	0.13	0.12	469.1259	0.152
Surfacing Equipment	2022	176	250	0.233135	0.196	1.21737	2.66709	0.005	0.085	0.078	476.9511	0.154
Surfacing Equipment	2022	251	500	0.157417	0.132	1.16047	1.5573	0.005	0.057	0.053	470.5248	0.152
Surfacing Equipment	2022	501	750	0.136805	0.115	0.98819	1.35503	0.005	0.052	0.048	470.4004	0.152
Surfacing Equipment	2023	26	50	0.51987	0.437	3.83184	3.92432	0.006	0.155	0.143	535.9295	0.173
Surfacing Equipment	2023	51	120	0.321277	0.27	3.39556	3.05811	0.005	0.157	0.144	474.4698	0.153
Surfacing Equipment	2023	121	175	0.267066	0.224	2.91383	2.45516	0.005	0.119	0.11	470.0141	0.152
Surfacing Equipment	2023	176	250	0.22795	0.192	1.21946	2.50162	0.005	0.082	0.075	476.9606	0.154
Surfacing Equipment	2023	251	500	0.156473	0.131	1.16329	1.47556	0.005	0.056	0.051	470.3746	0.152
Surfacing Equipment	2023	501	750	0.119512	0.1	0.98543	1.08063	0.005	0.04	0.037	472.4466	0.153
Surfacing Equipment	2024	26	50	0.396453	0.333	3.66193	3.72069	0.006	0.116	0.107	536.0304	0.173
Surfacing Equipment	2024	51	120	0.29879	0.251	3.3893	2.8828	0.005	0.142	0.131	475.3806	0.154
Surfacing Equipment	2024	121	175	0.271298	0.228	2.92962	2.46372	0.005	0.12	0.111	470.0767	0.152
Surfacing Equipment	2024	176	250	0.209166	0.176	1.18272	2.23638	0.005	0.071	0.065	477.096	0.154
Surfacing Equipment	2024	251	500	0.159183	0.134	1.16767	1.47769	0.005	0.056	0.051	470.2521	0.152
Surfacing Equipment	2024	501	750	0.112194	0.094	0.98493	0.94669	0.005	0.034	0.032	472.9833	0.153
Surfacing Equipment	2025	26	50	0.279239	0.235	3.53733	3.57642	0.006	0.082	0.075	536.14	0.173
Surfacing Equipment	2025	51	120	0.276433	0.232	3.38535	2.6591	0.005	0.124	0.114	476.7656	0.154
Surfacing Equipment	2025	121	175	0.222452	0.187	2.92602	1.9987	0.005	0.094	0.087	471.0403	0.152
Surfacing Equipment	2025	176	250	0.176026	0.148	1.14337	1.74736	0.005	0.055	0.051	477.11	0.154
Surfacing Equipment	2025	251	500	0.152175	0.128	1.16861	1.3268	0.005	0.051	0.047	470.2827	0.152
Surfacing Equipment	2025	501	750	0.101486	0.085	0.9776	0.76806	0.005	0.027	0.025	470.5508	0.152
Surfacing Equipment	2030	26	50	0.988	0.518	4.295	3.4	0.007	0.075	0.075	568.299	0.046
Surfacing Equipment	2030	51	120	2.281	0.264	3.492	1.959	0.006	0.068	0.068	568.299	0.023
Surfacing Equipment	2030	121	175	2.286	0.197	3.071	0.939	0.006	0.043	0.043	568.299	0.017
Surfacing Equipment	2030	176	250	3.134	0.172	1.064	0.789	0.006	0.026	0.026	568.299	0.015
Surfacing Equipment	2030	251	500	5.062	0.169	1.032	0.738	0.005	0.025	0.025	568.299	0.015
Surfacing Equipment	2030	501	750	7.953	0.169	1.032	0.749	0.005	0.025	0.025	568.299	0.015
Surfacing Equipment	2035	26	50	0.836	0.439	4.221	3.193	0.007	0.041	0.041	568.299	0.039
Surfacing Equipment	2035	51	120	1.954	0.226	3.482	1.659	0.006	0.038	0.038	568.299	0.02
Surfacing Equipment	2035	121	175	1.887	0.162	3.072	0.567	0.006	0.025	0.025	568.299	0.014
Surfacing Equipment	2035	176	250	2.725	0.149	1.05	0.497	0.006	0.016	0.016	568.299	0.013
Surfacing Equipment	2035	251	500	4.436	0.148	1.018	0.471	0.005	0.016	0.016	568.299	0.013
Surfacing Equipment	2035	501	750	6.967	0.148	1.018	0.477	0.005	0.016	0.016	568.3	0.013

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Surfacing Equipment	2040	26	50	0.753	0.395	4.183	3.114	0.007	0.025	0.025	568.299	0.035
Surfacing Equipment	2040	51	120	1.782	0.206	3.477	1.521	0.006	0.024	0.024	568.299	0.018
Surfacing Equipment	2040	121	175	1.691	0.146	3.073	0.397	0.006	0.017	0.017	568.299	0.013
Surfacing Equipment	2040	176	250	2.566	0.14	1.047	0.37	0.006	0.013	0.013	568.299	0.012
Surfacing Equipment	2040	251	500	4.197	0.14	1.015	0.358	0.005	0.012	0.012	568.299	0.012
Surfacing Equipment	2040	501	750	6.59	0.14	1.015	0.361	0.005	0.013	0.013	568.299	0.012
Sweepers/Scrubbers	1990	6	15	4.971	1.804	5	9.999	0.833	0.968	0.968	568.299	0.162
Sweepers/Scrubbers	1990	16	25	10.019	2.213	5	6.92	0.679	0.735	0.735	568.299	0.199
Sweepers/Scrubbers	1990	26	50	32.867	4.512	9.199	7.836	0.692	1.202	1.202	568.299	0.407
Sweepers/Scrubbers	1990	51	120	39.044	2.254	5.53	14.467	0.628	1.259	1.259	568.299	0.203
Sweepers/Scrubbers	1990	121	175	48.318	1.505	4.861	12.813	0.602	0.818	0.818	568.299	0.135
Sweepers/Scrubbers	1990	176	250	56.322	1.505	4.861	12.813	0.602	0.818	0.818	568.299	0.135
Sweepers/Scrubbers	2000	6	15	2.886	1.047	4.258	7.362	0.079	0.428	0.428	568.299	0.094
Sweepers/Scrubbers	2000	16	25	4.933	1.089	4.438	6.325	0.064	0.442	0.442	568.299	0.098
Sweepers/Scrubbers	2000	26	50	30.182	4.144	8.622	6.934	0.065	0.882	0.882	568.299	0.373
Sweepers/Scrubbers	2000	51	120	29.565	1.706	4.394	9.702	0.059	0.84	0.84	568.299	0.154
Sweepers/Scrubbers	2000	121	175	37.084	1.155	3.49	8.929	0.057	0.481	0.481	568.299	0.104
Sweepers/Scrubbers	2000	176	250	34.578	0.924	2.598	8.516	0.057	0.371	0.371	568.3	0.083
Sweepers/Scrubbers	2005	6	15	1.951	0.708	3.469	4.985	0.079	0.35	0.35	568.299	0.063
Sweepers/Scrubbers	2005	16	25	3.505	0.774	2.526	5.326	0.064	0.323	0.323	568.299	0.069
Sweepers/Scrubbers	2005	26	50	28.008	3.845	8.25	6.52	0.065	0.844	0.844	568.299	0.346
Sweepers/Scrubbers	2005	51	120	27.009	1.559	4.253	8.538	0.059	0.826	0.826	568.299	0.14
Sweepers/Scrubbers	2005	121	175	32.779	1.021	3.349	7.851	0.057	0.45	0.45	568.3	0.092
Sweepers/Scrubbers	2005	176	250	25.002	0.668	1.76	7.318	0.057	0.258	0.258	568.299	0.06
Sweepers/Scrubbers	2010	6	15	2.154395	1.81	6.34286	5.8263	0.005	0.615	0.566	583.6982	0.17
Sweepers/Scrubbers	2010	16	25	2.154395	1.81	6.34286	5.8263	0.005	0.615	0.566	583.6982	0.17
Sweepers/Scrubbers	2010	26	50	2.154395	1.81	6.34286	5.8263	0.005	0.615	0.566	583.6982	0.17
Sweepers/Scrubbers	2010	51	120	1.093749	0.919	4.10149	7.68967	0.005	0.657	0.604	526.7953	0.153
Sweepers/Scrubbers	2010	121	175	1.189152	0.999	4.21032	10.3895	0.005	0.578	0.532	525.6912	0.153
Sweepers/Scrubbers	2010	176	250	0.69332	0.583	2.35018	7.47446	0.005	0.319	0.294	522.3625	0.152
Sweepers/Scrubbers	2011	6	15	2.104606	1.768	6.34227	5.80317	0.005	0.606	0.557	582.239	0.17
Sweepers/Scrubbers	2011	16	25	2.104606	1.768	6.34227	5.80317	0.005	0.606	0.557	582.239	0.17
Sweepers/Scrubbers	2011	26	50	2.104606	1.768	6.34227	5.80317	0.005	0.606	0.557	582.239	0.17
Sweepers/Scrubbers	2011	51	120	1.070043	0.899	4.08877	7.49949	0.005	0.651	0.599	525.4783	0.153
Sweepers/Scrubbers	2011	121	175	1.134336	0.953	4.14616	9.92737	0.005	0.554	0.509	524.377	0.153
Sweepers/Scrubbers	2011	176	250	0.623199	0.524	2.16425	7.01091	0.005	0.284	0.261	521.0566	0.152
Sweepers/Scrubbers	2012	6	15	2.177617	1.83	6.54958	5.85015	0.005	0.621	0.571	580.7797	0.17
Sweepers/Scrubbers	2012	16	25	2.177617	1.83	6.54958	5.85015	0.005	0.621	0.571	580.7797	0.17
Sweepers/Scrubbers	2012	26	50	2.177617	1.83	6.54958	5.85015	0.005	0.621	0.571	580.7797	0.17
Sweepers/Scrubbers	2012	51	120	1.078889	0.907	4.12474	7.50259	0.005	0.659	0.606	524.1613	0.153
Sweepers/Scrubbers	2012	121	175	1.141423	0.959	4.16243	9.95689	0.005	0.558	0.513	523.0627	0.153
Sweepers/Scrubbers	2012	176	250	0.63315	0.532	2.17716	7.05573	0.005	0.286	0.264	519.7507	0.152
Sweepers/Scrubbers	2013	6	15	2.124198	1.785	6.54294	5.78778	0.005	0.608	0.559	577.8612	0.17
Sweepers/Scrubbers	2013	16	25	2.124198	1.785	6.54294	5.78778	0.005	0.608	0.559	577.8612	0.17
Sweepers/Scrubbers	2013	26	50	2.124198	1.785	6.54294	5.78778	0.005	0.608	0.559	577.8612	0.17
Sweepers/Scrubbers	2013	51	120	1.019559	0.857	4.07918	7.14773	0.005	0.626	0.576	521.5273	0.153
Sweepers/Scrubbers	2013	121	175	1.122038	0.943	4.12302	9.76352	0.005	0.547	0.503	520.4343	0.153
Sweepers/Scrubbers	2013	176	250	0.590836	0.496	2.05413	6.66337	0.005	0.263	0.242	517.1389	0.152
Sweepers/Scrubbers	2014	6	15	2.103399	1.767	6.59249	5.75157	0.005	0.603	0.555	574.9427	0.17
Sweepers/Scrubbers	2014	16	25	2.103399	1.767	6.59249	5.75157	0.005	0.603	0.555	574.9427	0.17
Sweepers/Scrubbers	2014	26	50	2.103399	1.767	6.59249	5.75157	0.005	0.603	0.555	574.9427	0.17
Sweepers/Scrubbers	2014	51	120	0.990916	0.833	4.07085	6.93387	0.005	0.61	0.562	518.8933	0.153
Sweepers/Scrubbers	2014	121	175	1.041854	0.875	4.04161	9.10792	0.005	0.503	0.463	517.8058	0.153
Sweepers/Scrubbers	2014	176	250	0.600544	0.505	2.06593	6.70399	0.005	0.265	0.244	514.5271	0.152
Sweepers/Scrubbers	2015	6	15	2.151059	1.807	6.75408	5.77191	0.005	0.611	0.562	569.1058	0.17
Sweepers/Scrubbers	2015	16	25	2.151059	1.807	6.75408	5.77191	0.005	0.611	0.562	569.1058	0.17
Sweepers/Scrubbers	2015	26	50	2.151059	1.807	6.75408	5.77191	0.005	0.611	0.562	569.1058	0.17
Sweepers/Scrubbers	2015	51	120	0.991855	0.833	4.09682	6.8863	0.005	0.61	0.561	513.6254	0.153
Sweepers/Scrubbers	2015	121	175	0.998266	0.839	3.98239	8.69682	0.005	0.479	0.441	512.5489	0.153
Sweepers/Scrubbers	2015	176	250	0.610252	0.513	2.07774	6.7446	0.005	0.268	0.246	509.3035	0.152
Sweepers/Scrubbers	2016	6	15	2.119969	1.781	6.78514	5.72609	0.005	0.603	0.555	563.2688	0.17
Sweepers/Scrubbers	2016	16	25	2.119969	1.781	6.78514	5.72609	0.005	0.603	0.555	563.2688	0.17
Sweepers/Scrubbers	2016	26	50	2.119969	1.781	6.78514	5.72609	0.005	0.603	0.555	563.2688	0.17
Sweepers/Scrubbers	2016	51	120	0.931404	0.783	4.05916	6.45405	0.005	0.571	0.525	508.3574	0.153
Sweepers/Scrubbers	2016	121	175	0.887319	0.746	3.83865	7.78746	0.005	0.419	0.385	507.292	0.153
Sweepers/Scrubbers	2016	176	250	0.619655	0.521	2.08905	6.78244	0.005	0.27	0.248	504.0799	0.152
Sweepers/Scrubbers	2017	6	15	2.037349	1.712	6.7185	5.62558	0.005	0.582	0.535	554.5133	0.17
Sweepers/Scrubbers	2017	16	25	2.037349	1.712	6.7185	5.62558	0.005	0.582	0.535	554.5133	0.17
Sweepers/Scrubbers	2017	26	50	2.037349	1.712	6.7185	5.62558	0.005	0.582	0.535	554.5133	0.17
Sweepers/Scrubbers	2017	51	120	0.857444	0.72	4.01005	6.0202	0.005	0.52	0.479	500.4555	0.153
Sweepers/Scrubbers	2017	121	175	0.845582	0.711	3.78429	7.42433	0.005	0.395	0.363	499.4066	0.153

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Trenchers	2023	251	500	0.236268	0.199	1.72273	2.00504	0.005	0.085	0.078	471.6125	0.153
Trenchers	2023	501	750	0.071688	0.06	0.95111	0.30278	0.005	0.009	0.008	474.4705	0.153
Trenchers	2024	6	15	0.714783	0.601	4.23326	3.83415	0.005	0.197	0.181	527.0216	0.17
Trenchers	2024	16	25	0.714783	0.601	4.23326	3.83415	0.005	0.197	0.181	527.0216	0.17
Trenchers	2024	26	50	0.714783	0.601	4.23326	3.83415	0.005	0.197	0.181	527.0216	0.17
Trenchers	2024	51	120	0.588274	0.494	3.76854	4.59319	0.005	0.318	0.292	475.6324	0.154
Trenchers	2024	121	175	0.432612	0.364	3.31073	3.66715	0.005	0.187	0.172	467.7326	0.151
Trenchers	2024	176	250	0.370794	0.312	1.59847	3.48285	0.005	0.145	0.134	473.8455	0.153
Trenchers	2024	251	500	0.228039	0.192	1.66789	1.85871	0.005	0.08	0.074	469.9942	0.152
Trenchers	2024	501	750	0.076605	0.064	0.95838	0.30435	0.005	0.009	0.008	474.4782	0.153
Trenchers	2025	6	15	0.645012	0.542	4.11956	3.65681	0.005	0.163	0.15	527.1603	0.17
Trenchers	2025	16	25	0.645012	0.542	4.11956	3.65681	0.005	0.163	0.15	527.1603	0.17
Trenchers	2025	26	50	0.645012	0.542	4.11956	3.65681	0.005	0.163	0.15	527.1603	0.17
Trenchers	2025	51	120	0.5433	0.457	3.73437	4.279	0.005	0.285	0.262	475.9014	0.154
Trenchers	2025	121	175	0.426125	0.358	3.30907	3.54907	0.005	0.179	0.165	467.732	0.151
Trenchers	2025	176	250	0.365033	0.307	1.60076	3.31521	0.005	0.144	0.132	473.9168	0.153
Trenchers	2025	251	500	0.227307	0.191	1.67595	1.82613	0.005	0.079	0.072	470.4394	0.152
Trenchers	2025	501	750	0.079299	0.067	0.96233	0.30526	0.005	0.009	0.008	474.4863	0.153
Trenchers	2030	6	15	1.409	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Trenchers	2030	16	25	5.681	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Trenchers	2030	26	50	7.055	0.851	5.208	3.835	0.007	0.144	0.144	568.299	0.076
Trenchers	2030	51	120	6.697	0.409	3.743	2.559	0.006	0.132	0.132	568.299	0.036
Trenchers	2030	121	175	10.904	0.3	3.273	1.529	0.006	0.08	0.08	568.3	0.027
Trenchers	2030	176	250	14.406	0.256	1.188	1.348	0.006	0.049	0.049	568.3	0.023
Trenchers	2030	251	500	19.534	0.249	1.209	1.231	0.005	0.046	0.046	568.299	0.022
Trenchers	2030	501	750	36.902	0.249	1.209	1.254	0.005	0.047	0.047	568.299	0.022
Trenchers	2035	6	15	1.409	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Trenchers	2035	16	25	5.681	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Trenchers	2035	26	50	5.645	0.681	5.055	3.548	0.007	0.084	0.084	568.299	0.061
Trenchers	2035	51	120	5.437	0.332	3.713	2.049	0.006	0.076	0.076	568.3	0.03
Trenchers	2035	121	175	8.756	0.241	3.264	0.966	0.006	0.048	0.048	568.299	0.021
Trenchers	2035	176	250	12.171	0.216	1.149	0.847	0.006	0.031	0.031	568.299	0.019
Trenchers	2035	251	500	16.707	0.213	1.126	0.79	0.005	0.029	0.029	568.299	0.019
Trenchers	2035	501	750	31.529	0.213	1.126	0.801	0.005	0.029	0.029	568.3	0.019
Trenchers	2040	6	15	1.409	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Trenchers	2040	16	25	5.681	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Trenchers	2040	26	50	4.961	0.598	4.98	3.374	0.007	0.052	0.052	568.299	0.054
Trenchers	2040	51	120	4.791	0.293	3.699	1.767	0.006	0.047	0.047	568.299	0.026
Trenchers	2040	121	175	7.533	0.207	3.26	0.639	0.006	0.03	0.03	568.3	0.018
Trenchers	2040	176	250	10.853	0.193	1.126	0.573	0.006	0.02	0.02	568.3	0.017
Trenchers	2040	251	500	15.011	0.191	1.081	0.542	0.005	0.02	0.02	568.3	0.017
Trenchers	2040	501	750	28.323	0.191	1.081	0.549	0.005	0.02	0.02	568.299	0.017
Welders	1990	6	15	4.525	1.804	4.999	9.999	1.018	0.974	0.974	568.299	0.162
Welders	1990	16	25	10.092	2.213	4.999	6.919	0.83	0.74	0.74	568.299	0.199
Welders	1990	26	50	40.899	3.899	8.078	7.611	0.846	1.085	1.085	568.3	0.351
Welders	1990	51	120	33.632	2.107	5.312	13.999	0.768	1.146	1.146	568.3	0.19
Welders	1990	121	175	57.219	1.442	4.703	12.598	0.736	0.761	0.761	568.299	0.13
Welders	1990	176	250	69.387	1.442	4.703	12.598	0.736	0.761	0.761	568.299	0.13
Welders	1990	251	500	88.323	1.304	8.704	12.141	0.642	0.672	0.672	568.3	0.117
Welders	2000	6	15	4.323	1.723	4.875	9.08	0.079	0.747	0.747	568.299	0.155
Welders	2000	16	25	9.556	2.095	4.783	6.405	0.065	0.569	0.569	568.299	0.189
Welders	2000	26	50	38.432	3.664	7.708	6.797	0.066	0.803	0.803	568.299	0.33
Welders	2000	51	120	27.201	1.704	4.433	10.046	0.06	0.791	0.791	568.3	0.153
Welders	2000	121	175	45.269	1.14	3.61	9.126	0.057	0.468	0.468	568.299	0.102
Welders	2000	176	250	45.901	0.954	2.869	8.783	0.057	0.384	0.384	568.299	0.086
Welders	2000	251	500	59.514	0.878	4.719	8.466	0.05	0.344	0.344	568.299	0.079
Welders	2005	6	15	3.497	1.394	4.38	7.817	0.079	0.621	0.621	568.299	0.125
Welders	2005	16	25	7.401	1.622	3.922	6.014	0.065	0.483	0.483	568.299	0.146
Welders	2005	26	50	34.243	3.264	7.144	6.342	0.066	0.746	0.746	568.299	0.294
Welders	2005	51	120	23.288	1.459	4.096	8.459	0.06	0.733	0.733	568.299	0.131
Welders	2005	121	175	37.837	0.953	3.26	7.736	0.057	0.405	0.405	568.299	0.086
Welders	2005	176	250	32.839	0.682	1.941	7.302	0.057	0.268	0.268	568.299	0.061
Welders	2005	251	500	41.097	0.606	2.566	6.755	0.05	0.241	0.241	568.299	0.054
Welders	2010	6	15	2.82	1.124	4.027	6.554	0.008	0.473	0.473	568.3	0.101
Welders	2010	16	25	5.78	1.267	3.309	5.477	0.007	0.384	0.384	568.299	0.114
Welders	2010	26	50	27.885	2.658	6.571	5.944	0.007	0.623	0.623	568.299	0.239
Welders	2010	51	120	18.341	1.149	3.928	6.999	0.006	0.61	0.61	568.299	0.103
Welders	2010	121	175	30.26	0.762	3.185	6.255	0.006	0.338	0.338	568.299	0.068
Welders	2010	176	250	23.908	0.496	1.433	5.857	0.006	0.189	0.189	568.299	0.044
Welders	2010	251	500	30.15	0.445	1.621	5.26	0.005	0.174	0.174	568.299	0.04
Welders	2011	6	15	2.677	1.067	3.952	6.283	0.008	0.441	0.441	568.299	0.096

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Welders	2011	16	25	5.436	1.192	3.179	5.36	0.007	0.361	0.361	568.3	0.107
Welders	2011	26	50	26.104	2.488	6.392	5.85	0.007	0.593	0.593	568.299	0.224
Welders	2011	51	120	17.199	1.077	3.891	6.632	0.006	0.584	0.584	568.3	0.097
Welders	2011	121	175	28.559	0.719	3.173	5.91	0.006	0.325	0.325	568.299	0.064
Welders	2011	176	250	22.03	0.457	1.34	5.462	0.006	0.17	0.17	568.299	0.041
Welders	2011	251	500	27.869	0.411	1.473	4.886	0.005	0.157	0.157	568.299	0.037
Welders	2012	6	15	2.527	1.007	3.874	5.999	0.008	0.407	0.407	568.299	0.09
Welders	2012	16	25	5.076	1.113	3.043	5.239	0.007	0.337	0.337	568.299	0.1
Welders	2012	26	50	24.122	2.299	6.185	5.749	0.007	0.56	0.56	568.299	0.207
Welders	2012	51	120	15.992	1.001	3.852	6.232	0.006	0.549	0.549	568.299	0.09
Welders	2012	121	175	26.736	0.673	3.161	5.543	0.006	0.303	0.303	568.299	0.06
Welders	2012	176	250	20.583	0.427	1.281	5.087	0.006	0.154	0.154	568.299	0.038
Welders	2012	251	500	26.151	0.386	1.369	4.532	0.005	0.144	0.144	568.299	0.034
Welders	2013	6	15	2.378	0.948	3.796	5.716	0.008	0.373	0.373	568.299	0.085
Welders	2013	16	25	4.718	1.034	2.907	5.117	0.007	0.314	0.314	568.299	0.093
Welders	2013	26	50	22.037	2.101	5.967	5.526	0.007	0.517	0.517	568.299	0.189
Welders	2013	51	120	14.766	0.925	3.813	5.836	0.006	0.507	0.507	568.3	0.083
Welders	2013	121	175	24.884	0.627	3.151	5.195	0.006	0.279	0.279	568.299	0.056
Welders	2013	176	250	19.36	0.402	1.241	4.723	0.006	0.141	0.141	568.299	0.036
Welders	2013	251	500	24.728	0.365	1.291	4.191	0.005	0.131	0.131	568.299	0.032
Welders	2014	6	15	2.237	0.891	3.723	5.445	0.008	0.341	0.341	568.3	0.08
Welders	2014	16	25	4.381	0.96	2.78	5	0.007	0.291	0.291	568.299	0.086
Welders	2014	26	50	19.935	1.9	5.749	5.308	0.007	0.473	0.473	568.3	0.171
Welders	2014	51	120	13.552	0.849	3.774	5.481	0.006	0.464	0.464	568.299	0.076
Welders	2014	121	175	23.067	0.581	3.141	4.862	0.006	0.255	0.255	568.299	0.052
Welders	2014	176	250	18.135	0.376	1.207	4.297	0.006	0.128	0.128	568.299	0.034
Welders	2014	251	500	23.294	0.343	1.227	3.788	0.005	0.119	0.119	568.299	0.031
Welders	2015	6	15	2.109	0.84	3.658	5.196	0.008	0.311	0.311	568.299	0.075
Welders	2015	16	25	4.078	0.894	2.666	4.89	0.007	0.27	0.27	568.299	0.08
Welders	2015	26	50	17.994	1.715	5.562	5.113	0.007	0.43	0.43	568.3	0.154
Welders	2015	51	120	12.337	0.772	3.738	5.077	0.006	0.419	0.419	568.299	0.069
Welders	2015	121	175	21.139	0.532	3.133	4.408	0.006	0.23	0.23	568.299	0.048
Welders	2015	176	250	16.976	0.352	1.178	3.88	0.006	0.116	0.116	568.299	0.031
Welders	2015	251	500	21.953	0.324	1.176	3.398	0.005	0.108	0.108	568.299	0.029
Welders	2016	6	15	2.03	0.809	3.622	5.023	0.008	0.289	0.289	568.299	0.073
Welders	2016	16	25	3.903	0.855	2.604	4.803	0.007	0.255	0.255	568.299	0.077
Welders	2016	26	50	16.155	1.54	5.395	4.936	0.007	0.389	0.389	568.299	0.138
Welders	2016	51	120	11.165	0.699	3.705	4.692	0.006	0.375	0.375	568.3	0.063
Welders	2016	121	175	19.285	0.486	3.128	3.973	0.006	0.206	0.206	568.299	0.043
Welders	2016	176	250	15.901	0.33	1.153	3.481	0.006	0.104	0.104	568.299	0.029
Welders	2016	251	500	20.731	0.306	1.134	3.032	0.005	0.097	0.097	568.299	0.027
Welders	2017	6	15	1.973	0.786	3.599	4.887	0.008	0.272	0.272	568.299	0.07
Welders	2017	16	25	3.785	0.83	2.564	4.729	0.007	0.243	0.243	568.299	0.074
Welders	2017	26	50	14.392	1.372	5.239	4.768	0.007	0.35	0.35	568.299	0.123
Welders	2017	51	120	10.06	0.63	3.675	4.328	0.006	0.332	0.332	568.299	0.056
Welders	2017	121	175	17.561	0.442	3.124	3.562	0.006	0.183	0.183	568.299	0.039
Welders	2017	176	250	14.942	0.31	1.133	3.105	0.006	0.094	0.094	568.299	0.028
Welders	2017	251	500	19.705	0.29	1.102	2.713	0.005	0.088	0.088	568.299	0.026
Welders	2018	6	15	1.923	0.766	3.58	4.762	0.008	0.256	0.256	568.3	0.069
Welders	2018	16	25	3.684	0.807	2.531	4.661	0.007	0.232	0.232	568.299	0.072
Welders	2018	26	50	12.698	1.21	5.092	4.607	0.007	0.311	0.311	568.299	0.109
Welders	2018	51	120	9.016	0.564	3.648	3.98	0.006	0.29	0.29	568.299	0.05
Welders	2018	121	175	15.966	0.402	3.123	3.176	0.006	0.162	0.162	568.299	0.036
Welders	2018	176	250	14.068	0.292	1.118	2.751	0.006	0.084	0.084	568.299	0.026
Welders	2018	251	500	18.804	0.277	1.08	2.43	0.005	0.08	0.08	568.299	0.025
Welders	2019	6	15	1.877	0.748	3.562	4.647	0.008	0.241	0.241	568.299	0.067
Welders	2019	16	25	3.592	0.787	2.501	4.596	0.007	0.222	0.222	568.299	0.071
Welders	2019	26	50	11.071	1.055	4.95	4.449	0.007	0.273	0.273	568.299	0.095
Welders	2019	51	120	8.032	0.503	3.623	3.648	0.006	0.25	0.25	568.299	0.045
Welders	2019	121	175	14.693	0.37	3.122	2.832	0.006	0.143	0.143	568.3	0.033
Welders	2019	176	250	13.284	0.276	1.104	2.432	0.006	0.075	0.075	568.299	0.024
Welders	2019	251	500	17.937	0.264	1.065	2.163	0.005	0.072	0.072	568.3	0.023
Welders	2020	6	15	1.835	0.731	3.546	4.542	0.008	0.227	0.227	568.299	0.066
Welders	2020	16	25	3.507	0.769	2.473	4.538	0.007	0.212	0.212	568.299	0.069
Welders	2020	26	50	9.83	0.937	4.84	4.304	0.007	0.238	0.238	568.299	0.084
Welders	2020	51	120	7.278	0.455	3.605	3.351	0.006	0.216	0.216	568.299	0.041
Welders	2020	121	175	13.663	0.344	3.122	2.523	0.006	0.127	0.127	568.299	0.031
Welders	2020	176	250	12.577	0.261	1.093	2.143	0.006	0.066	0.066	568.299	0.023
Welders	2020	251	500	17.094	0.252	1.055	1.91	0.005	0.064	0.064	568.299	0.022
Welders	2021	6	15	1.8	0.717	3.531	4.462	0.008	0.214	0.214	568.299	0.064
Welders	2021	16	25	3.431	0.752	2.446	4.497	0.007	0.201	0.201	568.299	0.067

Table 3.4 OFFROAD Equipment Emission Factors (g/bhp-hr)

Equipment Type	Year	Low HP	High HP	TOG	ROG	CO	NOX	SO2	PM10	PM2.5	CO2	CH4
Welders	2021	26	50	8.704	0.829	4.708	4.133	0.007	0.203	0.203	568.299	0.074
Welders	2021	51	120	6.572	0.411	3.579	3.042	0.006	0.184	0.184	568.299	0.037
Welders	2021	121	175	12.512	0.315	3.112	2.189	0.006	0.11	0.11	568.299	0.028
Welders	2021	176	250	11.711	0.243	1.081	1.836	0.006	0.057	0.057	568.299	0.021
Welders	2021	251	500	15.998	0.236	1.044	1.642	0.005	0.055	0.055	568.299	0.021
Welders	2022	6	15	1.774	0.707	3.519	4.408	0.008	0.203	0.203	568.3	0.063
Welders	2022	16	25	3.374	0.739	2.426	4.47	0.007	0.193	0.193	568.299	0.066
Welders	2022	26	50	7.959	0.758	4.645	4.007	0.007	0.175	0.175	568.299	0.068
Welders	2022	51	120	6.112	0.382	3.57	2.808	0.006	0.16	0.16	568.299	0.034
Welders	2022	121	175	11.714	0.295	3.113	1.935	0.006	0.097	0.097	568.3	0.026
Welders	2022	176	250	11.128	0.231	1.074	1.598	0.006	0.05	0.05	568.299	0.02
Welders	2022	251	500	15.267	0.225	1.038	1.454	0.005	0.049	0.049	568.3	0.02
Welders	2023	6	15	1.751	0.698	3.508	4.359	0.008	0.194	0.194	568.3	0.063
Welders	2023	16	25	3.322	0.728	2.407	4.447	0.007	0.186	0.186	568.299	0.065
Welders	2023	26	50	7.318	0.697	4.596	3.891	0.007	0.151	0.151	568.299	0.062
Welders	2023	51	120	5.713	0.357	3.564	2.599	0.006	0.139	0.139	568.299	0.032
Welders	2023	121	175	11.013	0.277	3.115	1.726	0.006	0.085	0.085	568.299	0.025
Welders	2023	176	250	10.606	0.22	1.071	1.404	0.006	0.044	0.044	568.299	0.019
Welders	2023	251	500	14.602	0.215	1.034	1.289	0.005	0.042	0.042	568.299	0.019
Welders	2024	6	15	1.731	0.69	3.499	4.316	0.008	0.188	0.188	568.299	0.062
Welders	2024	16	25	3.276	0.718	2.39	4.426	0.007	0.181	0.181	568.299	0.064
Welders	2024	26	50	6.78	0.646	4.557	3.782	0.007	0.13	0.13	568.299	0.058
Welders	2024	51	120	5.366	0.336	3.56	2.43	0.006	0.12	0.12	568.299	0.03
Welders	2024	121	175	10.369	0.261	3.118	1.541	0.006	0.074	0.074	568.299	0.023
Welders	2024	176	250	10.107	0.21	1.068	1.234	0.006	0.038	0.038	568.299	0.018
Welders	2024	251	500	13.957	0.206	1.032	1.135	0.005	0.037	0.037	568.299	0.018
Welders	2025	6	15	1.713	0.683	3.491	4.278	0.008	0.183	0.183	568.3	0.061
Welders	2025	16	25	3.237	0.709	2.376	4.407	0.007	0.177	0.177	568.299	0.064
Welders	2025	26	50	6.315	0.602	4.524	3.676	0.007	0.112	0.112	568.299	0.054
Welders	2025	51	120	5.055	0.316	3.557	2.283	0.006	0.102	0.102	568.299	0.028
Welders	2025	121	175	9.743	0.245	3.121	1.365	0.006	0.063	0.063	568.299	0.022
Welders	2025	176	250	9.621	0.199	1.065	1.075	0.006	0.032	0.032	568.299	0.018
Welders	2025	251	500	13.325	0.196	1.029	0.99	0.005	0.031	0.031	568.299	0.017
Welders	2030	6	15	1.665	0.663	3.47	4.164	0.008	0.166	0.166	568.299	0.059
Welders	2030	16	25	3.133	0.687	2.34	4.347	0.007	0.165	0.165	568.299	0.061
Welders	2030	26	50	4.719	0.449	4.387	3.273	0.007	0.045	0.045	568.299	0.04
Welders	2030	51	120	3.827	0.239	3.535	1.707	0.006	0.04	0.04	568.299	0.021
Welders	2030	121	175	7.011	0.176	3.121	0.628	0.006	0.027	0.027	568.299	0.015
Welders	2030	176	250	7.829	0.162	1.063	0.525	0.006	0.017	0.017	568.299	0.014
Welders	2030	251	500	10.967	0.161	1.027	0.495	0.005	0.017	0.017	568.299	0.014
Welders	2035	6	15	1.659	0.661	3.469	4.143	0.008	0.162	0.162	568.299	0.059
Welders	2035	16	25	3.126	0.685	2.339	4.332	0.007	0.162	0.162	568.299	0.061
Welders	2035	26	50	4.262	0.406	4.349	3.147	0.007	0.022	0.022	568.299	0.036
Welders	2035	51	120	3.418	0.214	3.528	1.509	0.006	0.019	0.019	568.299	0.019
Welders	2035	121	175	6.087	0.153	3.121	0.387	0.006	0.015	0.015	568.299	0.013
Welders	2035	176	250	7.189	0.149	1.063	0.343	0.006	0.012	0.012	568.299	0.013
Welders	2035	251	500	10.118	0.149	1.027	0.339	0.005	0.012	0.012	568.299	0.013
Welders	2040	6	15	1.659	0.661	3.469	4.142	0.008	0.161	0.161	568.299	0.059
Welders	2040	16	25	3.126	0.685	2.339	4.332	0.007	0.161	0.161	568.299	0.061
Welders	2040	26	50	4.218	0.402	4.336	3.093	0.007	0.015	0.015	568.3	0.036
Welders	2040	51	120	3.322	0.208	3.524	1.447	0.006	0.014	0.014	568.299	0.018
Welders	2040	121	175	5.753	0.145	3.118	0.303	0.006	0.011	0.011	568.299	0.013
Welders	2040	176	250	6.911	0.143	1.062	0.287	0.006	0.01	0.01	568.3	0.012
Welders	2040	251	500	9.728	0.143	1.026	0.287	0.005	0.01	0.01	568.299	0.012

Table 3.5 OFFROAD Emission Factor Based on Engine Tier

Tier	Low HP	High HP	CO, g/bhp-hr	NOx, g/bhp-hr	PM10, g/bhp-hr	PM2.5, g/bhp-hr	ROG, g/bhp-hr
Tier 1	25	49	4.1	5.26	0.48	0.48	1.74
	50	74	6.9	6.54	0.552	0.552	1.19
	75	119	6.9	6.54	0.552	0.552	1.19
	120	174	6.9	6.54	0.274	0.274	0.82
	175	299	6.9	5.93	0.108	0.108	0.38
	300	599	6.9	5.93	0.108	0.108	0.38
	600	750	6.9	5.93	0.108	0.108	0.38
Tier 2	751	2000	6.9	5.93	0.108	0.108	0.38
	25	49	4.1	4.63	0.28	0.28	0.29
	50	74	3.7	4.75	0.192	0.192	0.23
	75	119	3.7	4.75	0.192	0.192	0.23
	120	174	3.7	4.17	0.128	0.128	0.19
	175	299	2.6	4.15	0.088	0.088	0.12
	300	599	2.6	3.79	0.088	0.088	0.12
Tier 3	600	750	2.6	3.79	0.088	0.088	0.12
	751	2000	2.6	3.79	0.088	0.088	0.12
	25	49	4.1	4.63	0.28	0.28	0.29
	50	74	3.7	2.74	0.192	0.192	0.12
	75	119	3.7	2.74	0.192	0.192	0.12
	120	174	3.7	2.32	0.112	0.112	0.12
	175	299	2.6	2.32	0.088	0.088	0.12
Tier 4 Interim	300	599	2.6	2.32	0.088	0.088	0.12
	600	750	2.6	2.32	0.088	0.088	0.12
	751	2000	2.6	2.32	0.088	0.088	0.12
	25	49	4.1	4.55	0.128	0.128	0.12
	50	74	3.7	2.74	0.112	0.112	0.12
	75	119	3.7	2.14	0.008	0.008	0.11
	120	174	3.7	2.15	0.008	0.008	0.06
Tier 4 Final	175	299	2.6	1.29	0.008	0.008	0.08
	300	599	2.6	1.29	0.008	0.008	0.08
	600	750	2.6	1.29	0.008	0.008	0.08
	751	2000	2.6	2.24	0.048	0.048	0.12
	25	49	4.1	2.75	0.008	0.008	0.12
	50	74	3.7	2.74	0.008	0.008	0.12
	75	119	3.7	0.26	0.008	0.008	0.06
Tier 4 Final	120	174	3.7	0.26	0.008	0.008	0.06
	175	299	2.2	0.26	0.008	0.008	0.06
	300	599	2.2	0.26	0.008	0.008	0.06
	600	750	2.2	0.26	0.008	0.008	0.06
	751	2000	2.6	2.24	0.016	0.016	0.06

Source:

ARB. 2011. The Carl Moyer Program Guidelines. Available at:
https://ww3.arb.ca.gov/msprog/moyer/guidelines/2011gl/2011cmpgl_20161228.pdf

**Table 3.6 Percent Reduction in Diesel Emission Factors For Compressed Natural Gas Equipment
Based on Data Available in OFFROAD2011**

Equipment Type	MinYear	MaxYear	Low HP	High HP	CO	CO2E	NOX	PM10	PM2.5	ROG	SO2	TOG
Aerial Lifts	1990	2009	0	15	-27.49	-0.27	0.55	0.36	0.36	0.73	1	0.73
Aerial Lifts	1990	2009	16	25	-29.12	-0.31	0.46	0.26	0.26	0.74	1	0.74
Air Conditioner	1990	2009	0	175	-4.51	-0.21	-0.3	0.84	0.84	0.87	1	0.87
Baggage Tug	1990	2009	0	120	-5.07	-0.24	0.1	0.94	0.94	0.88	1	0.88
Belt Loader	1990	2009	0	120	-4.69	-0.23	0.06	0.93	0.93	0.89	1	0.89
Bobtail	1990	2009	0	120	-4.41	-0.22	0.23	0.93	0.93	0.91	1	0.91
Cargo Loader	1990	2009	0	120	-6.25	-0.25	-0.04	0.93	0.93	0.84	1	0.84
Catering Truck	1990	2009	0	250	-11.52	-0.22	-0.44	0.7	0.7	0.78	1	0.78
Forklifts	1990	2009	0	50	-0.21	-0.23	-0.51	0.93	0.93	0.95	1	0.95
Forklifts	1990	2009	51	120	-5.94	-0.25	0.05	0.93	0.93	0.87	1	0.87
Forklifts	1990	2009	121	175	-5.81	-0.22	-0.02	0.88	0.88	0.89	1	0.89
Generator Sets	1990	2009	0	120	-3.97	-0.12	-0.02	0.92	0.92	0.91	1	0.91
Generator Sets	1990	2009	121	175	-4.15	-0.12	-0.11	0.85	0.85	0.89	1	0.89
Lav Truck	1990	2009	0	175	-4.57	-0.22	-0.11	0.88	0.88	0.89	1	0.89
Lift	1990	2009	0	120	-4.65	-0.23	-0.05	0.92	0.92	0.89	1	0.89
Aerial Lifts	2010	2014	0	15	-30.37	-0.27	0.31	-0.29	-0.29	0.59	1	0.59
Aerial Lifts	2010	2014	16	25	-37.55	-0.32	0.4	-0.03	-0.03	0.6	1	0.6
Air Conditioner	2010	2014	0	175	-4.5	-0.2	-0.36	0.73	0.73	0.85	1	0.85
Baggage Tug	2010	2014	0	120	-5.56	-0.22	0.22	0.92	0.92	0.88	1	0.88
Belt Loader	2010	2014	0	120	-5.13	-0.22	0.21	0.92	0.92	0.9	1	0.9
Bobtail	2010	2014	0	120	-4.8	-0.19	0.64	0.91	0.91	0.96	1	0.96
Cargo Loader	2010	2014	0	120	-6.78	-0.24	0.06	0.91	0.91	0.84	1	0.84
Catering Truck	2010	2014	0	250	-17.32	-0.21	-0.38	0.53	0.53	0.73	1	0.73
Forklifts	2010	2014	0	50	-0.421	-0.1805	0.3063	0.91412	0.906651	0.9572	1	0.9118
Forklifts	2010	2014	51	120	-6.412	-0.3201	0.4354	0.90105	0.892442	0.8764	1	0.4569
Forklifts	2010	2014	121	175	-5.588	-0.3061	0.5219	0.84295	0.82929	0.8844	1	0.0884
Generator Sets	2010	2014	0	120	-4.3	-0.11	0.11	0.89	0.89	0.91	1	0.91
Generator Sets	2010	2014	121	175	-4.36	-0.11	0	0.81	0.81	0.89	1	0.89
Lav Truck	2010	2014	0	175	-4.77	-0.21	0.01	0.84	0.84	0.9	1	0.9
Lift	2010	2014	0	120	-5.03	-0.22	0.09	0.9	0.9	0.89	1	0.89
Aerial Lifts	2015	2019	0	15	-30.4	-0.27	0.28	-0.86	-0.86	0.57	1	0.57
Aerial Lifts	2015	2019	16	25	-44.65	-0.32	0.32	-0.48	-0.48	0.46	1	0.46
Air Conditioner	2015	2019	0	175	-4.5	-0.19	-0.41	0.47	0.47	0.85	1	0.85
Baggage Tug	2015	2019	0	120	-5.9	-0.21	0.3	0.91	0.91	0.89	1	0.89
Belt Loader	2015	2019	0	120	-5.41	-0.21	0.31	0.9	0.9	0.91	1	0.91
Bobtail	2015	2019	0	120	-5.05	-0.19	0.65	0.89	0.89	0.96	1	0.96
Cargo Loader	2015	2019	0	120	-7.2	-0.22	0.04	0.88	0.88	0.83	1	0.83
Catering Truck	2015	2019	0	250	-18.99	-0.2	-0.54	0.16	0.16	0.72	1	0.72

**Table 3.6 Percent Reduction in Diesel Emission Factors For Compressed Natural Gas Equipment
Based on Data Available in OFFROAD2011**

Equipment Type	MinYear	MaxYear	Low HP	High HP	CO	CO2E	NOX	PM10	PM2.5	ROG	SO2	TOG
Forklifts	2015	2019	0	50	-0.486	-0.1657	0.4918	0.90744	0.899394	0.9643	1	0.9263
Forklifts	2015	2019	51	120	-6.492	-0.3072	0.5103	0.89309	0.883797	0.9112	1	0.6099
Forklifts	2015	2019	121	175	-5.638	-0.2943	0.6395	0.82031	0.80469	0.9225	1	0.3883
Generator Sets	2015	2019	0	120	-4.56	-0.11	0.22	0.84	0.84	0.91	1	0.91
Generator Sets	2015	2019	121	175	-4.44	-0.1	0.12	0.71	0.71	0.9	1	0.9
Lav Truck	2015	2019	0	175	-4.83	-0.2	0.1	0.76	0.76	0.91	1	0.91
Lift	2015	2019	0	120	-5.31	-0.21	0.17	0.85	0.85	0.89	1	0.89
Aerial Lifts	2020	2024	0	15	-30.4	-0.27	0.28	-0.91	-0.91	0.57	1	0.57
Aerial Lifts	2020	2024	16	25	-47.22	-0.32	0.29	-0.91	-0.91	0.39	1	0.39
Air Conditioner	2020	2024	0	175	-4.49	-0.19	-1.04	-0.81	-0.81	0.88	1	0.88
Baggage Tug	2020	2024	0	120	-6.21	-0.2	0.31	0.87	0.87	0.9	1	0.9
Belt Loader	2020	2024	0	120	-5.69	-0.2	0.31	0.85	0.85	0.91	1	0.91
Bobtail	2020	2024	0	120	-5.26	-0.19	0.53	0.84	0.84	0.95	1	0.95
Cargo Loader	2020	2024	0	120	-7.57	-0.21	-0.09	0.78	0.78	0.81	1	0.81
Catering Truck	2020	2024	0	250	-19.46	-0.2	-1.2	-0.75	-0.75	0.73	1	0.73
Forklifts	2020	2024	0	50	-0.898	-0.1637	0.3924	0.83451	0.820116	0.9414	1	0.8791
Forklifts	2020	2024	51	120	-7.096	-0.3063	0.2609	0.80708	0.790309	0.858	1	0.3757
Forklifts	2020	2024	121	175	-6.198	-0.2936	0.3988	0.66593	0.63688	0.89	1	0.1317
Generator Sets	2020	2024	0	120	-4.76	-0.1	0.25	0.69	0.69	0.91	1	0.91
Generator Sets	2020	2024	121	175	-4.46	-0.1	0.05	0.48	0.48	0.9	1	0.9
Lav Truck	2020	2024	0	175	-4.85	-0.19	-0.03	0.56	0.56	0.91	1	0.91
Lift	2020	2024	0	120	-5.53	-0.2	0.13	0.72	0.72	0.89	1	0.89
Aerial Lifts	2025	2040	0	15	-30.4	-0.27	0.28	-0.91	-0.91	0.57	1	0.57
Aerial Lifts	2025	2040	16	25	-48.03	-0.32	0.27	-1.09	-1.09	0.37	1	0.37
Air Conditioner	2025	2040	0	175	-4.5	-0.19	-3.46	-3.31	-3.31	0.88	1	0.88
Baggage Tug	2025	2040	0	120	-6.4	-0.19	0.17	0.79	0.79	0.89	1	0.89
Belt Loader	2025	2040	0	120	-5.87	-0.2	0.16	0.72	0.72	0.9	1	0.9
Bobtail	2025	2040	0	120	-5.48	-0.19	0.32	0.72	0.72	0.93	1	0.93
Cargo Loader	2025	2040	0	120	-7.63	-0.2	-0.4	0.56	0.56	0.78	1	0.78
Catering Truck	2025	2040	0	250	-19.36	-0.2	-3.3	-2.94	-2.94	0.72	1	0.72
Forklifts	2025	2040	0	50	-1.152	-0.1631	0.2811	0.6679	0.639022	0.9001	1	0.7938
Forklifts	2025	2040	51	120	-7.432	-0.3058	-0.17	0.57587	0.538985	0.7693	1	-0.014
Forklifts	2025	2040	121	175	-6.368	-0.2931	-0.205	0.30273	0.242098	0.8135	1	-0.476
Generator Sets	2025	2040	0	120	-4.83	-0.1	0.13	0.37	0.37	0.9	1	0.9
Generator Sets	2025	2040	121	175	-4.46	-0.1	-0.37	-0.03	-0.03	0.9	1	0.9
Lav Truck	2025	2040	0	175	-4.86	-0.19	-0.57	0.05	0.05	0.9	1	0.9
Lift	2025	2040	0	120	-5.6	-0.2	-0.08	0.37	0.37	0.87	1	0.87

Table 3.7 Grading Equipment Acres Per Day

Equipment Type	Acres per 8-hour Day
Crawler Tractors	0.5
Graders	0.5
Rubber Tired Dozers	0.5
Scrapers	1

Notes:

1. Based on Walker's Building Estimator's Reference Book and determinations by South Coast AQMD.

Table 4.1 Road Characteristics

Location Type	Name	Average Vehicle Weight	Percent of Paved Roads			
			Construction Worker	Construction Hauling	Construction Vendor	Operational Mobile
Air Basin	San Francisco Bay Area	2.4	100	100	100	100
	San Joaquin Valley	2.4	100	100	100	100
	South Central Coast	2.4	100	100	100	100
	South Coast	2.4	100	100	100	100
	Amador County APCD	2.4	100	100	100	100
	Antelope Valley APCD	2.4	100	100	100	100
	Bay Area AQMD	2.4	100	100	100	100
	Butte County AQMD	2.4	100	100	100	100
	Calaveras County AQMD	2.4	100	100	100	100
	Colusa County APCD	2.4	100	100	100	100
	El Dorado County AQMD	2.4	100	100	100	100
	Feather River AQMD	2.4	100	100	100	100
	Glenn County APCD	2.4	100	100	100	100
	Great Basin UAPCD	2.4	100	100	100	100
	Imperial County APCD	2.4	50	50	50	50
Air District	Kern County APCD	2.4	100	100	100	100
	Lake County AQMD	2.4	100	100	100	100
	Lassen County APCD	2.4	100	100	100	100
	Mariposa County APCD	2.4	100	100	100	100
	Mendocino County AQMD	2.4	55	55	55	55
	Modoc County APCD	2.4	100	100	100	100
	Mojave Desert AQMD	2.4	100	100	100	100
	Monterey Bay Unified APCD	2.4	100	100	100	100
	North Coast Unified APCD	2.4	100	100	100	100
	Northern Sierra AQMD	2.4	100	100	100	100
	Northern Sonoma County APCD	2.4	100	100	100	100
	Placer County APCD	2.4	100	100	100	100
	Sacramento Metropolitan AQMD	2.4	100	100	100	100
	San Diego County APCD	2.4	100	100	100	100
	San Joaquin Valley Unified APCD	2.4	100	100	100	100
	San Luis Obispo County APCD	2.4	100	100	100	100
	Santa Barbara County APCD	2.4	100	100	100	100
	Shasta County AQMD	2.4	100	100	100	100
	Siskiyou County APCD	2.4	100	100	100	100
	South Coast AQMD	2.4	100	100	100	100
	Tehama County APCD	2.4	100	100	100	100
	Tuolumne County APCD	2.4	100	100	100	100
	Ventura County APCD	2.4	100	100	100	100
	Yolo/Solano AQMD	2.4	100	100	100	100
	Alameda	2.4	100	100	100	100
	Alpine	2.4	100	100	100	100
	Amador	2.4	100	100	100	100
	Butte	2.4	100	100	100	100
	Calaveras	2.4	100	100	100	100
	Colusa	2.4	100	100	100	100
	Contra Costa	2.4	100	100	100	100
	Del Norte	2.4	100	100	100	100
	El Dorado-Lake Tahoe	2.4	100	100	100	100
	El Dorado-Mountain County	2.4	100	100	100	100
Fresno	2.4	100	100	100	100	

Table 4.1 Road Characteristics

Location Type	Name	Average Vehicle Weight	Percent of Paved Roads			
			Construction Worker	Construction Hauling	Construction Vendor	Operational Mobile
Counties	Glenn	2.4	100	100	100	100
	Humboldt	2.4	100	100	100	100
	Imperial	2.4	50	50	50	50
	Inyo	2.4	100	100	100	100
	Kern-Mojave Desert	2.4	100	100	100	100
	Kern-San Joaquin	2.4	100	100	100	100
	Kings	2.4	100	100	100	100
	Lake	2.4	100	100	100	100
	Lassen	2.4	100	100	100	100
	Los Angeles-Mojave Desert	2.4	100	100	100	100
	Los Angeles-South Coast	2.4	100	100	100	100
	Madera	2.4	100	100	100	100
	Marin	2.4	100	100	100	100
	Mariposa	2.4	100	100	100	100
	Mendocino-Coastal	2.4	70	70	70	70
	Mendocino-Inland	2.4	80	80	80	80
	Mendocino-Rural Inland North	2.4	30	30	30	30
	Mendocino-Rural Inland South	2.4	40	40	40	40
	Merced	2.4	100	100	100	100
	Modoc	2.4	100	100	100	100
	Mono	2.4	100	100	100	100
	Monterey	2.4	100	100	100	100
	Napa	2.4	100	100	100	100
	Nevada	2.4	100	100	100	100
	Orange	2.4	100	100	100	100
	Placer-Lake Tahoe	2.4	100	100	100	100
	Placer-Mountain Counties	2.4	100	100	100	100
	Placer-Sacramento	2.4	100	100	100	100
	Plumas	2.4	100	100	100	100
	Riverside-Mojave Desert MDAQMD	2.4	100	100	100	100
	Riverside-Mojave Desert South Coast AQMD	2.4	100	100	100	100
	Riverside-Salton Sea	2.4	100	100	100	100
	Riverside-South Coast	2.4	100	100	100	100
	Sacramento	2.4	100	100	100	100
	San Benito	2.4	100	100	100	100
	San Bernardino-Mojave Desert	2.4	100	100	100	100
	San Bernardino-South Coast	2.4	100	100	100	100
	San Diego	2.4	100	100	100	100
	San Francisco	2.4	100	100	100	100
	San Joaquin	2.4	100	100	100	100
	San Luis Obispo	2.4	100	100	100	100
	San Mateo	2.4	100	100	100	100
	Santa Barbara-North of Santa Ynez	2.4	100	100	100	100
	Santa Barbara-South of Santa Ynez Range	2.4	100	100	100	100
	Santa Clara	2.4	100	100	100	100
	Santa Cruz	2.4	100	100	100	100
	Shasta	2.4	100	100	100	100
Sierra	2.4	100	100	100	100	
Siskiyou	2.4	100	100	100	100	
Solano-Sacramento	2.4	100	100	100	100	
Solano-San Francisco	2.4	100	100	100	100	
Sonoma-North Coast	2.4	100	100	100	100	
Sonoma-San Francisco	2.4	100	100	100	100	
Stanislaus	2.4	100	100	100	100	
Sutter	2.4	100	100	100	100	

Table 4.1 Road Characteristics

Location Type	Name	Average Vehicle Weight	Percent of Paved Roads			
			Construction Worker	Construction Hauling	Construction Vendor	Operational Mobile
	Tehama	2.4	100	100	100	100
	Trinity	2.4	100	100	100	100
	Tulare	2.4	100	100	100	100
	Tuolumne	2.4	100	100	100	100
	Ventura	2.4	100	100	100	100
	Yolo	2.4	94	94	94	94
	Yuba	2.4	100	100	100	100
	Statewide	2.4	100	100	100	100
	Sonoma-San Francisco	2.4	100	100	100	100
	Stanislaus	2.4	100	100	100	100
	Sutter	2.4	100	100	100	100
	Tehama	2.4	100	100	100	100
	Trinity	2.4	100	100	100	100
	Tulare	2.4	100	100	100	100
	Tuolumne	2.4	100	100	100	100
	Ventura	2.4	100	100	100	100
	Yolo	2.4	100	100	100	100
	Yuba	2.4	100	100	100	100
Statewide	Statewide	2.4	100	100	100	100

Notes:

1. Average Vehicle Weight is based on average for vehicles in California on all Roads.
2. Percent paved roads was set to 100% by default unless the district supplied a different ratio.

Table 4.2 Mobile Trip Characteristics Dependent on Location

Location Type	Name	Rural Trip Length (miles)						Urban Trip Length (miles)						Residential Trip Type Percentage		
		C-C	C-NW	C-W	H-O	H-S	H-W	C-C	C-NW	C-W	H-O	H-S	H-W	H-W	H-S	H-O
		Air Basin	Great Basin Valleys	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
Lake County	6.6		6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
Lake Tahoe	6.6		6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
Mojave Desert	6.6		6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	40.2	19.2	40.6
Mountain Counties	6.6		6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	37.3	20.7	42
North Central Coast	6.6		6.6	14.7	13.6	9.8	17.1	7.3	7.3	9.5	7.2	6.2	12.3	23	15	62
North Coast	6.6		6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
Northeast Plateau	6.6		6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
Sacramento Valley	6.6		6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	32.9	18	49.1
Salton Sea	6.2		6.2	13.8	8.1	6.9	14.6	4.2	5.4	12.5	4.5	3.5	11	40.2	19.2	40.6
San Diego	6.6		6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	41.6	18.8	39.6
San Francisco Bay Area	6.6		6.6	14.7	5.7	4.8	10.8	7.3	7.3	9.5	5.7	4.8	10.8	31	15	54
San Joaquin Valley	6.6		6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	45.6	19	35.4
South Central Coast	6.6		6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	37.5	15	47.5
South Coast	10.1		7.9	18.5	12.9	9.6	19.8	8.4	6.9	16.6	8.7	5.9	14.7	40.2	19.2	40.6
Air District	Amador County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	37.3	20.7	42
	Antelope Valley APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	40.2	19.2	40.6
	Bay Area AQMD	6.6	6.6	14.7	5.7	4.8	10.8	7.3	7.3	9.5	5.7	4.8	10.8	31	15	54
	Butte County AQMD	10.5	10.5	10.5	8	4.9	11.1	6	6	6	7.9	3	7.3	35	17	48
	Calaveras County AQMD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	37.3	20.7	42
	Colusa County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	El Dorado County AQMD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.6	21	36.4
	Feather River AQMD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.6	21	36.4
	Glenn County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Great Basin UAPCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Imperial County APCD	9.5	11.9	16.4	8.1	11.7	10.2	5	8.9	6.7	3.7	3.9	7.3	40.2	19.2	40.6
	Kern County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	46.4	16.4	37.2
	Lake County AQMD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Lassen County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Mariposa County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	37.3	20.7	42
	Mendocino County AQMD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Modoc County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Mojave Desert AQMD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	40.2	19.2	40.6
	Monterey Bay Unified APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	44	18.8	37.2
	North Coast Unified APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Northern Sierra AQMD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	37.3	20.7	42
	Northern Sonoma County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.9	19.5	37.6
	Placer County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.6	21	36.4
	Sacramento Metropolitan AQMD	7.5	8.5	15	8.5	7.5	15	5	6.5	10	6.5	5	10	46.5	12.5	41
	San Diego County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	41.6	18.8	39.6
	San Joaquin Valley Unified APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	45.6	19	35.4
	San Luis Obispo County APCD	13	13	13	13	13	13	5	5	13	5	5	13	35.8	21	43.2
Santa Barbara County APCD	5.5	6.4	6.6	4.9	4.5	8.3	5.5	6.4	6.6	4.9	4.5	8.3	25.6	9.9	64.5	
Shasta County AQMD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	41	21.2	37.8	

Table 4.2 Mobile Trip Characteristics Dependent on Location

Location Type	Name	Rural Trip Length (miles)						Urban Trip Length (miles)						Residential Trip Type Percentage		
		C-C	C-NW	C-W	H-O	H-S	H-W	C-C	C-NW	C-W	H-O	H-S	H-W	H-W	H-S	H-O
			Siskiyou County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	South Coast AQMD	10.1	7.9	18.5	12.9	9.6	19.8	8.4	6.9	16.6	8.7	5.9	14.7	40.2	19.2	40.6
	Tehama County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	41	21.2	37.8
	Tuolumne County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	37.3	20.7	42
	Ventura County APCD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	32.9	18	49.1
	Yolo/Solano AQMD	8	9	15	9	8	15	5	7	10	7	5	10	46	13	41
Counties	Alameda	6.6	6.6	14.7	5.7	4.8	10.8	7.3	7.3	9.5	5.7	4.8	10.8	31	15	54
	Alpine	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Amador	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	37.3	20.7	42
	Butte	10.5	10.5	10.5	8	4.9	11.1	6	6	6	7.9	3	7.3	35	17	48
	Calaveras	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	37.3	20.7	42
	Colusa	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Contra Costa	6.6	6.6	14.7	5.7	4.8	10.8	7.3	7.3	9.5	5.7	4.8	10.8	31	15	54
	Del Norte	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	El Dorado-Lake Tahoe	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.6	21	36.4
	El Dorado-Mountain County	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.6	21	36.4
	Fresno	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	48.4	15.9	35.7
	Glenn	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Humboldt	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Imperial	9.5	11.9	16.4	8.1	11.7	10.2	5	8.9	6.7	3.7	3.9	7.3	40.2	19.2	40.6
	Inyo	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Kern-Mojave Desert	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	46.4	16.4	37.2
	Kern-San Joaquin	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	46.4	16.4	37.2
	Kings	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Lake	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Lassen	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Los Angeles-Mojave Desert	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	40.2	19.2	40.6
	Los Angeles-South Coast	10.1	7.9	18.5	12.9	9.6	19.8	8.4	6.9	16.6	8.7	5.9	14.7	40.2	19.2	40.6
	Madera	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Marin	6.6	6.6	14.7	5.7	4.8	10.8	7.3	7.3	9.5	5.7	4.8	10.8	31	15	54
	Mariposa	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	37.3	20.7	42
	Mendocino-Coastal	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Mendocino-Inland	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Mendocino-Rural Inland North	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Mendocino-Rural Inland South	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1
	Merced	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	46.9	17.4	35.7
Modoc	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1	
Mono	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1	
Monterey	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	44	18.8	37.2	
Napa	6.6	6.6	14.7	5.7	4.8	10.8	7.3	7.3	9.5	5.7	4.8	10.8	31	15	54	
Nevada	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1	
Orange	10.1	7.9	18.5	12.9	9.6	19.8	8.4	6.9	16.6	8.7	5.9	14.7	40.2	19.2	40.6	
Placer-Lake Tahoe	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.6	21	36.4	
Placer-Mountain Counties	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.6	21	36.4	

Table 4.2 Mobile Trip Characteristics Dependent on Location

Location Type	Name	Rural Trip Length (miles)						Urban Trip Length (miles)						Residential Trip Type Percentage		
		C-C	C-NW	C-W	H-O	H-S	H-W	C-C	C-NW	C-W	H-O	H-S	H-W	H-W	H-S	H-O
		Placer-Sacramento	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.6	21	36.4
Plumas	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1	
Riverside-Mojave Desert MDAQMD	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	40.2	19.2	40.6	
Riverside-Mojave Desert South Coast AQMD	10.1	7.9	18.5	12.9	9.6	19.8	8.4	6.9	16.6	8.7	5.9	14.7	40.2	19.2	40.6	
Riverside-Salton Sea	6.2	6.2	13.8	8.1	6.9	14.6	4.2	5.4	12.5	4.5	3.5	11	40.2	19.2	40.6	
Riverside-South Coast	10.1	7.9	18.5	12.9	9.6	19.8	8.4	6.9	16.6	8.7	5.9	14.7	40.2	19.2	40.6	
Sacramento	7.5	8.5	15	8.5	7.5	15	5	6.5	10	6.5	5	10	46.5	12.5	41	
San Benito	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	44	18.8	37.2	
San Bernardino-Mojave Desert	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	40.2	19.2	40.6	
San Bernardino-South Coast	10.1	7.9	18.5	12.9	9.6	19.8	8.4	6.9	16.6	8.7	5.9	14.7	40.2	19.2	40.6	
San Diego	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	41.6	18.8	39.6	
San Francisco	6.6	6.6	14.7	5.7	4.8	10.8	7.3	7.3	9.5	5.7	4.8	10.8	31	15	54	
San Joaquin	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	45.6	19	35.4	
San Luis Obispo	13	13	13	13	13	13	5	5	13	5	5	13	35.8	21	43.2	
San Mateo	6.6	6.6	14.7	5.7	4.8	10.8	7.3	7.3	9.5	5.7	4.8	10.8	31	15	54	
Santa Barbara-North of Santa Ynez	5.5	6.4	6.6	4.9	4.5	8.3	5.5	6.4	6.6	4.9	4.5	8.3	25.6	9.9	64.5	
Santa Barbara-South of Santa Ynez Range	5.5	6.4	6.6	4.9	4.5	8.3	5.5	6.4	6.6	4.9	4.5	8.3	25.6	9.9	64.5	
Santa Clara	6.6	6.6	14.7	5.7	4.8	10.8	7.3	7.3	9.5	5.7	4.8	10.8	31	15	54	
Santa Cruz	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	44	18.8	37.2	
Shasta	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	41	21.2	37.8	
Sierra	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1	
Siskiyou	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1	
Solano-Sacramento	8	9	15	9	8	15	5	7	10	7	5	10	46	13	41	
Solano-San Francisco	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	31	15	54	
Sonoma-North Coast	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.9	19.5	37.6	
Sonoma-San Francisco	6.6	6.6	14.7	5.7	4.8	10.8	7.3	7.3	9.5	5.7	4.8	10.8	31	15	54	
Stanislaus	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	48.4	13.9	37.7	
Sutter	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.6	21	36.4	
Tehama	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	41	21.2	37.8	
Trinity	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.3	19.6	38.1	
Tulare	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	38.4	22.6	39	
Tuolumne	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	37.3	20.7	42	
Ventura	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	32.9	18	49.1	
Yolo	8	9	15	9	8	15	5	7	10	7	5	10	46	13	41	
Yuba	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	42.6	21	36.4	
Statewide	Statewide	6.6	6.6	14.7	7.9	7.1	16.8	7.3	7.3	9.5	7.5	7.3	10.8	41.4	19.3	39.3

Appendix D: Default Data Tables

Table 4.3 Mobile Trip Rates, Trip Purpose, Trip Type by Land Use

*NOTE: Trip Rates used in the model are taken from ITE's Trip Generation Manual with permission. A sample of the ITE Trip Rates is included in this table along with notes about the data source, land use code, and applicability. The trip rates are part of a larger compilation of data in ITE's Trip Generation Manual, which can be obtained by visiting ITE's Technical Resources webpage: <https://www.ite.org/technical-resources/topics/trip-and-parking-generation/>.

Land Use Type	Land Use Sub Type	Size Metric	Trip Rate*			Trip Rate Notes	Primary %	Diverted %	PassBy %	Trip Type		
			Week day	Saturday	Sunday					C-C %	C-W %	C-NW %
Residential	Single Family Housing	Dwelling Unit	9.44	9.54	8.55	ITE 10th, 210	86	11	3	0	0	0
Residential	Apartments Low Rise	Dwelling Unit				ITE 10th, 220	86	11	3	0	0	0
Residential	Apartments Mid Rise	Dwelling Unit				ITE 10th, 221	86	11	3	0	0	0
Residential	Apartments High Rise	Dwelling Unit				ITE 10th, 222	86	11	3	0	0	0
Residential	Condo/Townhouse	Dwelling Unit				ITE 10th, 220	86	11	3	0	0	0
Residential	Condo/Townhouse High Rise	Dwelling Unit				ITE 10th, 221	86	11	3	0	0	0
Residential	Mobile Home Park	Dwelling Unit				ITE 10th, 240	86	11	3	0	0	0
Residential	Retirement Community	Dwelling Unit				ITE 10th, 255	86	11	3	0	0	0
Residential	Congregate Care (Assisted Living)	Dwelling Unit				ITE 10th, 254	86	11	3	0	0	0
Educational	Day-Care Center	Student	4.09	0.39	0.37	ITE 10th, 565	28	58	14	82.3	12.7	5
Educational	Day-Care Center	1000sqft	47.62	6.22	5.84	ITE 10th, 565	28	58	14	82.3	12.7	5
Educational	Day-Care Center	Employee	21.38	2.61	2.45	ITE 10th, 565	28	58	14	82.3	12.7	5
Educational	Elementary School	Student				ITE 10th, 520	63	25	12	30	65	5
Educational	Elementary School	1000sqft				ITE 10th, 520	63	25	12	30	65	5
Educational	Elementary School	Employee				ITE 10th, 520	63	25	12	30	65	5
Educational	Junior High School	Student				ITE 10th, 522	63	25	12	22.2	72.8	5
Educational	Junior High School	1000sqft				ITE 10th, 522	63	25	12	22.2	72.8	5
Educational	Junior High School	Employee				ITE 10th, 522	63	25	12	22.2	72.8	5
Educational	High School	Student	2.03	0.58	0.25	ITE 10th, 530	75	19	6	17.2	77.8	5
Educational	High School	1000sqft	14.07	3.98	1.71	ITE 10th, 530	75	19	6	17.2	77.8	5
Educational	High School	Employee	22.25	6.02	2.58	ITE 10th, 530	75	19	6	17.2	77.8	5
Educational	Junior College (2yr)	Student				ITE 10th, 540	92	7	1	88.6	6.402	5
Educational	Junior College (2yr)	1000sqft				ITE 10th, 540	92	7	1	88.6	6.402	5
Educational	Junior College (2yr)	Employee				ITE 10th, 540	92	7	1	88.6	6.402	5
Educational	University/College (4yr)	Student				ITE 10th, 550, Saturday rate is from ITE 9th	91	9	0	88.6	6.402	5
Educational	University/College (4yr)	Employee				ITE 10th, 550, Saturday rate is from ITE 9th	91	9	0	88.6	6.402	5
Educational	Library	Employee				ITE 10th, 590	44	44	12	43	52	5
Educational	Library	1000sqft				ITE 10th, 590	44	44	12	43	52	5
Educational	Place of Worship	Seat				ITE 10th, 560	64	25	11	95	0	5
Educational	Place of Worship	1000sqft				ITE 10th, 560	64	25	11	95	0	5
Recreational	City Park	Acre				ITE 10th, 411	66	28	6	48	33	19
Recreational	Golf Course	Acre				ITE 10th, 430, week day rate also used for weekend rates	52	39	9	48	33	19
Recreational	Golf Course	Hole				ITE 10th, 430	52	39	9	48	33	19
Recreational	Recreational Swimming Pool	1000sqft				ITE 10th, 495	52	39	9	48	33	19
Recreational	Racquet Club	1000sqft				ITE 9th, 491	52	39	9	69.5	11.5	19
Recreational	Health Club	1000sqft				ITE 9th, 492	52	39	9	64.1	16.9	19
Recreational	Movie Theater (No Matinee)	Screen				ITE 10th, 444	66	17	17	79.2	1.8	19
Recreational	Movie Theater (No Matinee)	Seat				ITE 10th, 444	66	17	17	79.2	1.8	19
Recreational	Movie Theater (No Matinee)	1000sqft				ITE 10th, 444	66	17	17	79.2	1.8	19
Recreational	Arena	Acre				CalEEMod v 2013.2.2	66	28	6	81	0	19
Recreational	Arena	1000sqft				CalEEMod v 2013.2.2	66	28	6	81	0	19
Recreational	Quality Restaurant	1000sqft	83.84	90.04	71.97	ITE 10th, 931	38	18	44	69	12	19
Recreational	High Turnover (Sit Down Restaurant)	1000sqft				ITE 10th, 932	37	20	43	72.5	8.5	19
Recreational	Fast Food Restaurant with Drive Thru	1000sqft				ITE 10th, 934	29	21	50	78.8	2.2	19
Recreational	Fast Food Restaurant w/o Drive Thru	1000sqft				ITE 10th, 933	51	37	12	79.5	1.5	19
Recreational	Hotel	Room				ITE 10th, 310	58	38	4	61.6	19.4	19
Recreational	Motel	Room				ITE 10th, 320, week day rate also used for weekend rates	58	38	4	62	19	19
Parking	Parking Lot	Space	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Parking Lot	Acre	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Parking Lot	1000sqft	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Unenclosed Parking Structure	Space	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Unenclosed Parking Structure	Acre	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Unenclosed Parking Structure	1000sqft	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Enclosed Parking Structure	Space	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Enclosed Parking Structure	Acre	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Enclosed Parking Structure	1000sqft	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Unenclosed Parking with Elevator	Space	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Unenclosed Parking with Elevator	Acre	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Unenclosed Parking with Elevator	1000sqft	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Enclosed Parking with Elevator	Space	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Enclosed Parking with Elevator	Acre	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Enclosed Parking with Elevator	1000sqft	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Other Non-Asphalt Surfaces	Acre	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Other Asphalt Surfaces	1000sqft	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Other Non-Asphalt Surfaces	1000sqft	0	0	0	No Trip Rates	0	0	0	0	0	0
Parking	Other Asphalt Surfaces	Acre	0	0	0	No Trip Rates	0	0	0	0	0	0
Retail	Free-Standing Discount store	1000sqft	53.12	70.76	60.21	ITE 10th, 815	47.5	35.5	17	68.8	12.2	19
Retail	Free-Standing Discount Superstore	1000sqft				ITE 10th, 813	47.5	35.5	17	67.8	13.2	19
Retail	Discount Club	1000sqft				ITE 10th, 857	45	40	15	64.3	16.7	19
Retail	Regional Shopping Center	1000sqft				ITE 10th, 820	54	35	11	64.7	16.3	19
Retail	Electronic Superstore	1000sqft				ITE 10th, 863	27	33	40	65.5	15.5	19
Retail	Home Improvement Superstore	1000sqft				ITE 10th, 862	32	20	48	57.6	23.4	19
Retail	Strip Mall	1000sqft				ITE 9th, 826	45	40	15	64.4	16.6	19
Retail	Hardware/Paint Store	1000sqft				ITE 10th, 816, week day rate also used for weekend rates	45	29	26	67.4	13.6	19
Retail	Supermarket	1000sqft				ITE 10th, 850	34	30	36	74.5	6.5	19
Retail	Convenience Market (24 hour)	1000sqft				ITE 10th, 851	24	15	61	80.1	0.9	19
Retail	Convenience Market with Gas Pump	1000sqft				ITE 10th, 853, week day rate also used for weekend rates	14	21	65	80.2	0.8	19
Retail	Convenience Market with Gas Pump	Pump				ITE 10th, 853, week day rate also used for weekend rates	14	21	65	80.2	0.8	19

Appendix D: Default Data Tables

Table 4.3 Mobile Trip Rates, Trip Purpose, Trip Type by Land Use

***NOTE:** Trip Rates used in the model are taken from ITE's Trip Generation Manual with permission. A sample of the ITE Trip Rates is included in this table along with notes about the data source, land use code, and applicability. The trip rates are part of a larger compilation of data in ITE's Trip Generation Manual, which can be obtained by visiting ITE's Technical Resources webpage: <https://www.ite.org/technical-resources/topics/trip-and-parking-generation/>

Land Use Type	Land Use Sub Type	Size Metric	Trip Rate*			Trip Rate Notes	Primary %	Diverted %	PassBy %	Trip Type		
			Week day	Saturday	Sunday					C-C %	C-W %	C-NW %
Retail	Automobile Care Center	1000sqft				ITE 10th, 942, Saturday rate used for week day rate	21	51	28	48	33	19
Retail	Gasoline/Service Station	Pump				ITE 10th, 944	14	27	59	79	2	19
Commercial	Bank (with Drive-Through)	1000sqft				ITE 10th, 912	27	26	47	74.4	6.6	19
Commercial	General Office Building	1000sqft				ITE 10th, 710	77	19	4	48	33	19
Commercial	Office Park	1000sqft				ITE 10th, 750	82	15	3	48	33	19
Commercial	Research & Development	1000sqft				ITE 10th, 760	82	15	3	48	33	19
Commercial	Government Office Building	1000sqft				ITE 10th, 730	50	34	16	62	33	5
Commercial	Government (Civic Center)	1000sqft				ITE 10th, 733	50	34	16	20	75	5
Commercial	Pharmacy/Drugstore with Drive Th	1000sqft				ITE 10th, 881	38	13	49	73.5	7.5	19
Commercial	Pharmacy/Drugstore w/o Drive Th	1000sqft				ITE 10th, 880, week day rate also used for weekend rates	41	6	53	73.6	7.4	19
Commercial	Medical Office Building	1000sqft				ITE 10th, 720	60	30	10	51.4	29.6	19
Commercial	Hospital	1000sqft				ITE 10th, 610	73	25	2	16.1	64.9	19
Commercial	Hospital	Bed				ITE 10th, 610	73	25	2	16.1	64.9	19
Industrial	Unrefrigerated Warehouse-No Ra	1000sqft				ITE 10th, 150, week day rate also used for weekend rates	92	5	3	0	59	41
Industrial	Unrefrigerated Warehouse-Rail	1000sqft				ITE 10th, 150, week day rate also used for weekend rates	92	5	3	0	59	41
Industrial	Refrigerated Warehouse-No Rail	1000sqft				ITE 10th, 157, week day rate also used for weekend rates	92	5	3	0	59	41
Industrial	Refrigerated Warehouse-Rail	1000sqft				ITE 10th, 157, week day rate also used for weekend rates	92	5	3	0	59	41
Industrial	General Light Industry	1000sqft				ITE 10th, 110	92	5	3	28	59	13
Industrial	General Heavy Industry	1000sqft				ITE 10th, 140	92	5	3	28	59	13
Industrial	Industrial Park	1000sqft				ITE 10th, 130	79	19	2	28	59	13
Industrial	Manufacturing	1000sqft	3.93	6.42	5.09	ITE 10th, 140	92	5	3	28	59	13

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Great Basin Valleys Air Basin	Annual	2010	351.71	410.12	479.62	598.88	74.54	91.99	101.41	124.88
AB	Great Basin Valleys Air Basin	Annual	2011	351.58	409.65	479.10	599.56	74.30	90.81	101.24	125.01
AB	Great Basin Valleys Air Basin	Annual	2012	351.55	409.23	478.69	600.33	74.12	89.78	101.13	125.19
AB	Great Basin Valleys Air Basin	Annual	2013	351.50	408.84	478.36	601.12	73.86	88.90	101.03	125.40
AB	Great Basin Valleys Air Basin	Annual	2014	351.45	408.49	478.12	601.90	73.59	88.09	100.88	125.62
AB	Great Basin Valleys Air Basin	Annual	2015	351.50	408.21	477.92	602.74	73.49	87.37	100.88	125.86
AB	Great Basin Valleys Air Basin	Annual	2016	351.62	407.99	477.76	603.56	73.49	86.82	100.85	126.11
AB	Great Basin Valleys Air Basin	Annual	2017	351.64	407.78	477.63	604.31	73.40	86.29	100.83	126.37
AB	Great Basin Valleys Air Basin	Annual	2018	351.66	407.60	477.52	604.96	73.33	85.85	100.80	126.61
AB	Great Basin Valleys Air Basin	Annual	2019	351.69	407.52	477.42	605.53	73.29	85.59	100.75	126.84
AB	Great Basin Valleys Air Basin	Annual	2020	351.72	407.45	477.34	606.03	73.36	85.50	100.79	127.06
AB	Great Basin Valleys Air Basin	Annual	2021	351.66	407.35	477.26	606.36	73.36	85.50	100.84	127.21
AB	Great Basin Valleys Air Basin	Annual	2022	351.57	407.28	477.17	606.67	73.35	85.52	100.88	127.36
AB	Great Basin Valleys Air Basin	Annual	2023	351.48	407.18	477.10	606.89	73.33	85.53	100.90	127.53
AB	Great Basin Valleys Air Basin	Annual	2024	351.41	407.09	477.03	607.04	73.32	85.55	100.92	127.69
AB	Great Basin Valleys Air Basin	Annual	2025	351.37	407.16	477.00	607.21	73.31	85.62	100.95	127.84
AB	Great Basin Valleys Air Basin	Annual	2026	351.39	407.29	476.94	607.42	73.33	85.71	100.97	127.99
AB	Great Basin Valleys Air Basin	Annual	2027	351.40	407.43	476.89	607.63	73.34	85.79	100.99	128.14
AB	Great Basin Valleys Air Basin	Annual	2028	351.40	407.56	476.84	607.84	73.35	85.87	101.00	128.27
AB	Great Basin Valleys Air Basin	Annual	2029	351.39	407.69	476.77	608.06	73.36	85.94	101.00	128.39
AB	Great Basin Valleys Air Basin	Annual	2030	351.38	407.82	476.71	608.27	73.36	86.00	101.00	128.51
AB	Great Basin Valleys Air Basin	Annual	2031	351.38	407.96	476.68	608.50	73.36	86.07	101.01	128.63
AB	Great Basin Valleys Air Basin	Annual	2032	351.38	408.09	476.65	608.73	73.37	86.13	101.01	128.74
AB	Great Basin Valleys Air Basin	Annual	2033	351.38	408.21	476.62	608.94	73.37	86.18	101.01	128.84
AB	Great Basin Valleys Air Basin	Annual	2034	351.37	408.32	476.60	609.12	73.38	86.23	101.02	128.94
AB	Great Basin Valleys Air Basin	Annual	2035	351.37	408.41	476.58	609.28	73.38	86.28	101.02	129.02
AB	Great Basin Valleys Air Basin	Summer	2010	368.80	426.31	499.33	622.32	74.54	91.99	101.41	124.88
AB	Great Basin Valleys Air Basin	Summer	2011	368.81	426.47	498.98	623.07	74.30	90.81	101.24	125.01
AB	Great Basin Valleys Air Basin	Summer	2012	368.86	426.56	498.74	623.95	74.12	89.78	101.13	125.19
AB	Great Basin Valleys Air Basin	Summer	2013	368.89	426.59	498.57	624.87	73.86	88.90	101.03	125.40
AB	Great Basin Valleys Air Basin	Summer	2014	368.92	426.59	498.50	625.78	73.59	88.09	100.88	125.62
AB	Great Basin Valleys Air Basin	Summer	2015	369.01	426.63	498.39	626.79	73.49	87.37	100.88	125.86
AB	Great Basin Valleys Air Basin	Summer	2016	369.15	426.65	498.34	627.79	73.49	86.82	100.85	126.11
AB	Great Basin Valleys Air Basin	Summer	2017	369.19	426.65	498.29	628.71	73.40	86.29	100.83	126.37
AB	Great Basin Valleys Air Basin	Summer	2018	369.21	426.63	498.22	629.47	73.33	85.85	100.80	126.61
AB	Great Basin Valleys Air Basin	Summer	2019	369.25	426.71	498.16	630.15	73.29	85.59	100.75	126.84
AB	Great Basin Valleys Air Basin	Summer	2020	369.30	426.76	498.11	630.75	73.36	85.50	100.79	127.06
AB	Great Basin Valleys Air Basin	Summer	2021	369.22	426.73	498.07	631.17	73.36	85.50	100.84	127.21
AB	Great Basin Valleys Air Basin	Summer	2022	369.14	426.72	498.03	631.56	73.35	85.52	100.88	127.36
AB	Great Basin Valleys Air Basin	Summer	2023	369.04	426.67	498.01	631.85	73.33	85.53	100.90	127.53
AB	Great Basin Valleys Air Basin	Summer	2024	368.98	426.64	498.01	632.03	73.32	85.55	100.92	127.69
AB	Great Basin Valleys Air Basin	Summer	2025	368.96	426.73	498.02	632.24	73.31	85.62	100.95	127.84
AB	Great Basin Valleys Air Basin	Summer	2026	368.99	426.89	497.97	632.46	73.33	85.71	100.97	127.99
AB	Great Basin Valleys Air Basin	Summer	2027	369.03	427.08	497.94	632.69	73.34	85.79	100.99	128.14
AB	Great Basin Valleys Air Basin	Summer	2028	369.05	427.25	497.90	632.94	73.35	85.87	101.00	128.27
AB	Great Basin Valleys Air Basin	Summer	2029	369.06	427.42	497.85	633.19	73.36	85.94	101.00	128.39
AB	Great Basin Valleys Air Basin	Summer	2030	369.07	427.57	497.80	633.43	73.36	86.00	101.00	128.51
AB	Great Basin Valleys Air Basin	Summer	2031	369.06	427.77	497.77	633.69	73.36	86.07	101.01	128.63
AB	Great Basin Valleys Air Basin	Summer	2032	369.06	427.93	497.74	633.93	73.37	86.13	101.01	128.74
AB	Great Basin Valleys Air Basin	Summer	2033	369.06	428.08	497.72	634.18	73.37	86.18	101.01	128.84
AB	Great Basin Valleys Air Basin	Summer	2034	369.05	428.21	497.70	634.38	73.38	86.23	101.02	128.94
AB	Great Basin Valleys Air Basin	Summer	2035	369.04	428.32	497.68	634.56	73.38	86.28	101.02	129.02
AB	Great Basin Valleys Air Basin	Winter	2010	367.72	425.30	498.12	620.89	74.54	91.99	101.41	124.88
AB	Great Basin Valleys Air Basin	Winter	2011	367.73	425.41	497.76	621.64	74.30	90.81	101.24	125.01

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Great Basin Valleys Air Basin	Winter	2012	367.77	425.48	497.51	622.51	74.12	89.78	101.13	125.19
AB	Great Basin Valleys Air Basin	Winter	2013	367.80	425.47	497.33	623.43	73.86	88.90	101.03	125.40
AB	Great Basin Valleys Air Basin	Winter	2014	367.82	425.45	497.25	624.33	73.59	88.09	100.88	125.62
AB	Great Basin Valleys Air Basin	Winter	2015	367.92	425.48	497.13	625.32	73.49	87.37	100.88	125.86
AB	Great Basin Valleys Air Basin	Winter	2016	368.05	425.48	497.08	626.32	73.49	86.82	100.85	126.11
AB	Great Basin Valleys Air Basin	Winter	2017	368.09	425.46	497.03	627.23	73.40	86.29	100.83	126.37
AB	Great Basin Valleys Air Basin	Winter	2018	368.11	425.44	496.95	627.98	73.33	85.85	100.80	126.61
AB	Great Basin Valleys Air Basin	Winter	2019	368.14	425.50	496.89	628.66	73.29	85.59	100.75	126.84
AB	Great Basin Valleys Air Basin	Winter	2020	368.19	425.55	496.84	629.25	73.36	85.50	100.79	127.06
AB	Great Basin Valleys Air Basin	Winter	2021	368.12	425.51	496.80	629.66	73.36	85.50	100.84	127.21
AB	Great Basin Valleys Air Basin	Winter	2022	368.04	425.50	496.75	630.05	73.35	85.52	100.88	127.36
AB	Great Basin Valleys Air Basin	Winter	2023	367.94	425.45	496.73	630.33	73.33	85.53	100.90	127.53
AB	Great Basin Valleys Air Basin	Winter	2024	367.88	425.41	496.72	630.51	73.32	85.55	100.92	127.69
AB	Great Basin Valleys Air Basin	Winter	2025	367.85	425.50	496.73	630.71	73.31	85.62	100.95	127.84
AB	Great Basin Valleys Air Basin	Winter	2026	367.89	425.66	496.68	630.94	73.33	85.71	100.97	127.99
AB	Great Basin Valleys Air Basin	Winter	2027	367.93	425.85	496.65	631.16	73.34	85.79	100.99	128.14
AB	Great Basin Valleys Air Basin	Winter	2028	367.95	426.02	496.61	631.41	73.35	85.87	101.00	128.27
AB	Great Basin Valleys Air Basin	Winter	2029	367.95	426.19	496.56	631.66	73.36	85.94	101.00	128.39
AB	Great Basin Valleys Air Basin	Winter	2030	367.96	426.33	496.51	631.90	73.36	86.00	101.00	128.51
AB	Great Basin Valleys Air Basin	Winter	2031	367.95	426.53	496.47	632.15	73.36	86.07	101.01	128.63
AB	Great Basin Valleys Air Basin	Winter	2032	367.95	426.69	496.45	632.40	73.37	86.13	101.01	128.74
AB	Great Basin Valleys Air Basin	Winter	2033	367.95	426.84	496.42	632.64	73.37	86.18	101.01	128.84
AB	Great Basin Valleys Air Basin	Winter	2034	367.94	426.96	496.41	632.84	73.38	86.23	101.02	128.94
AB	Great Basin Valleys Air Basin	Winter	2035	367.94	427.07	496.38	633.02	73.38	86.28	101.02	129.02
AB	Lake County Air Basin	Annual	2010	342.07	393.50	467.77	584.22	74.77	89.34	101.91	124.46
AB	Lake County Air Basin	Annual	2011	342.02	394.05	467.30	584.79	74.52	88.47	101.71	124.54
AB	Lake County Air Basin	Annual	2012	342.06	394.51	466.93	585.54	74.36	87.81	101.56	124.69
AB	Lake County Air Basin	Annual	2013	342.12	394.89	466.63	586.41	74.20	87.25	101.40	124.90
AB	Lake County Air Basin	Annual	2014	342.14	395.21	466.41	587.25	73.98	86.77	101.22	125.12
AB	Lake County Air Basin	Annual	2015	342.23	395.51	466.24	588.17	73.90	86.33	101.09	125.37
AB	Lake County Air Basin	Annual	2016	342.33	395.78	466.10	589.06	73.88	85.99	101.00	125.66
AB	Lake County Air Basin	Annual	2017	342.36	396.00	465.97	589.89	73.79	85.60	100.88	125.95
AB	Lake County Air Basin	Annual	2018	342.39	396.17	465.87	590.62	73.73	85.27	100.83	126.22
AB	Lake County Air Basin	Annual	2019	342.41	396.35	465.79	591.26	73.69	85.13	100.79	126.48
AB	Lake County Air Basin	Annual	2020	342.44	396.52	465.72	591.82	73.77	85.14	100.79	126.73
AB	Lake County Air Basin	Annual	2021	342.39	396.64	465.65	592.21	73.79	85.21	100.84	126.90
AB	Lake County Air Basin	Annual	2022	342.31	396.75	465.57	592.55	73.78	85.27	100.85	127.07
AB	Lake County Air Basin	Annual	2023	342.19	396.83	465.51	592.77	73.76	85.32	100.87	127.26
AB	Lake County Air Basin	Annual	2024	342.07	396.89	465.44	592.97	73.71	85.36	100.88	127.45
AB	Lake County Air Basin	Annual	2025	342.01	396.99	465.40	593.14	73.71	85.45	100.91	127.61
AB	Lake County Air Basin	Annual	2026	342.02	397.10	465.36	593.32	73.73	85.55	100.93	127.78
AB	Lake County Air Basin	Annual	2027	342.03	397.21	465.31	593.53	73.74	85.64	100.94	127.94
AB	Lake County Air Basin	Annual	2028	342.03	397.32	465.27	593.73	73.75	85.72	100.95	128.09
AB	Lake County Air Basin	Annual	2029	342.02	397.43	465.24	593.93	73.75	85.80	100.96	128.22
AB	Lake County Air Basin	Annual	2030	342.00	397.54	465.21	594.14	73.75	85.88	100.95	128.35
AB	Lake County Air Basin	Annual	2031	342.00	397.66	465.19	594.38	73.76	85.96	100.95	128.48
AB	Lake County Air Basin	Annual	2032	341.99	397.76	465.18	594.62	73.76	86.03	100.96	128.61
AB	Lake County Air Basin	Annual	2033	341.99	397.84	465.18	594.84	73.77	86.09	100.96	128.72
AB	Lake County Air Basin	Annual	2034	341.98	397.92	465.17	595.03	73.77	86.15	100.97	128.82
AB	Lake County Air Basin	Annual	2035	341.97	397.97	465.16	595.21	73.78	86.20	100.97	128.92
AB	Lake County Air Basin	Summer	2010	365.54	417.38	498.77	621.97	74.77	89.34	101.91	124.46
AB	Lake County Air Basin	Summer	2011	365.78	418.72	498.60	622.61	74.52	88.47	101.71	124.54
AB	Lake County Air Basin	Summer	2012	366.03	419.77	498.49	623.54	74.36	87.81	101.56	124.69
AB	Lake County Air Basin	Summer	2013	366.25	420.60	498.41	624.68	74.20	87.25	101.40	124.90

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Lake County Air Basin	Summer	2014	366.39	421.26	498.37	625.78	73.98	86.77	101.22	125.12
AB	Lake County Air Basin	Summer	2015	366.55	421.85	498.36	627.02	73.90	86.33	101.09	125.37
AB	Lake County Air Basin	Summer	2016	366.69	422.33	498.33	628.23	73.88	85.99	101.00	125.66
AB	Lake County Air Basin	Summer	2017	366.75	422.72	498.28	629.33	73.79	85.60	100.88	125.95
AB	Lake County Air Basin	Summer	2018	366.77	423.03	498.21	630.31	73.73	85.27	100.83	126.22
AB	Lake County Air Basin	Summer	2019	366.79	423.31	498.14	631.16	73.69	85.13	100.79	126.48
AB	Lake County Air Basin	Summer	2020	366.81	423.55	498.08	631.89	73.77	85.14	100.79	126.73
AB	Lake County Air Basin	Summer	2021	366.76	423.74	498.00	632.43	73.79	85.21	100.84	126.90
AB	Lake County Air Basin	Summer	2022	366.67	423.91	497.93	632.88	73.78	85.27	100.85	127.07
AB	Lake County Air Basin	Summer	2023	366.57	424.04	497.87	633.19	73.76	85.32	100.87	127.26
AB	Lake County Air Basin	Summer	2024	366.46	424.16	497.81	633.47	73.71	85.36	100.88	127.45
AB	Lake County Air Basin	Summer	2025	366.41	424.28	497.76	633.69	73.71	85.45	100.91	127.61
AB	Lake County Air Basin	Summer	2026	366.43	424.42	497.70	633.89	73.73	85.55	100.93	127.78
AB	Lake County Air Basin	Summer	2027	366.46	424.56	497.65	634.10	73.74	85.64	100.94	127.94
AB	Lake County Air Basin	Summer	2028	366.47	424.70	497.62	634.32	73.75	85.72	100.95	128.09
AB	Lake County Air Basin	Summer	2029	366.48	424.86	497.59	634.55	73.75	85.80	100.96	128.22
AB	Lake County Air Basin	Summer	2030	366.48	425.00	497.56	634.80	73.75	85.88	100.95	128.35
AB	Lake County Air Basin	Summer	2031	366.48	425.18	497.58	635.06	73.76	85.96	100.95	128.48
AB	Lake County Air Basin	Summer	2032	366.47	425.33	497.59	635.34	73.76	86.03	100.96	128.61
AB	Lake County Air Basin	Summer	2033	366.46	425.44	497.60	635.60	73.77	86.09	100.96	128.72
AB	Lake County Air Basin	Summer	2034	366.45	425.54	497.60	635.84	73.77	86.15	100.97	128.82
AB	Lake County Air Basin	Summer	2035	366.44	425.60	497.60	636.06	73.78	86.20	100.97	128.92
AB	Lake County Air Basin	Winter	2010	355.28	406.94	485.21	605.47	74.77	89.34	101.91	124.46
AB	Lake County Air Basin	Winter	2011	355.39	407.93	484.91	606.07	74.52	88.47	101.71	124.54
AB	Lake County Air Basin	Winter	2012	355.55	408.73	484.69	606.93	74.36	87.81	101.56	124.69
AB	Lake County Air Basin	Winter	2013	355.70	409.36	484.52	607.95	74.20	87.25	101.40	124.90
AB	Lake County Air Basin	Winter	2014	355.79	409.87	484.39	608.93	73.98	86.77	101.22	125.12
AB	Lake County Air Basin	Winter	2015	355.91	410.33	484.31	610.03	73.90	86.33	101.09	125.37
AB	Lake County Air Basin	Winter	2016	356.04	410.72	484.24	611.10	73.88	85.99	101.00	125.66
AB	Lake County Air Basin	Winter	2017	356.08	411.04	484.15	612.08	73.79	85.60	100.88	125.95
AB	Lake County Air Basin	Winter	2018	356.11	411.29	484.07	612.96	73.73	85.27	100.83	126.22
AB	Lake County Air Basin	Winter	2019	356.13	411.52	484.00	613.71	73.69	85.13	100.79	126.48
AB	Lake County Air Basin	Winter	2020	356.15	411.73	483.93	614.36	73.77	85.14	100.79	126.73
AB	Lake County Air Basin	Winter	2021	356.11	411.89	483.85	614.84	73.79	85.21	100.84	126.90
AB	Lake County Air Basin	Winter	2022	356.02	412.03	483.78	615.25	73.78	85.27	100.85	127.07
AB	Lake County Air Basin	Winter	2023	355.91	412.15	483.72	615.52	73.76	85.32	100.87	127.26
AB	Lake County Air Basin	Winter	2024	355.79	412.24	483.66	615.76	73.71	85.36	100.88	127.45
AB	Lake County Air Basin	Winter	2025	355.74	412.35	483.61	615.96	73.71	85.45	100.91	127.61
AB	Lake County Air Basin	Winter	2026	355.76	412.47	483.56	616.15	73.73	85.55	100.93	127.78
AB	Lake County Air Basin	Winter	2027	355.78	412.60	483.51	616.36	73.74	85.64	100.94	127.94
AB	Lake County Air Basin	Winter	2028	355.78	412.73	483.47	616.58	73.75	85.72	100.95	128.09
AB	Lake County Air Basin	Winter	2029	355.78	412.87	483.44	616.79	73.75	85.80	100.96	128.22
AB	Lake County Air Basin	Winter	2030	355.78	412.99	483.41	617.02	73.75	85.88	100.95	128.35
AB	Lake County Air Basin	Winter	2031	355.77	413.15	483.42	617.27	73.76	85.96	100.95	128.48
AB	Lake County Air Basin	Winter	2032	355.77	413.27	483.42	617.53	73.76	86.03	100.96	128.61
AB	Lake County Air Basin	Winter	2033	355.76	413.37	483.42	617.77	73.77	86.09	100.96	128.72
AB	Lake County Air Basin	Winter	2034	355.75	413.46	483.42	618.00	73.77	86.15	100.97	128.82
AB	Lake County Air Basin	Winter	2035	355.74	413.52	483.42	618.20	73.78	86.20	100.97	128.92
AB	Lake Tahoe Air Basin	Annual	2010	356.47	412.59	488.71	604.93	74.34	87.24	99.87	123.01
AB	Lake Tahoe Air Basin	Annual	2011	356.51	412.59	488.19	605.81	74.16	86.67	99.91	123.23
AB	Lake Tahoe Air Basin	Annual	2012	356.56	412.72	487.78	606.86	73.99	86.30	99.99	123.52
AB	Lake Tahoe Air Basin	Annual	2013	356.68	412.85	487.47	608.00	73.92	86.00	100.07	123.86
AB	Lake Tahoe Air Basin	Annual	2014	356.72	412.95	487.22	609.08	73.71	85.68	100.13	124.20
AB	Lake Tahoe Air Basin	Annual	2015	356.81	413.11	487.02	610.25	73.64	85.47	100.21	124.57

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Lake Tahoe Air Basin	Annual	2016	356.94	413.27	486.89	611.36	73.65	85.26	100.29	124.95
AB	Lake Tahoe Air Basin	Annual	2017	356.99	413.40	486.78	612.39	73.62	85.07	100.35	125.32
AB	Lake Tahoe Air Basin	Annual	2018	357.02	413.53	486.70	613.30	73.52	84.96	100.42	125.67
AB	Lake Tahoe Air Basin	Annual	2019	357.02	413.71	486.65	614.10	73.44	84.95	100.50	126.01
AB	Lake Tahoe Air Basin	Annual	2020	357.04	413.87	486.61	614.78	73.51	85.01	100.60	126.32
AB	Lake Tahoe Air Basin	Annual	2021	356.98	413.98	486.59	615.36	73.53	85.12	100.68	126.59
AB	Lake Tahoe Air Basin	Annual	2022	356.93	414.08	486.56	615.86	73.53	85.21	100.75	126.83
AB	Lake Tahoe Air Basin	Annual	2023	356.85	414.11	486.52	616.25	73.53	85.29	100.80	127.07
AB	Lake Tahoe Air Basin	Annual	2024	356.72	414.14	486.45	616.56	73.48	85.36	100.85	127.28
AB	Lake Tahoe Air Basin	Annual	2025	356.68	414.26	486.40	616.85	73.48	85.46	100.89	127.48
AB	Lake Tahoe Air Basin	Annual	2026	356.67	414.44	486.37	617.11	73.50	85.57	100.93	127.67
AB	Lake Tahoe Air Basin	Annual	2027	356.66	414.59	486.34	617.37	73.52	85.66	100.95	127.84
AB	Lake Tahoe Air Basin	Annual	2028	356.66	414.75	486.32	617.64	73.52	85.75	100.97	128.00
AB	Lake Tahoe Air Basin	Annual	2029	356.64	414.90	486.29	617.91	73.53	85.84	100.98	128.15
AB	Lake Tahoe Air Basin	Annual	2030	356.63	415.05	486.24	618.17	73.53	85.92	100.99	128.30
AB	Lake Tahoe Air Basin	Annual	2031	356.65	415.20	486.20	618.44	73.54	85.99	100.99	128.44
AB	Lake Tahoe Air Basin	Annual	2032	356.65	415.33	486.17	618.72	73.54	86.06	101.00	128.57
AB	Lake Tahoe Air Basin	Annual	2033	356.66	415.45	486.15	618.96	73.55	86.13	101.00	128.69
AB	Lake Tahoe Air Basin	Annual	2034	356.66	415.57	486.12	619.18	73.55	86.19	101.01	128.81
AB	Lake Tahoe Air Basin	Annual	2035	356.66	415.65	486.10	619.37	73.56	86.24	101.01	128.91
AB	Lake Tahoe Air Basin	Summer	2010	355.60	411.74	487.57	603.46	74.34	87.24	99.87	123.01
AB	Lake Tahoe Air Basin	Summer	2011	355.64	411.71	487.04	604.33	74.16	86.67	99.91	123.23
AB	Lake Tahoe Air Basin	Summer	2012	355.68	411.82	486.63	605.37	73.99	86.30	99.99	123.52
AB	Lake Tahoe Air Basin	Summer	2013	355.79	411.94	486.31	606.50	73.92	86.00	100.07	123.86
AB	Lake Tahoe Air Basin	Summer	2014	355.83	412.02	486.05	607.58	73.71	85.68	100.13	124.20
AB	Lake Tahoe Air Basin	Summer	2015	355.92	412.17	485.85	608.73	73.64	85.47	100.21	124.57
AB	Lake Tahoe Air Basin	Summer	2016	356.05	412.33	485.71	609.83	73.65	85.26	100.29	124.95
AB	Lake Tahoe Air Basin	Summer	2017	356.10	412.44	485.60	610.85	73.62	85.07	100.35	125.32
AB	Lake Tahoe Air Basin	Summer	2018	356.13	412.57	485.52	611.75	73.52	84.96	100.42	125.67
AB	Lake Tahoe Air Basin	Summer	2019	356.13	412.74	485.46	612.55	73.44	84.95	100.50	126.01
AB	Lake Tahoe Air Basin	Summer	2020	356.15	412.89	485.43	613.23	73.51	85.01	100.60	126.32
AB	Lake Tahoe Air Basin	Summer	2021	356.09	413.00	485.41	613.80	73.53	85.12	100.68	126.59
AB	Lake Tahoe Air Basin	Summer	2022	356.03	413.09	485.38	614.30	73.53	85.21	100.75	126.83
AB	Lake Tahoe Air Basin	Summer	2023	355.96	413.13	485.34	614.69	73.53	85.29	100.80	127.07
AB	Lake Tahoe Air Basin	Summer	2024	355.83	413.15	485.27	615.00	73.48	85.36	100.85	127.28
AB	Lake Tahoe Air Basin	Summer	2025	355.78	413.27	485.22	615.29	73.48	85.46	100.89	127.48
AB	Lake Tahoe Air Basin	Summer	2026	355.77	413.44	485.19	615.55	73.50	85.57	100.93	127.67
AB	Lake Tahoe Air Basin	Summer	2027	355.77	413.59	485.16	615.81	73.52	85.66	100.95	127.84
AB	Lake Tahoe Air Basin	Summer	2028	355.76	413.76	485.14	616.07	73.52	85.75	100.97	128.00
AB	Lake Tahoe Air Basin	Summer	2029	355.74	413.90	485.10	616.34	73.53	85.84	100.98	128.15
AB	Lake Tahoe Air Basin	Summer	2030	355.74	414.05	485.06	616.61	73.53	85.92	100.99	128.30
AB	Lake Tahoe Air Basin	Summer	2031	355.75	414.20	485.02	616.87	73.54	85.99	100.99	128.44
AB	Lake Tahoe Air Basin	Summer	2032	355.76	414.33	484.99	617.14	73.54	86.06	101.00	128.57
AB	Lake Tahoe Air Basin	Summer	2033	355.76	414.45	484.96	617.39	73.55	86.13	101.00	128.69
AB	Lake Tahoe Air Basin	Summer	2034	355.76	414.56	484.94	617.61	73.55	86.19	101.01	128.81
AB	Lake Tahoe Air Basin	Summer	2035	355.76	414.64	484.92	617.79	73.56	86.24	101.01	128.91
AB	Lake Tahoe Air Basin	Winter	2010	355.55	411.69	487.51	603.37	74.34	87.24	99.87	123.01
AB	Lake Tahoe Air Basin	Winter	2011	355.59	411.66	486.98	604.24	74.16	86.67	99.91	123.23
AB	Lake Tahoe Air Basin	Winter	2012	355.64	411.77	486.56	605.28	73.99	86.30	99.99	123.52
AB	Lake Tahoe Air Basin	Winter	2013	355.74	411.89	486.25	606.41	73.92	86.00	100.07	123.86
AB	Lake Tahoe Air Basin	Winter	2014	355.78	411.97	485.98	607.48	73.71	85.68	100.13	124.20
AB	Lake Tahoe Air Basin	Winter	2015	355.87	412.11	485.78	608.63	73.64	85.47	100.21	124.57
AB	Lake Tahoe Air Basin	Winter	2016	356.00	412.27	485.65	609.74	73.65	85.26	100.29	124.95
AB	Lake Tahoe Air Basin	Winter	2017	356.05	412.39	485.53	610.76	73.62	85.07	100.35	125.32

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Lake Tahoe Air Basin	Winter	2018	356.08	412.52	485.45	611.66	73.52	84.96	100.42	125.67
AB	Lake Tahoe Air Basin	Winter	2019	356.08	412.69	485.40	612.46	73.44	84.95	100.50	126.01
AB	Lake Tahoe Air Basin	Winter	2020	356.10	412.84	485.37	613.13	73.51	85.01	100.60	126.32
AB	Lake Tahoe Air Basin	Winter	2021	356.04	412.95	485.35	613.70	73.53	85.12	100.68	126.59
AB	Lake Tahoe Air Basin	Winter	2022	355.98	413.04	485.31	614.20	73.53	85.21	100.75	126.83
AB	Lake Tahoe Air Basin	Winter	2023	355.91	413.07	485.28	614.59	73.53	85.29	100.80	127.07
AB	Lake Tahoe Air Basin	Winter	2024	355.78	413.10	485.21	614.90	73.48	85.36	100.85	127.28
AB	Lake Tahoe Air Basin	Winter	2025	355.73	413.22	485.16	615.19	73.48	85.46	100.89	127.48
AB	Lake Tahoe Air Basin	Winter	2026	355.72	413.39	485.13	615.45	73.50	85.57	100.93	127.67
AB	Lake Tahoe Air Basin	Winter	2027	355.72	413.54	485.10	615.71	73.52	85.66	100.95	127.84
AB	Lake Tahoe Air Basin	Winter	2028	355.71	413.70	485.07	615.98	73.52	85.75	100.97	128.00
AB	Lake Tahoe Air Basin	Winter	2029	355.70	413.85	485.04	616.24	73.53	85.84	100.98	128.15
AB	Lake Tahoe Air Basin	Winter	2030	355.69	414.00	484.99	616.51	73.53	85.92	100.99	128.30
AB	Lake Tahoe Air Basin	Winter	2031	355.70	414.15	484.96	616.78	73.54	85.99	100.99	128.44
AB	Lake Tahoe Air Basin	Winter	2032	355.71	414.28	484.93	617.05	73.54	86.06	101.00	128.57
AB	Lake Tahoe Air Basin	Winter	2033	355.71	414.39	484.90	617.29	73.55	86.13	101.00	128.69
AB	Lake Tahoe Air Basin	Winter	2034	355.71	414.51	484.88	617.51	73.55	86.19	101.01	128.81
AB	Lake Tahoe Air Basin	Winter	2035	355.71	414.59	484.85	617.70	73.56	86.24	101.01	128.91
AB	Mojave Desert Air Basin	Annual	2010	343.11	394.68	468.99	590.86	73.72	86.74	100.30	125.32
AB	Mojave Desert Air Basin	Annual	2011	343.64	395.54	469.03	592.03	73.66	86.21	100.29	125.53
AB	Mojave Desert Air Basin	Annual	2012	343.83	396.10	468.85	592.82	73.64	85.86	100.31	125.76
AB	Mojave Desert Air Basin	Annual	2013	343.61	395.96	468.10	592.75	73.63	85.55	100.34	126.01
AB	Mojave Desert Air Basin	Annual	2014	343.79	396.35	468.03	593.54	73.61	85.26	100.36	126.25
AB	Mojave Desert Air Basin	Annual	2015	343.46	395.74	466.94	593.04	73.61	85.08	100.41	126.51
AB	Mojave Desert Air Basin	Annual	2016	343.59	396.07	466.87	593.71	73.64	84.97	100.46	126.76
AB	Mojave Desert Air Basin	Annual	2017	343.70	396.36	466.83	594.35	73.64	84.82	100.48	127.01
AB	Mojave Desert Air Basin	Annual	2018	343.78	396.61	466.78	594.88	73.65	84.74	100.50	127.24
AB	Mojave Desert Air Basin	Annual	2019	343.84	396.80	466.60	595.24	73.67	84.82	100.55	127.46
AB	Mojave Desert Air Basin	Annual	2020	343.89	397.05	466.55	595.62	73.75	84.94	100.63	127.66
AB	Mojave Desert Air Basin	Annual	2021	344.44	397.74	467.03	596.67	73.81	85.09	100.70	127.82
AB	Mojave Desert Air Basin	Annual	2022	344.45	397.97	467.01	596.93	73.85	85.23	100.76	127.94
AB	Mojave Desert Air Basin	Annual	2023	344.44	398.17	466.98	597.13	73.88	85.35	100.81	128.10
AB	Mojave Desert Air Basin	Annual	2024	344.17	397.99	466.53	596.83	73.89	85.45	100.85	128.24
AB	Mojave Desert Air Basin	Annual	2025	344.18	398.15	466.52	597.01	73.91	85.55	100.89	128.37
AB	Mojave Desert Air Basin	Annual	2026	344.19	398.32	466.50	597.17	73.93	85.65	100.91	128.50
AB	Mojave Desert Air Basin	Annual	2027	344.20	398.48	466.48	597.33	73.94	85.73	100.93	128.62
AB	Mojave Desert Air Basin	Annual	2028	344.20	398.63	466.46	597.49	73.95	85.81	100.95	128.72
AB	Mojave Desert Air Basin	Annual	2029	344.20	398.78	466.44	597.64	73.96	85.88	100.96	128.81
AB	Mojave Desert Air Basin	Annual	2030	344.19	398.92	466.41	597.78	73.96	85.94	100.96	128.90
AB	Mojave Desert Air Basin	Annual	2031	345.29	400.17	467.56	599.64	73.96	86.01	100.97	128.98
AB	Mojave Desert Air Basin	Annual	2032	345.26	400.28	467.53	599.70	73.97	86.07	100.98	129.06
AB	Mojave Desert Air Basin	Annual	2033	345.23	400.38	467.50	599.76	73.97	86.12	100.98	129.12
AB	Mojave Desert Air Basin	Annual	2034	345.20	400.47	467.47	599.81	73.97	86.16	100.99	129.19
AB	Mojave Desert Air Basin	Annual	2035	345.17	400.54	467.45	599.85	73.98	86.20	100.99	129.24
AB	Mojave Desert Air Basin	Summer	2010	378.64	430.09	514.82	649.00	73.72	86.74	100.30	125.32
AB	Mojave Desert Air Basin	Summer	2011	379.34	431.77	515.20	650.27	73.66	86.21	100.29	125.53
AB	Mojave Desert Air Basin	Summer	2012	379.64	432.95	515.24	651.14	73.64	85.86	100.31	125.76
AB	Mojave Desert Air Basin	Summer	2013	379.46	433.16	514.62	651.13	73.63	85.55	100.34	126.01
AB	Mojave Desert Air Basin	Summer	2014	379.68	433.88	514.72	652.08	73.61	85.26	100.36	126.25
AB	Mojave Desert Air Basin	Summer	2015	379.34	433.42	513.70	651.66	73.61	85.08	100.41	126.51
AB	Mojave Desert Air Basin	Summer	2016	379.52	433.92	513.75	652.50	73.64	84.97	100.46	126.76
AB	Mojave Desert Air Basin	Summer	2017	379.64	434.35	513.78	653.28	73.64	84.82	100.48	127.01
AB	Mojave Desert Air Basin	Summer	2018	379.71	434.69	513.76	653.91	73.65	84.74	100.50	127.24
AB	Mojave Desert Air Basin	Summer	2019	379.77	434.97	513.59	654.37	73.67	84.82	100.55	127.46

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Mojave Desert Air Basin	Summer	2020	379.81	435.29	513.53	654.85	73.75	84.94	100.63	127.66
AB	Mojave Desert Air Basin	Summer	2021	380.43	436.16	514.08	656.10	73.81	85.09	100.70	127.82
AB	Mojave Desert Air Basin	Summer	2022	380.46	436.52	514.06	656.46	73.85	85.23	100.76	127.94
AB	Mojave Desert Air Basin	Summer	2023	380.45	436.83	514.04	656.72	73.88	85.35	100.81	128.10
AB	Mojave Desert Air Basin	Summer	2024	380.12	436.68	513.52	656.37	73.89	85.45	100.85	128.24
AB	Mojave Desert Air Basin	Summer	2025	380.13	436.95	513.52	656.58	73.91	85.55	100.89	128.37
AB	Mojave Desert Air Basin	Summer	2026	380.14	437.20	513.50	656.78	73.93	85.65	100.91	128.50
AB	Mojave Desert Air Basin	Summer	2027	380.15	437.43	513.49	656.96	73.94	85.73	100.93	128.62
AB	Mojave Desert Air Basin	Summer	2028	380.15	437.66	513.48	657.14	73.95	85.81	100.95	128.72
AB	Mojave Desert Air Basin	Summer	2029	380.14	437.88	513.47	657.31	73.96	85.88	100.96	128.81
AB	Mojave Desert Air Basin	Summer	2030	380.14	438.08	513.46	657.48	73.96	85.94	100.96	128.90
AB	Mojave Desert Air Basin	Summer	2031	381.35	439.55	514.76	659.57	73.96	86.01	100.97	128.98
AB	Mojave Desert Air Basin	Summer	2032	381.29	439.73	514.74	659.65	73.97	86.07	100.98	129.06
AB	Mojave Desert Air Basin	Summer	2033	381.25	439.88	514.72	659.74	73.97	86.12	100.98	129.12
AB	Mojave Desert Air Basin	Summer	2034	381.20	440.01	514.71	659.82	73.97	86.16	100.99	129.19
AB	Mojave Desert Air Basin	Summer	2035	381.17	440.11	514.69	659.90	73.98	86.20	100.99	129.24
AB	Mojave Desert Air Basin	Winter	2010	332.64	384.30	455.49	573.78	73.72	86.74	100.30	125.32
AB	Mojave Desert Air Basin	Winter	2011	333.12	384.93	455.44	574.92	73.66	86.21	100.29	125.53
AB	Mojave Desert Air Basin	Winter	2012	333.27	385.32	455.20	575.69	73.64	85.86	100.31	125.76
AB	Mojave Desert Air Basin	Winter	2013	333.05	385.06	454.41	575.60	73.63	85.55	100.34	126.01
AB	Mojave Desert Air Basin	Winter	2014	333.21	385.37	454.28	576.35	73.61	85.26	100.36	126.25
AB	Mojave Desert Air Basin	Winter	2015	332.88	384.72	453.17	575.82	73.61	85.08	100.41	126.51
AB	Mojave Desert Air Basin	Winter	2016	333.01	385.01	453.07	576.45	73.64	84.97	100.46	126.76
AB	Mojave Desert Air Basin	Winter	2017	333.11	385.25	453.01	577.05	73.64	84.82	100.48	127.01
AB	Mojave Desert Air Basin	Winter	2018	333.19	385.48	452.95	577.56	73.65	84.74	100.50	127.24
AB	Mojave Desert Air Basin	Winter	2019	333.26	385.66	452.78	577.90	73.67	84.82	100.55	127.46
AB	Mojave Desert Air Basin	Winter	2020	333.31	385.88	452.72	578.26	73.75	84.94	100.63	127.66
AB	Mojave Desert Air Basin	Winter	2021	333.84	386.51	453.18	579.23	73.81	85.09	100.70	127.82
AB	Mojave Desert Air Basin	Winter	2022	333.85	386.71	453.16	579.47	73.85	85.23	100.76	127.94
AB	Mojave Desert Air Basin	Winter	2023	333.84	386.88	453.13	579.65	73.88	85.35	100.81	128.10
AB	Mojave Desert Air Basin	Winter	2024	333.58	386.69	452.71	579.37	73.89	85.45	100.85	128.24
AB	Mojave Desert Air Basin	Winter	2025	333.59	386.82	452.70	579.54	73.91	85.55	100.89	128.37
AB	Mojave Desert Air Basin	Winter	2026	333.61	386.97	452.67	579.69	73.93	85.65	100.91	128.50
AB	Mojave Desert Air Basin	Winter	2027	333.62	387.10	452.64	579.84	73.94	85.73	100.93	128.62
AB	Mojave Desert Air Basin	Winter	2028	333.62	387.24	452.62	579.99	73.95	85.81	100.95	128.72
AB	Mojave Desert Air Basin	Winter	2029	333.62	387.37	452.60	580.13	73.96	85.88	100.96	128.81
AB	Mojave Desert Air Basin	Winter	2030	333.61	387.49	452.57	580.27	73.96	85.94	100.96	128.90
AB	Mojave Desert Air Basin	Winter	2031	334.68	388.66	453.66	582.05	73.96	86.01	100.97	128.98
AB	Mojave Desert Air Basin	Winter	2032	334.65	388.75	453.62	582.10	73.97	86.07	100.98	129.06
AB	Mojave Desert Air Basin	Winter	2033	334.62	388.83	453.59	582.15	73.97	86.12	100.98	129.12
AB	Mojave Desert Air Basin	Winter	2034	334.59	388.91	453.56	582.18	73.97	86.16	100.99	129.19
AB	Mojave Desert Air Basin	Winter	2035	334.57	388.97	453.53	582.21	73.98	86.20	100.99	129.24
AB	Mountain Counties Air Basin	Annual	2010	337.73	394.74	462.55	581.26	74.08	90.29	100.75	125.10
AB	Mountain Counties Air Basin	Annual	2011	337.82	394.79	462.03	581.86	73.91	89.26	100.66	125.21
AB	Mountain Counties Air Basin	Annual	2012	337.95	394.82	461.63	582.55	73.76	88.44	100.64	125.36
AB	Mountain Counties Air Basin	Annual	2013	338.09	394.86	461.34	583.31	73.65	87.72	100.62	125.55
AB	Mountain Counties Air Basin	Annual	2014	338.21	394.89	461.12	584.05	73.52	87.09	100.58	125.75
AB	Mountain Counties Air Basin	Annual	2015	338.36	394.93	460.94	584.84	73.48	86.55	100.58	125.97
AB	Mountain Counties Air Basin	Annual	2016	338.51	394.99	460.82	585.57	73.47	86.12	100.59	126.21
AB	Mountain Counties Air Basin	Annual	2017	338.61	395.01	460.71	586.27	73.44	85.65	100.57	126.46
AB	Mountain Counties Air Basin	Annual	2018	338.67	395.04	460.64	586.87	73.40	85.31	100.58	126.69
AB	Mountain Counties Air Basin	Annual	2019	337.56	394.13	459.45	585.79	73.39	85.18	100.60	126.91
AB	Mountain Counties Air Basin	Annual	2020	337.62	394.23	459.40	586.24	73.48	85.19	100.67	127.12
AB	Mountain Counties Air Basin	Annual	2021	337.66	394.34	459.35	586.55	73.54	85.26	100.73	127.25

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Mountain Counties Air Basin	Annual	2022	337.68	394.44	459.30	586.78	73.58	85.34	100.79	127.34
AB	Mountain Counties Air Basin	Annual	2023	337.66	394.51	459.24	586.97	73.60	85.39	100.83	127.51
AB	Mountain Counties Air Basin	Annual	2024	337.62	394.56	459.21	587.12	73.61	85.45	100.87	127.66
AB	Mountain Counties Air Basin	Annual	2025	337.61	394.61	459.18	587.29	73.62	85.53	100.90	127.82
AB	Mountain Counties Air Basin	Annual	2026	337.62	394.78	459.14	587.48	73.64	85.62	100.93	127.97
AB	Mountain Counties Air Basin	Annual	2027	337.63	394.92	459.10	587.67	73.66	85.70	100.95	128.11
AB	Mountain Counties Air Basin	Annual	2028	337.63	395.07	459.06	587.86	73.67	85.78	100.96	128.23
AB	Mountain Counties Air Basin	Annual	2029	337.63	395.23	459.02	588.06	73.67	85.85	100.96	128.35
AB	Mountain Counties Air Basin	Annual	2030	337.62	395.37	458.97	588.27	73.68	85.92	100.96	128.47
AB	Mountain Counties Air Basin	Annual	2031	337.63	395.50	458.95	588.48	73.68	85.98	100.97	128.58
AB	Mountain Counties Air Basin	Annual	2032	337.64	395.62	458.93	588.71	73.69	86.04	100.97	128.70
AB	Mountain Counties Air Basin	Annual	2033	337.64	395.72	458.92	588.91	73.69	86.10	100.98	128.80
AB	Mountain Counties Air Basin	Annual	2034	337.64	395.82	458.90	589.08	73.70	86.15	100.98	128.89
AB	Mountain Counties Air Basin	Annual	2035	337.64	395.90	458.89	589.24	73.70	86.20	100.98	128.98
AB	Mountain Counties Air Basin	Summer	2010	367.32	424.29	500.18	628.91	74.08	90.29	100.75	125.10
AB	Mountain Counties Air Basin	Summer	2011	367.66	425.17	499.91	629.58	73.91	89.26	100.66	125.21
AB	Mountain Counties Air Basin	Summer	2012	367.99	425.86	499.73	630.44	73.76	88.44	100.64	125.36
AB	Mountain Counties Air Basin	Summer	2013	368.29	426.43	499.63	631.41	73.65	87.72	100.62	125.55
AB	Mountain Counties Air Basin	Summer	2014	368.54	426.87	499.60	632.42	73.52	87.09	100.58	125.75
AB	Mountain Counties Air Basin	Summer	2015	368.78	427.27	499.58	633.49	73.48	86.55	100.58	125.97
AB	Mountain Counties Air Basin	Summer	2016	368.99	427.61	499.58	634.51	73.47	86.12	100.59	126.21
AB	Mountain Counties Air Basin	Summer	2017	369.12	427.89	499.57	635.47	73.44	85.65	100.57	126.46
AB	Mountain Counties Air Basin	Summer	2018	369.20	428.10	499.54	636.29	73.40	85.31	100.58	126.69
AB	Mountain Counties Air Basin	Summer	2019	367.97	427.24	498.26	635.21	73.39	85.18	100.60	126.91
AB	Mountain Counties Air Basin	Summer	2020	368.01	427.48	498.21	635.80	73.48	85.19	100.67	127.12
AB	Mountain Counties Air Basin	Summer	2021	368.06	427.68	498.13	636.19	73.54	85.26	100.73	127.25
AB	Mountain Counties Air Basin	Summer	2022	368.08	427.87	498.06	636.51	73.58	85.34	100.79	127.34
AB	Mountain Counties Air Basin	Summer	2023	368.06	428.03	497.99	636.75	73.60	85.39	100.83	127.51
AB	Mountain Counties Air Basin	Summer	2024	368.04	428.16	497.96	636.93	73.61	85.45	100.87	127.66
AB	Mountain Counties Air Basin	Summer	2025	368.03	428.28	497.93	637.11	73.62	85.53	100.90	127.82
AB	Mountain Counties Air Basin	Summer	2026	368.04	428.50	497.91	637.31	73.64	85.62	100.93	127.97
AB	Mountain Counties Air Basin	Summer	2027	368.05	428.70	497.89	637.51	73.66	85.70	100.95	128.11
AB	Mountain Counties Air Basin	Summer	2028	368.06	428.91	497.87	637.72	73.67	85.78	100.96	128.23
AB	Mountain Counties Air Basin	Summer	2029	368.07	429.12	497.85	637.95	73.67	85.85	100.96	128.35
AB	Mountain Counties Air Basin	Summer	2030	368.07	429.33	497.82	638.18	73.68	85.92	100.96	128.47
AB	Mountain Counties Air Basin	Summer	2031	368.08	429.52	497.80	638.46	73.68	85.98	100.97	128.58
AB	Mountain Counties Air Basin	Summer	2032	368.09	429.68	497.78	638.73	73.69	86.04	100.97	128.70
AB	Mountain Counties Air Basin	Summer	2033	368.10	429.81	497.77	638.99	73.69	86.10	100.98	128.80
AB	Mountain Counties Air Basin	Summer	2034	368.10	429.93	497.75	639.22	73.70	86.15	100.98	128.89
AB	Mountain Counties Air Basin	Summer	2035	368.10	430.02	497.74	639.43	73.70	86.20	100.98	128.98
AB	Mountain Counties Air Basin	Winter	2010	330.51	387.48	453.53	569.65	74.08	90.29	100.75	125.10
AB	Mountain Counties Air Basin	Winter	2011	330.54	387.32	452.95	570.23	73.91	89.26	100.66	125.21
AB	Mountain Counties Air Basin	Winter	2012	330.61	387.20	452.50	570.89	73.76	88.44	100.64	125.36
AB	Mountain Counties Air Basin	Winter	2013	330.72	387.10	452.16	571.58	73.65	87.72	100.62	125.55
AB	Mountain Counties Air Basin	Winter	2014	330.81	387.02	451.90	572.27	73.52	87.09	100.58	125.75
AB	Mountain Counties Air Basin	Winter	2015	330.94	386.98	451.69	572.98	73.48	86.55	100.58	125.97
AB	Mountain Counties Air Basin	Winter	2016	331.07	386.97	451.53	573.65	73.47	86.12	100.59	126.21
AB	Mountain Counties Air Basin	Winter	2017	331.16	386.93	451.40	574.28	73.44	85.65	100.57	126.46
AB	Mountain Counties Air Basin	Winter	2018	331.22	386.91	451.31	574.83	73.40	85.31	100.58	126.69
AB	Mountain Counties Air Basin	Winter	2019	330.14	385.98	450.15	573.74	73.39	85.18	100.60	126.91
AB	Mountain Counties Air Basin	Winter	2020	330.19	386.05	450.10	574.16	73.48	85.19	100.67	127.12
AB	Mountain Counties Air Basin	Winter	2021	330.24	386.14	450.05	574.44	73.54	85.26	100.73	127.25
AB	Mountain Counties Air Basin	Winter	2022	330.25	386.21	450.00	574.66	73.58	85.34	100.79	127.34
AB	Mountain Counties Air Basin	Winter	2023	330.22	386.26	449.94	574.82	73.60	85.39	100.83	127.51

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Mountain Counties Air Basin	Winter	2024	330.18	386.28	449.90	574.97	73.61	85.45	100.87	127.66
AB	Mountain Counties Air Basin	Winter	2025	330.17	386.33	449.87	575.13	73.62	85.53	100.90	127.82
AB	Mountain Counties Air Basin	Winter	2026	330.18	386.48	449.82	575.31	73.64	85.62	100.93	127.97
AB	Mountain Counties Air Basin	Winter	2027	330.19	386.60	449.78	575.50	73.66	85.70	100.95	128.11
AB	Mountain Counties Air Basin	Winter	2028	330.19	386.74	449.74	575.69	73.67	85.78	100.96	128.23
AB	Mountain Counties Air Basin	Winter	2029	330.18	386.88	449.69	575.87	73.67	85.85	100.96	128.35
AB	Mountain Counties Air Basin	Winter	2030	330.17	387.00	449.63	576.07	73.68	85.92	100.96	128.47
AB	Mountain Counties Air Basin	Winter	2031	330.18	387.12	449.61	576.27	73.68	85.98	100.97	128.58
AB	Mountain Counties Air Basin	Winter	2032	330.18	387.23	449.59	576.48	73.69	86.04	100.97	128.70
AB	Mountain Counties Air Basin	Winter	2033	330.18	387.32	449.58	576.66	73.69	86.10	100.98	128.80
AB	Mountain Counties Air Basin	Winter	2034	330.18	387.41	449.56	576.82	73.70	86.15	100.98	128.89
AB	Mountain Counties Air Basin	Winter	2035	330.18	387.48	449.55	576.96	73.70	86.20	100.98	128.98
AB	North Central Coast Air Basin	Annual	2010	352.08	409.85	484.60	606.53	72.96	88.37	99.87	123.92
AB	North Central Coast Air Basin	Annual	2011	352.06	409.40	483.84	606.61	72.93	87.57	99.90	124.13
AB	North Central Coast Air Basin	Annual	2012	352.19	409.24	483.32	607.40	72.89	86.90	99.95	124.37
AB	North Central Coast Air Basin	Annual	2013	352.37	409.19	482.92	608.27	72.92	86.40	100.03	124.65
AB	North Central Coast Air Basin	Annual	2014	352.53	409.12	482.60	609.12	72.92	85.94	100.10	124.93
AB	North Central Coast Air Basin	Annual	2015	352.73	409.11	482.36	609.99	72.98	85.55	100.18	125.24
AB	North Central Coast Air Basin	Annual	2016	352.92	409.09	482.18	610.81	73.05	85.20	100.28	125.55
AB	North Central Coast Air Basin	Annual	2017	353.06	409.10	482.04	611.59	73.09	84.93	100.35	125.86
AB	North Central Coast Air Basin	Annual	2018	353.17	409.13	481.94	612.28	73.12	84.71	100.43	126.15
AB	North Central Coast Air Basin	Annual	2019	353.27	409.25	481.87	612.89	73.16	84.66	100.51	126.43
AB	North Central Coast Air Basin	Annual	2020	353.37	409.39	481.83	613.44	73.25	84.73	100.59	126.69
AB	North Central Coast Air Basin	Annual	2021	354.32	410.59	483.10	615.32	73.33	84.87	100.68	126.92
AB	North Central Coast Air Basin	Annual	2022	354.37	410.77	483.07	615.74	73.38	84.99	100.74	127.10
AB	North Central Coast Air Basin	Annual	2023	354.37	410.92	483.04	616.07	73.42	85.10	100.80	127.31
AB	North Central Coast Air Basin	Annual	2024	354.34	411.03	483.02	616.34	73.43	85.19	100.84	127.49
AB	North Central Coast Air Basin	Annual	2025	354.34	411.14	483.01	616.61	73.45	85.28	100.88	127.66
AB	North Central Coast Air Basin	Annual	2026	353.30	409.99	481.54	614.89	73.47	85.37	100.91	127.83
AB	North Central Coast Air Basin	Annual	2027	353.33	410.12	481.49	615.18	73.49	85.45	100.93	127.98
AB	North Central Coast Air Basin	Annual	2028	353.35	410.27	481.44	615.46	73.50	85.52	100.94	128.12
AB	North Central Coast Air Basin	Annual	2029	353.36	410.41	481.37	615.73	73.51	85.58	100.94	128.25
AB	North Central Coast Air Basin	Annual	2030	353.37	410.56	481.31	616.01	73.51	85.65	100.94	128.38
AB	North Central Coast Air Basin	Annual	2031	353.39	410.72	481.27	616.28	73.52	85.71	100.95	128.50
AB	North Central Coast Air Basin	Annual	2032	353.41	410.88	481.25	616.56	73.52	85.77	100.96	128.62
AB	North Central Coast Air Basin	Annual	2033	353.43	411.02	481.23	616.82	73.53	85.83	100.96	128.73
AB	North Central Coast Air Basin	Annual	2034	353.45	411.15	481.21	617.05	73.53	85.88	100.96	128.83
AB	North Central Coast Air Basin	Annual	2035	353.47	411.25	481.20	617.25	73.54	85.93	100.97	128.92
AB	North Central Coast Air Basin	Summer	2010	372.98	431.76	511.84	642.11	72.96	88.37	99.87	123.92
AB	North Central Coast Air Basin	Summer	2011	373.14	431.60	511.31	642.11	72.93	87.57	99.90	124.13
AB	North Central Coast Air Basin	Summer	2012	373.41	431.71	511.01	642.95	72.89	86.90	99.95	124.37
AB	North Central Coast Air Basin	Summer	2013	373.71	431.90	510.79	643.91	72.92	86.40	100.03	124.65
AB	North Central Coast Air Basin	Summer	2014	373.96	432.06	510.63	644.90	72.92	85.94	100.10	124.93
AB	North Central Coast Air Basin	Summer	2015	374.21	432.22	510.51	645.93	72.98	85.55	100.18	125.24
AB	North Central Coast Air Basin	Summer	2016	374.44	432.38	510.41	646.92	73.05	85.20	100.28	125.55
AB	North Central Coast Air Basin	Summer	2017	374.60	432.55	510.33	647.86	73.09	84.93	100.35	125.86
AB	North Central Coast Air Basin	Summer	2018	374.71	432.72	510.25	648.67	73.12	84.71	100.43	126.15
AB	North Central Coast Air Basin	Summer	2019	374.81	432.96	510.19	649.38	73.16	84.66	100.51	126.43
AB	North Central Coast Air Basin	Summer	2020	374.91	433.20	510.15	650.02	73.25	84.73	100.59	126.69
AB	North Central Coast Air Basin	Summer	2021	375.91	434.52	511.49	652.05	73.33	84.87	100.68	126.92
AB	North Central Coast Air Basin	Summer	2022	375.97	434.78	511.48	652.54	73.38	84.99	100.74	127.10
AB	North Central Coast Air Basin	Summer	2023	375.98	434.99	511.46	652.91	73.42	85.10	100.80	127.31
AB	North Central Coast Air Basin	Summer	2024	375.97	435.16	511.45	653.21	73.43	85.19	100.84	127.49
AB	North Central Coast Air Basin	Summer	2025	375.98	435.32	511.45	653.50	73.45	85.28	100.88	127.66

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	North Central Coast Air Basin	Summer	2026	374.88	434.13	509.90	651.66	73.47	85.37	100.91	127.83
AB	North Central Coast Air Basin	Summer	2027	374.91	434.30	509.87	651.96	73.49	85.45	100.93	127.98
AB	North Central Coast Air Basin	Summer	2028	374.94	434.48	509.85	652.26	73.50	85.52	100.94	128.12
AB	North Central Coast Air Basin	Summer	2029	374.97	434.67	509.80	652.55	73.51	85.58	100.94	128.25
AB	North Central Coast Air Basin	Summer	2030	374.99	434.87	509.76	652.86	73.51	85.65	100.94	128.38
AB	North Central Coast Air Basin	Summer	2031	375.02	435.07	509.74	653.15	73.52	85.71	100.95	128.50
AB	North Central Coast Air Basin	Summer	2032	375.05	435.26	509.73	653.46	73.52	85.77	100.96	128.62
AB	North Central Coast Air Basin	Summer	2033	375.08	435.43	509.73	653.75	73.53	85.83	100.96	128.73
AB	North Central Coast Air Basin	Summer	2034	375.11	435.58	509.72	654.02	73.53	85.88	100.96	128.83
AB	North Central Coast Air Basin	Summer	2035	375.13	435.71	509.72	654.27	73.54	85.93	100.97	128.92
AB	North Central Coast Air Basin	Winter	2010	350.54	408.22	482.61	603.75	72.96	88.37	99.87	123.92
AB	North Central Coast Air Basin	Winter	2011	350.51	407.75	481.84	603.84	72.93	87.57	99.90	124.13
AB	North Central Coast Air Basin	Winter	2012	350.63	407.55	481.30	604.63	72.89	86.90	99.95	124.37
AB	North Central Coast Air Basin	Winter	2013	350.80	407.48	480.89	605.48	72.92	86.40	100.03	124.65
AB	North Central Coast Air Basin	Winter	2014	350.96	407.39	480.56	606.32	72.92	85.94	100.10	124.93
AB	North Central Coast Air Basin	Winter	2015	351.15	407.36	480.31	607.18	72.98	85.55	100.18	125.24
AB	North Central Coast Air Basin	Winter	2016	351.33	407.32	480.12	607.99	73.05	85.20	100.28	125.55
AB	North Central Coast Air Basin	Winter	2017	351.48	407.33	479.98	608.75	73.09	84.93	100.35	125.86
AB	North Central Coast Air Basin	Winter	2018	351.58	407.34	479.88	609.43	73.12	84.71	100.43	126.15
AB	North Central Coast Air Basin	Winter	2019	351.68	407.44	479.81	610.03	73.16	84.66	100.51	126.43
AB	North Central Coast Air Basin	Winter	2020	351.78	407.58	479.76	610.57	73.25	84.73	100.59	126.69
AB	North Central Coast Air Basin	Winter	2021	352.73	408.76	481.03	612.44	73.33	84.87	100.68	126.92
AB	North Central Coast Air Basin	Winter	2022	352.78	408.94	481.00	612.85	73.38	84.99	100.74	127.10
AB	North Central Coast Air Basin	Winter	2023	352.78	409.08	480.97	613.18	73.42	85.10	100.80	127.31
AB	North Central Coast Air Basin	Winter	2024	352.74	409.19	480.94	613.44	73.43	85.19	100.84	127.49
AB	North Central Coast Air Basin	Winter	2025	352.74	409.30	480.93	613.72	73.45	85.28	100.88	127.66
AB	North Central Coast Air Basin	Winter	2026	351.70	408.15	479.46	612.01	73.47	85.37	100.91	127.83
AB	North Central Coast Air Basin	Winter	2027	351.73	408.27	479.41	612.29	73.49	85.45	100.93	127.98
AB	North Central Coast Air Basin	Winter	2028	351.74	408.41	479.36	612.56	73.50	85.52	100.94	128.12
AB	North Central Coast Air Basin	Winter	2029	351.75	408.56	479.28	612.84	73.51	85.58	100.94	128.25
AB	North Central Coast Air Basin	Winter	2030	351.76	408.70	479.22	613.11	73.51	85.65	100.94	128.38
AB	North Central Coast Air Basin	Winter	2031	351.78	408.85	479.18	613.38	73.52	85.71	100.95	128.50
AB	North Central Coast Air Basin	Winter	2032	351.80	409.00	479.15	613.65	73.52	85.77	100.96	128.62
AB	North Central Coast Air Basin	Winter	2033	351.82	409.14	479.13	613.90	73.53	85.83	100.96	128.73
AB	North Central Coast Air Basin	Winter	2034	351.84	409.26	479.11	614.13	73.53	85.88	100.96	128.83
AB	North Central Coast Air Basin	Winter	2035	351.85	409.37	479.10	614.33	73.54	85.93	100.97	128.92
AB	North Coast Air Basin	Annual	2010	346.03	400.52	475.28	596.35	73.12	86.55	100.74	124.00
AB	North Coast Air Basin	Annual	2011	345.93	400.69	474.62	597.04	73.06	86.04	100.65	124.19
AB	North Coast Air Basin	Annual	2012	345.88	400.89	474.07	597.81	73.00	85.72	100.63	124.43
AB	North Coast Air Basin	Annual	2013	345.91	401.05	473.63	598.65	72.98	85.44	100.63	124.70
AB	North Coast Air Basin	Annual	2014	345.92	401.20	473.28	599.46	72.94	85.23	100.60	124.98
AB	North Coast Air Basin	Annual	2015	345.95	401.33	472.95	600.24	72.94	85.05	100.58	125.28
AB	North Coast Air Basin	Annual	2016	345.81	401.21	472.40	600.55	72.98	84.93	100.60	125.59
AB	North Coast Air Basin	Annual	2017	345.82	401.32	472.15	601.21	72.98	84.80	100.61	125.90
AB	North Coast Air Basin	Annual	2018	345.82	401.41	471.93	601.76	72.98	84.71	100.61	126.20
AB	North Coast Air Basin	Annual	2019	345.82	401.53	471.77	602.23	72.99	84.74	100.64	126.48
AB	North Coast Air Basin	Annual	2020	345.82	401.63	471.60	602.62	73.08	84.82	100.70	126.74
AB	North Coast Air Basin	Annual	2021	345.79	401.71	471.46	602.93	73.14	84.94	100.77	126.95
AB	North Coast Air Basin	Annual	2022	345.72	401.75	471.32	603.19	73.17	85.04	100.81	127.14
AB	North Coast Air Basin	Annual	2023	345.59	401.76	471.18	603.35	73.18	85.12	100.85	127.34
AB	North Coast Air Basin	Annual	2024	345.43	401.81	471.02	603.47	73.17	85.21	100.88	127.52
AB	North Coast Air Basin	Annual	2025	345.31	401.90	470.89	603.58	73.18	85.30	100.91	127.68
AB	North Coast Air Basin	Annual	2026	345.13	401.82	470.57	603.35	73.20	85.41	100.93	127.84
AB	North Coast Air Basin	Annual	2027	345.10	401.94	470.44	603.43	73.21	85.52	100.95	127.99

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	North Coast Air Basin	Annual	2028	345.05	402.06	470.32	603.52	73.22	85.61	100.96	128.14
AB	North Coast Air Basin	Annual	2029	345.00	402.17	470.19	603.61	73.23	85.70	100.96	128.27
AB	North Coast Air Basin	Annual	2030	344.94	402.27	470.04	603.71	73.23	85.78	100.96	128.39
AB	North Coast Air Basin	Annual	2031	344.89	402.39	469.96	603.89	73.24	85.87	100.96	128.52
AB	North Coast Air Basin	Annual	2032	344.84	402.47	469.89	604.06	73.24	85.94	100.97	128.64
AB	North Coast Air Basin	Annual	2033	344.80	402.54	469.82	604.20	73.25	86.01	100.97	128.75
AB	North Coast Air Basin	Annual	2034	344.75	402.59	469.75	604.33	73.25	86.07	100.97	128.85
AB	North Coast Air Basin	Annual	2035	344.70	402.62	469.68	604.43	73.26	86.13	100.98	128.94
AB	North Coast Air Basin	Summer	2010	351.51	406.21	482.43	606.18	73.12	86.55	100.74	124.00
AB	North Coast Air Basin	Summer	2011	351.45	406.55	481.82	606.87	73.06	86.04	100.65	124.19
AB	North Coast Air Basin	Summer	2012	351.44	406.87	481.30	607.68	73.00	85.72	100.63	124.43
AB	North Coast Air Basin	Summer	2013	351.49	407.13	480.89	608.55	72.98	85.44	100.63	124.70
AB	North Coast Air Basin	Summer	2014	351.51	407.36	480.57	609.42	72.94	85.23	100.60	124.98
AB	North Coast Air Basin	Summer	2015	351.54	407.54	480.27	610.23	72.94	85.05	100.58	125.28
AB	North Coast Air Basin	Summer	2016	351.38	407.46	479.71	610.56	72.98	84.93	100.60	125.59
AB	North Coast Air Basin	Summer	2017	351.39	407.61	479.45	611.26	72.98	84.80	100.61	125.90
AB	North Coast Air Basin	Summer	2018	351.37	407.72	479.23	611.82	72.98	84.71	100.61	126.20
AB	North Coast Air Basin	Summer	2019	351.35	407.87	479.06	612.30	72.99	84.74	100.64	126.48
AB	North Coast Air Basin	Summer	2020	351.34	407.98	478.88	612.71	73.08	84.82	100.70	126.74
AB	North Coast Air Basin	Summer	2021	351.30	408.08	478.72	613.02	73.14	84.94	100.77	126.95
AB	North Coast Air Basin	Summer	2022	351.22	408.14	478.58	613.27	73.17	85.04	100.81	127.14
AB	North Coast Air Basin	Summer	2023	351.08	408.16	478.43	613.43	73.18	85.12	100.85	127.34
AB	North Coast Air Basin	Summer	2024	350.90	408.23	478.27	613.55	73.17	85.21	100.88	127.52
AB	North Coast Air Basin	Summer	2025	350.77	408.33	478.13	613.64	73.18	85.30	100.91	127.68
AB	North Coast Air Basin	Summer	2026	350.58	408.26	477.79	613.38	73.20	85.41	100.93	127.84
AB	North Coast Air Basin	Summer	2027	350.54	408.38	477.65	613.43	73.21	85.52	100.95	127.99
AB	North Coast Air Basin	Summer	2028	350.49	408.51	477.52	613.51	73.22	85.61	100.96	128.14
AB	North Coast Air Basin	Summer	2029	350.43	408.63	477.38	613.58	73.23	85.70	100.96	128.27
AB	North Coast Air Basin	Summer	2030	350.36	408.73	477.22	613.66	73.23	85.78	100.96	128.39
AB	North Coast Air Basin	Summer	2031	350.30	408.86	477.13	613.84	73.24	85.87	100.96	128.52
AB	North Coast Air Basin	Summer	2032	350.25	408.94	477.05	614.01	73.24	85.94	100.97	128.64
AB	North Coast Air Basin	Summer	2033	350.19	409.01	476.97	614.15	73.25	86.01	100.97	128.75
AB	North Coast Air Basin	Summer	2034	350.13	409.05	476.89	614.28	73.25	86.07	100.97	128.85
AB	North Coast Air Basin	Summer	2035	350.07	409.06	476.81	614.38	73.26	86.13	100.98	128.94
AB	North Coast Air Basin	Winter	2010	342.74	397.09	470.93	590.57	73.12	86.55	100.74	124.00
AB	North Coast Air Basin	Winter	2011	342.60	397.17	470.23	591.24	73.06	86.04	100.65	124.19
AB	North Coast Air Basin	Winter	2012	342.54	397.29	469.66	592.00	73.00	85.72	100.63	124.43
AB	North Coast Air Basin	Winter	2013	342.55	397.39	469.20	592.80	72.98	85.44	100.63	124.70
AB	North Coast Air Basin	Winter	2014	342.55	397.49	468.83	593.59	72.94	85.23	100.60	124.98
AB	North Coast Air Basin	Winter	2015	342.58	397.57	468.49	594.34	72.94	85.05	100.58	125.28
AB	North Coast Air Basin	Winter	2016	342.44	397.43	467.93	594.63	72.98	84.93	100.60	125.59
AB	North Coast Air Basin	Winter	2017	342.46	397.52	467.68	595.27	72.98	84.80	100.61	125.90
AB	North Coast Air Basin	Winter	2018	342.46	397.59	467.46	595.80	72.98	84.71	100.61	126.20
AB	North Coast Air Basin	Winter	2019	342.46	397.69	467.30	596.26	72.99	84.74	100.64	126.48
AB	North Coast Air Basin	Winter	2020	342.47	397.78	467.14	596.65	73.08	84.82	100.70	126.74
AB	North Coast Air Basin	Winter	2021	342.45	397.84	467.00	596.95	73.14	84.94	100.77	126.95
AB	North Coast Air Basin	Winter	2022	342.38	397.87	466.87	597.20	73.17	85.04	100.81	127.14
AB	North Coast Air Basin	Winter	2023	342.26	397.88	466.74	597.36	73.18	85.12	100.85	127.34
AB	North Coast Air Basin	Winter	2024	342.10	397.91	466.57	597.49	73.17	85.21	100.88	127.52
AB	North Coast Air Basin	Winter	2025	341.99	397.99	466.45	597.60	73.18	85.30	100.91	127.68
AB	North Coast Air Basin	Winter	2026	341.81	397.91	466.13	597.38	73.20	85.41	100.93	127.84
AB	North Coast Air Basin	Winter	2027	341.78	398.02	466.02	597.47	73.21	85.52	100.95	127.99
AB	North Coast Air Basin	Winter	2028	341.74	398.13	465.90	597.57	73.22	85.61	100.96	128.14
AB	North Coast Air Basin	Winter	2029	341.69	398.24	465.77	597.67	73.23	85.70	100.96	128.27

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	North Coast Air Basin	Winter	2030	341.63	398.33	465.62	597.77	73.23	85.78	100.96	128.39
AB	North Coast Air Basin	Winter	2031	341.59	398.44	465.55	597.95	73.24	85.87	100.96	128.52
AB	North Coast Air Basin	Winter	2032	341.55	398.52	465.48	598.12	73.24	85.94	100.97	128.64
AB	North Coast Air Basin	Winter	2033	341.50	398.60	465.41	598.26	73.25	86.01	100.97	128.75
AB	North Coast Air Basin	Winter	2034	341.46	398.65	465.35	598.38	73.25	86.07	100.97	128.85
AB	North Coast Air Basin	Winter	2035	341.41	398.68	465.29	598.48	73.26	86.13	100.98	128.94
AB	Northeast Plateau Air Basin	Annual	2010	377.75	443.26	517.72	646.50	74.51	94.16	102.11	125.01
AB	Northeast Plateau Air Basin	Annual	2011	377.64	442.37	517.03	647.16	74.33	92.57	101.85	125.11
AB	Northeast Plateau Air Basin	Annual	2012	377.60	441.62	516.49	647.98	74.16	91.28	101.68	125.24
AB	Northeast Plateau Air Basin	Annual	2013	377.56	441.00	516.04	648.87	73.94	90.24	101.46	125.42
AB	Northeast Plateau Air Basin	Annual	2014	377.59	440.43	515.70	649.73	73.82	89.19	101.27	125.61
AB	Northeast Plateau Air Basin	Annual	2015	377.66	439.94	515.40	650.62	73.75	88.24	101.11	125.83
AB	Northeast Plateau Air Basin	Annual	2016	377.76	439.50	515.18	651.48	73.75	87.42	101.02	126.07
AB	Northeast Plateau Air Basin	Annual	2017	377.77	439.13	514.99	652.27	73.65	86.65	100.88	126.32
AB	Northeast Plateau Air Basin	Annual	2018	377.76	438.85	514.83	652.95	73.55	86.12	100.80	126.56
AB	Northeast Plateau Air Basin	Annual	2019	377.78	438.67	514.70	653.55	73.52	85.77	100.76	126.78
AB	Northeast Plateau Air Basin	Annual	2020	377.81	438.53	514.58	654.05	73.60	85.62	100.80	127.00
AB	Northeast Plateau Air Basin	Annual	2021	377.76	438.41	514.47	654.40	73.63	85.60	100.85	127.16
AB	Northeast Plateau Air Basin	Annual	2022	377.67	438.26	514.35	654.67	73.63	85.57	100.87	127.26
AB	Northeast Plateau Air Basin	Annual	2023	377.54	438.15	514.25	654.84	73.62	85.55	100.90	127.43
AB	Northeast Plateau Air Basin	Annual	2024	377.40	438.07	514.15	654.98	73.59	85.56	100.92	127.59
AB	Northeast Plateau Air Basin	Annual	2025	377.34	438.12	514.08	655.10	73.60	85.62	100.94	127.74
AB	Northeast Plateau Air Basin	Annual	2026	377.35	438.23	513.97	655.34	73.62	85.71	100.97	127.89
AB	Northeast Plateau Air Basin	Annual	2027	377.35	438.35	513.87	655.58	73.63	85.79	100.98	128.04
AB	Northeast Plateau Air Basin	Annual	2028	377.34	438.46	513.78	655.82	73.64	85.87	100.99	128.18
AB	Northeast Plateau Air Basin	Annual	2029	377.32	438.58	513.68	656.05	73.64	85.94	100.99	128.31
AB	Northeast Plateau Air Basin	Annual	2030	377.31	438.68	513.58	656.29	73.65	86.00	100.99	128.43
AB	Northeast Plateau Air Basin	Annual	2031	377.30	438.81	513.55	656.54	73.65	86.06	100.99	128.55
AB	Northeast Plateau Air Basin	Annual	2032	377.30	438.90	513.52	656.81	73.66	86.12	100.99	128.68
AB	Northeast Plateau Air Basin	Annual	2033	377.29	438.99	513.49	657.04	73.66	86.18	101.00	128.78
AB	Northeast Plateau Air Basin	Annual	2034	377.28	439.07	513.47	657.24	73.67	86.22	101.00	128.89
AB	Northeast Plateau Air Basin	Annual	2035	377.27	439.12	513.45	657.42	73.67	86.26	101.00	128.98
AB	Northeast Plateau Air Basin	Summer	2010	394.23	458.88	539.40	673.34	74.51	94.16	102.11	125.01
AB	Northeast Plateau Air Basin	Summer	2011	394.34	458.69	538.93	674.13	74.33	92.57	101.85	125.11
AB	Northeast Plateau Air Basin	Summer	2012	394.46	458.48	538.57	675.13	74.16	91.28	101.68	125.24
AB	Northeast Plateau Air Basin	Summer	2013	394.54	458.28	538.29	676.23	73.94	90.24	101.46	125.42
AB	Northeast Plateau Air Basin	Summer	2014	394.66	458.04	538.09	677.30	73.82	89.19	101.27	125.61
AB	Northeast Plateau Air Basin	Summer	2015	394.79	457.86	537.92	678.42	73.75	88.24	101.11	125.83
AB	Northeast Plateau Air Basin	Summer	2016	394.92	457.67	537.80	679.49	73.75	87.42	101.02	126.07
AB	Northeast Plateau Air Basin	Summer	2017	394.95	457.50	537.69	680.48	73.65	86.65	100.88	126.32
AB	Northeast Plateau Air Basin	Summer	2018	394.94	457.37	537.57	681.33	73.55	86.12	100.80	126.56
AB	Northeast Plateau Air Basin	Summer	2019	394.96	457.30	537.48	682.08	73.52	85.77	100.76	126.78
AB	Northeast Plateau Air Basin	Summer	2020	394.99	457.28	537.38	682.70	73.60	85.62	100.80	127.00
AB	Northeast Plateau Air Basin	Summer	2021	394.94	457.25	537.27	683.15	73.63	85.60	100.85	127.16
AB	Northeast Plateau Air Basin	Summer	2022	394.85	457.20	537.18	683.51	73.63	85.57	100.87	127.26
AB	Northeast Plateau Air Basin	Summer	2023	394.73	457.17	537.08	683.76	73.62	85.55	100.90	127.43
AB	Northeast Plateau Air Basin	Summer	2024	394.60	457.16	537.01	683.96	73.59	85.56	100.92	127.59
AB	Northeast Plateau Air Basin	Summer	2025	394.55	457.25	536.94	684.14	73.60	85.62	100.94	127.74
AB	Northeast Plateau Air Basin	Summer	2026	394.57	457.40	536.85	684.40	73.62	85.71	100.97	127.89
AB	Northeast Plateau Air Basin	Summer	2027	394.58	457.55	536.76	684.67	73.63	85.79	100.98	128.04
AB	Northeast Plateau Air Basin	Summer	2028	394.60	457.70	536.68	684.95	73.64	85.87	100.99	128.18
AB	Northeast Plateau Air Basin	Summer	2029	394.59	457.87	536.60	685.23	73.64	85.94	100.99	128.31
AB	Northeast Plateau Air Basin	Summer	2030	394.59	458.00	536.52	685.51	73.65	86.00	100.99	128.43
AB	Northeast Plateau Air Basin	Summer	2031	394.59	458.17	536.50	685.81	73.65	86.06	100.99	128.55

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Northeast Plateau Air Basin	Summer	2032	394.59	458.30	536.49	686.12	73.66	86.12	100.99	128.68
AB	Northeast Plateau Air Basin	Summer	2033	394.59	458.41	536.47	686.39	73.66	86.18	101.00	128.78
AB	Northeast Plateau Air Basin	Summer	2034	394.58	458.50	536.45	686.63	73.67	86.22	101.00	128.89
AB	Northeast Plateau Air Basin	Summer	2035	394.57	458.57	536.44	686.85	73.67	86.26	101.00	128.98
AB	Northeast Plateau Air Basin	Winter	2010	372.12	437.93	510.31	637.33	74.51	94.16	102.11	125.01
AB	Northeast Plateau Air Basin	Winter	2011	371.94	436.79	509.55	637.95	74.33	92.57	101.85	125.11
AB	Northeast Plateau Air Basin	Winter	2012	371.85	435.86	508.94	638.70	74.16	91.28	101.68	125.24
AB	Northeast Plateau Air Basin	Winter	2013	371.76	435.10	508.44	639.52	73.94	90.24	101.46	125.42
AB	Northeast Plateau Air Basin	Winter	2014	371.76	434.41	508.05	640.31	73.82	89.19	101.27	125.61
AB	Northeast Plateau Air Basin	Winter	2015	371.82	433.82	507.71	641.12	73.75	88.24	101.11	125.83
AB	Northeast Plateau Air Basin	Winter	2016	371.90	433.30	507.45	641.90	73.75	87.42	101.02	126.07
AB	Northeast Plateau Air Basin	Winter	2017	371.90	432.86	507.23	642.63	73.65	86.65	100.88	126.32
AB	Northeast Plateau Air Basin	Winter	2018	371.89	432.53	507.06	643.25	73.55	86.12	100.80	126.56
AB	Northeast Plateau Air Basin	Winter	2019	371.91	432.30	506.92	643.80	73.52	85.77	100.76	126.78
AB	Northeast Plateau Air Basin	Winter	2020	371.94	432.13	506.80	644.25	73.60	85.62	100.80	127.00
AB	Northeast Plateau Air Basin	Winter	2021	371.90	431.97	506.68	644.58	73.63	85.60	100.85	127.16
AB	Northeast Plateau Air Basin	Winter	2022	371.79	431.80	506.56	644.81	73.63	85.57	100.87	127.26
AB	Northeast Plateau Air Basin	Winter	2023	371.66	431.66	506.44	644.96	73.62	85.55	100.90	127.43
AB	Northeast Plateau Air Basin	Winter	2024	371.52	431.55	506.34	645.08	73.59	85.56	100.92	127.59
AB	Northeast Plateau Air Basin	Winter	2025	371.46	431.58	506.27	645.18	73.60	85.62	100.94	127.74
AB	Northeast Plateau Air Basin	Winter	2026	371.46	431.69	506.16	645.40	73.62	85.71	100.97	127.89
AB	Northeast Plateau Air Basin	Winter	2027	371.46	431.79	506.05	645.63	73.63	85.79	100.98	128.04
AB	Northeast Plateau Air Basin	Winter	2028	371.45	431.88	505.95	645.86	73.64	85.87	100.99	128.18
AB	Northeast Plateau Air Basin	Winter	2029	371.43	431.99	505.85	646.08	73.64	85.94	100.99	128.31
AB	Northeast Plateau Air Basin	Winter	2030	371.40	432.08	505.74	646.30	73.65	86.00	100.99	128.43
AB	Northeast Plateau Air Basin	Winter	2031	371.39	432.19	505.70	646.54	73.65	86.06	100.99	128.55
AB	Northeast Plateau Air Basin	Winter	2032	371.39	432.28	505.67	646.80	73.66	86.12	100.99	128.68
AB	Northeast Plateau Air Basin	Winter	2033	371.38	432.35	505.64	647.01	73.66	86.18	101.00	128.78
AB	Northeast Plateau Air Basin	Winter	2034	371.37	432.42	505.61	647.20	73.67	86.22	101.00	128.89
AB	Northeast Plateau Air Basin	Winter	2035	371.36	432.48	505.59	647.37	73.67	86.26	101.00	128.98
AB	Sacramento Valley Air Basin	Annual	2010	339.47	391.58	465.54	585.89	73.13	87.05	100.12	125.04
AB	Sacramento Valley Air Basin	Annual	2011	339.70	392.07	465.28	586.41	73.13	86.45	100.12	125.22
AB	Sacramento Valley Air Basin	Annual	2012	339.92	392.53	465.05	586.98	73.14	86.02	100.16	125.43
AB	Sacramento Valley Air Basin	Annual	2013	340.13	392.91	464.86	587.61	73.18	85.67	100.21	125.66
AB	Sacramento Valley Air Basin	Annual	2014	340.32	393.25	464.72	588.24	73.20	85.38	100.25	125.90
AB	Sacramento Valley Air Basin	Annual	2015	340.50	393.55	464.61	588.90	73.26	85.16	100.28	126.15
AB	Sacramento Valley Air Basin	Annual	2016	341.42	394.73	465.46	590.86	73.34	84.98	100.34	126.41
AB	Sacramento Valley Air Basin	Annual	2017	341.54	394.94	465.36	591.43	73.39	84.78	100.38	126.66
AB	Sacramento Valley Air Basin	Annual	2018	341.62	395.12	465.27	591.91	73.42	84.66	100.43	126.91
AB	Sacramento Valley Air Basin	Annual	2019	340.51	393.97	463.69	590.45	73.48	84.72	100.49	127.12
AB	Sacramento Valley Air Basin	Annual	2020	340.58	394.18	463.62	590.84	73.58	84.83	100.57	127.33
AB	Sacramento Valley Air Basin	Annual	2021	340.67	394.43	463.65	591.21	73.65	84.97	100.65	127.48
AB	Sacramento Valley Air Basin	Annual	2022	340.69	394.59	463.59	591.44	73.71	85.11	100.72	127.61
AB	Sacramento Valley Air Basin	Annual	2023	340.68	394.72	463.54	591.60	73.75	85.22	100.77	127.77
AB	Sacramento Valley Air Basin	Annual	2024	340.67	394.84	463.48	591.71	73.77	85.32	100.82	127.92
AB	Sacramento Valley Air Basin	Annual	2025	340.66	394.94	463.43	591.82	73.79	85.41	100.86	128.06
AB	Sacramento Valley Air Basin	Annual	2026	340.83	395.25	463.58	592.22	73.81	85.50	100.89	128.20
AB	Sacramento Valley Air Basin	Annual	2027	340.82	395.35	463.54	592.33	73.83	85.58	100.91	128.33
AB	Sacramento Valley Air Basin	Annual	2028	340.82	395.45	463.50	592.44	73.84	85.66	100.93	128.44
AB	Sacramento Valley Air Basin	Annual	2029	340.81	395.55	463.45	592.55	73.84	85.73	100.94	128.55
AB	Sacramento Valley Air Basin	Annual	2030	340.79	395.65	463.41	592.66	73.85	85.80	100.95	128.65
AB	Sacramento Valley Air Basin	Annual	2031	340.77	395.75	463.38	592.83	73.85	85.86	100.96	128.75
AB	Sacramento Valley Air Basin	Annual	2032	340.75	395.84	463.35	592.99	73.86	85.92	100.96	128.84
AB	Sacramento Valley Air Basin	Annual	2033	340.73	395.91	463.32	593.13	73.86	85.97	100.97	128.92

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Sacramento Valley Air Basin	Annual	2034	340.71	395.98	463.29	593.27	73.87	86.02	100.97	129.00
AB	Sacramento Valley Air Basin	Annual	2035	340.69	396.02	463.26	593.38	73.87	86.07	100.98	129.07
AB	Sacramento Valley Air Basin	Summer	2010	376.00	429.82	513.57	646.23	73.13	87.05	100.12	125.04
AB	Sacramento Valley Air Basin	Summer	2011	376.48	431.05	513.58	646.73	73.13	86.45	100.12	125.22
AB	Sacramento Valley Air Basin	Summer	2012	376.91	432.08	513.58	647.38	73.14	86.02	100.16	125.43
AB	Sacramento Valley Air Basin	Summer	2013	377.28	432.92	513.60	648.19	73.18	85.67	100.21	125.66
AB	Sacramento Valley Air Basin	Summer	2014	377.59	433.62	513.66	649.04	73.20	85.38	100.25	125.90
AB	Sacramento Valley Air Basin	Summer	2015	377.87	434.22	513.73	649.95	73.26	85.16	100.28	126.15
AB	Sacramento Valley Air Basin	Summer	2016	378.93	435.71	514.80	652.32	73.34	84.98	100.34	126.41
AB	Sacramento Valley Air Basin	Summer	2017	379.08	436.13	514.80	653.13	73.39	84.78	100.38	126.66
AB	Sacramento Valley Air Basin	Summer	2018	379.17	436.45	514.75	653.82	73.42	84.66	100.43	126.91
AB	Sacramento Valley Air Basin	Summer	2019	377.91	435.23	513.00	652.30	73.48	84.72	100.49	127.12
AB	Sacramento Valley Air Basin	Summer	2020	377.97	435.53	512.92	652.83	73.58	84.83	100.57	127.33
AB	Sacramento Valley Air Basin	Summer	2021	378.06	435.87	512.93	653.31	73.65	84.97	100.65	127.48
AB	Sacramento Valley Air Basin	Summer	2022	378.08	436.12	512.86	653.62	73.71	85.11	100.72	127.61
AB	Sacramento Valley Air Basin	Summer	2023	378.08	436.32	512.79	653.85	73.75	85.22	100.77	127.77
AB	Sacramento Valley Air Basin	Summer	2024	378.07	436.51	512.72	653.98	73.77	85.32	100.82	127.92
AB	Sacramento Valley Air Basin	Summer	2025	378.07	436.68	512.67	654.11	73.79	85.41	100.86	128.06
AB	Sacramento Valley Air Basin	Summer	2026	378.25	437.06	512.85	654.54	73.81	85.50	100.89	128.20
AB	Sacramento Valley Air Basin	Summer	2027	378.25	437.21	512.82	654.66	73.83	85.58	100.91	128.33
AB	Sacramento Valley Air Basin	Summer	2028	378.26	437.36	512.81	654.79	73.84	85.66	100.93	128.44
AB	Sacramento Valley Air Basin	Summer	2029	378.26	437.53	512.79	654.92	73.84	85.73	100.94	128.55
AB	Sacramento Valley Air Basin	Summer	2030	378.25	437.69	512.77	655.06	73.85	85.80	100.95	128.65
AB	Sacramento Valley Air Basin	Summer	2031	378.24	437.85	512.75	655.24	73.85	85.86	100.96	128.75
AB	Sacramento Valley Air Basin	Summer	2032	378.23	437.99	512.73	655.43	73.86	85.92	100.96	128.84
AB	Sacramento Valley Air Basin	Summer	2033	378.22	438.09	512.71	655.61	73.86	85.97	100.97	128.92
AB	Sacramento Valley Air Basin	Summer	2034	378.21	438.19	512.69	655.79	73.87	86.02	100.97	129.00
AB	Sacramento Valley Air Basin	Summer	2035	378.19	438.26	512.67	655.95	73.87	86.07	100.98	129.07
AB	Sacramento Valley Air Basin	Winter	2010	329.45	381.14	452.22	569.20	73.13	87.05	100.12	125.04
AB	Sacramento Valley Air Basin	Winter	2011	329.60	381.43	451.86	569.72	73.13	86.45	100.12	125.22
AB	Sacramento Valley Air Basin	Winter	2012	329.76	381.73	451.56	570.27	73.14	86.02	100.16	125.43
AB	Sacramento Valley Air Basin	Winter	2013	329.93	381.98	451.31	570.86	73.18	85.67	100.21	125.66
AB	Sacramento Valley Air Basin	Winter	2014	330.08	382.22	451.11	571.43	73.20	85.38	100.25	125.90
AB	Sacramento Valley Air Basin	Winter	2015	330.24	382.45	450.95	572.00	73.26	85.16	100.28	126.15
AB	Sacramento Valley Air Basin	Winter	2016	331.12	383.54	451.74	573.86	73.34	84.98	100.34	126.41
AB	Sacramento Valley Air Basin	Winter	2017	331.23	383.69	451.61	574.36	73.39	84.78	100.38	126.66
AB	Sacramento Valley Air Basin	Winter	2018	331.30	383.82	451.51	574.78	73.42	84.66	100.43	126.91
AB	Sacramento Valley Air Basin	Winter	2019	330.23	382.69	449.98	573.34	73.48	84.72	100.49	127.12
AB	Sacramento Valley Air Basin	Winter	2020	330.31	382.88	449.92	573.69	73.58	84.83	100.57	127.33
AB	Sacramento Valley Air Basin	Winter	2021	330.40	383.10	449.95	574.02	73.65	84.97	100.65	127.48
AB	Sacramento Valley Air Basin	Winter	2022	330.42	383.25	449.90	574.22	73.71	85.11	100.72	127.61
AB	Sacramento Valley Air Basin	Winter	2023	330.41	383.35	449.84	574.36	73.75	85.22	100.77	127.77
AB	Sacramento Valley Air Basin	Winter	2024	330.40	383.45	449.79	574.46	73.77	85.32	100.82	127.92
AB	Sacramento Valley Air Basin	Winter	2025	330.38	383.54	449.74	574.57	73.79	85.41	100.86	128.06
AB	Sacramento Valley Air Basin	Winter	2026	330.55	383.83	449.88	574.96	73.81	85.50	100.89	128.20
AB	Sacramento Valley Air Basin	Winter	2027	330.54	383.91	449.84	575.06	73.83	85.58	100.91	128.33
AB	Sacramento Valley Air Basin	Winter	2028	330.53	383.99	449.79	575.17	73.84	85.66	100.93	128.44
AB	Sacramento Valley Air Basin	Winter	2029	330.52	384.08	449.74	575.27	73.84	85.73	100.94	128.55
AB	Sacramento Valley Air Basin	Winter	2030	330.50	384.16	449.69	575.37	73.85	85.80	100.95	128.65
AB	Sacramento Valley Air Basin	Winter	2031	330.48	384.24	449.65	575.53	73.85	85.86	100.96	128.75
AB	Sacramento Valley Air Basin	Winter	2032	330.45	384.32	449.62	575.68	73.86	85.92	100.96	128.84
AB	Sacramento Valley Air Basin	Winter	2033	330.43	384.39	449.58	575.82	73.86	85.97	100.97	128.92
AB	Sacramento Valley Air Basin	Winter	2034	330.41	384.44	449.55	575.94	73.87	86.02	100.97	129.00
AB	Sacramento Valley Air Basin	Winter	2035	330.39	384.48	449.51	576.04	73.87	86.07	100.98	129.07

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Salton Sea Air Basin	Annual	2010	341.46	391.26	466.98	588.92	72.93	84.54	99.89	125.12
AB	Salton Sea Air Basin	Annual	2011	340.83	391.09	465.62	588.09	73.00	84.47	99.94	125.40
AB	Salton Sea Air Basin	Annual	2012	341.10	391.81	465.53	588.82	73.09	84.44	100.03	125.69
AB	Salton Sea Air Basin	Annual	2013	339.89	390.79	463.45	587.06	73.20	84.46	100.12	126.01
AB	Salton Sea Air Basin	Annual	2014	340.06	391.30	463.35	587.74	73.28	84.51	100.21	126.32
AB	Salton Sea Air Basin	Annual	2015	337.14	388.08	459.06	582.96	73.36	84.58	100.30	126.63
AB	Salton Sea Air Basin	Annual	2016	337.23	388.43	458.97	583.49	73.43	84.66	100.39	126.92
AB	Salton Sea Air Basin	Annual	2017	337.28	388.72	458.87	583.97	73.48	84.73	100.46	127.20
AB	Salton Sea Air Basin	Annual	2018	337.30	388.94	458.77	584.35	73.51	84.81	100.51	127.46
AB	Salton Sea Air Basin	Annual	2019	337.18	389.02	458.52	584.48	73.55	84.95	100.58	127.69
AB	Salton Sea Air Basin	Annual	2020	337.18	389.22	458.46	584.79	73.61	85.11	100.66	127.91
AB	Salton Sea Air Basin	Annual	2021	337.69	390.02	459.17	585.99	73.66	85.25	100.73	128.08
AB	Salton Sea Air Basin	Annual	2022	337.68	390.23	459.20	586.30	73.68	85.37	100.78	128.23
AB	Salton Sea Air Basin	Annual	2023	337.64	390.41	459.22	586.55	73.68	85.48	100.83	128.38
AB	Salton Sea Air Basin	Annual	2024	341.70	395.19	464.82	593.82	73.69	85.57	100.86	128.50
AB	Salton Sea Air Basin	Annual	2025	341.66	395.34	464.85	594.02	73.69	85.66	100.90	128.62
AB	Salton Sea Air Basin	Annual	2026	341.65	395.52	464.87	594.24	73.69	85.74	100.92	128.73
AB	Salton Sea Air Basin	Annual	2027	341.63	395.69	464.90	594.45	73.69	85.81	100.94	128.82
AB	Salton Sea Air Basin	Annual	2028	341.62	395.85	464.93	594.65	73.69	85.88	100.95	128.91
AB	Salton Sea Air Basin	Annual	2029	341.61	396.01	464.96	594.85	73.69	85.94	100.96	128.98
AB	Salton Sea Air Basin	Annual	2030	341.59	396.17	464.99	595.05	73.69	86.00	100.97	129.05
AB	Salton Sea Air Basin	Annual	2031	346.94	402.31	472.49	604.70	73.69	86.05	100.98	129.12
AB	Salton Sea Air Basin	Annual	2032	346.94	402.50	472.58	605.00	73.69	86.10	100.98	129.18
AB	Salton Sea Air Basin	Annual	2033	346.94	402.68	472.66	605.29	73.69	86.15	100.99	129.23
AB	Salton Sea Air Basin	Annual	2034	346.96	402.84	472.74	605.57	73.69	86.19	100.99	129.28
AB	Salton Sea Air Basin	Annual	2035	346.97	402.99	472.83	605.83	73.70	86.22	100.99	129.33
AB	Salton Sea Air Basin	Summer	2010	347.94	398.06	475.64	600.02	72.93	84.54	99.89	125.12
AB	Salton Sea Air Basin	Summer	2011	347.40	398.07	474.36	599.23	73.00	84.47	99.94	125.40
AB	Salton Sea Air Basin	Summer	2012	347.71	398.93	474.30	599.96	73.09	84.44	100.03	125.69
AB	Salton Sea Air Basin	Summer	2013	346.51	397.99	472.23	598.20	73.20	84.46	100.12	126.01
AB	Salton Sea Air Basin	Summer	2014	346.72	398.61	472.18	598.94	73.28	84.51	100.21	126.32
AB	Salton Sea Air Basin	Summer	2015	343.80	395.45	467.91	594.18	73.36	84.58	100.30	126.63
AB	Salton Sea Air Basin	Summer	2016	343.92	395.87	467.86	594.79	73.43	84.66	100.39	126.92
AB	Salton Sea Air Basin	Summer	2017	343.99	396.22	467.80	595.33	73.48	84.73	100.46	127.20
AB	Salton Sea Air Basin	Summer	2018	344.01	396.49	467.72	595.75	73.51	84.81	100.51	127.46
AB	Salton Sea Air Basin	Summer	2019	343.91	396.62	467.49	595.93	73.55	84.95	100.58	127.69
AB	Salton Sea Air Basin	Summer	2020	343.92	396.85	467.43	596.26	73.61	85.11	100.66	127.91
AB	Salton Sea Air Basin	Summer	2021	344.42	397.64	468.12	597.44	73.66	85.25	100.73	128.08
AB	Salton Sea Air Basin	Summer	2022	344.40	397.86	468.13	597.74	73.68	85.37	100.78	128.23
AB	Salton Sea Air Basin	Summer	2023	344.36	398.04	468.14	597.97	73.68	85.48	100.83	128.38
AB	Salton Sea Air Basin	Summer	2024	348.46	402.88	473.79	605.31	73.69	85.57	100.86	128.50
AB	Salton Sea Air Basin	Summer	2025	348.42	403.03	473.81	605.50	73.69	85.66	100.90	128.62
AB	Salton Sea Air Basin	Summer	2026	348.41	403.21	473.82	605.69	73.69	85.74	100.92	128.73
AB	Salton Sea Air Basin	Summer	2027	348.39	403.37	473.84	605.88	73.69	85.81	100.94	128.82
AB	Salton Sea Air Basin	Summer	2028	348.38	403.54	473.86	606.07	73.69	85.88	100.95	128.91
AB	Salton Sea Air Basin	Summer	2029	348.37	403.70	473.88	606.25	73.69	85.94	100.96	128.98
AB	Salton Sea Air Basin	Summer	2030	348.36	403.86	473.90	606.44	73.69	86.00	100.97	129.05
AB	Salton Sea Air Basin	Summer	2031	353.82	410.13	481.56	616.27	73.69	86.05	100.98	129.12
AB	Salton Sea Air Basin	Summer	2032	353.82	410.32	481.63	616.55	73.69	86.10	100.98	129.18
AB	Salton Sea Air Basin	Summer	2033	353.83	410.49	481.71	616.83	73.69	86.15	100.99	129.23
AB	Salton Sea Air Basin	Summer	2034	353.84	410.65	481.79	617.09	73.69	86.19	100.99	129.28
AB	Salton Sea Air Basin	Summer	2035	353.84	410.79	481.87	617.33	73.70	86.22	100.99	129.33
AB	Salton Sea Air Basin	Winter	2010	322.01	371.13	441.23	556.43	72.93	84.54	99.89	125.12
AB	Salton Sea Air Basin	Winter	2011	321.32	370.64	439.87	555.70	73.00	84.47	99.94	125.40

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	Salton Sea Air Basin	Winter	2012	321.51	371.06	439.70	556.40	73.09	84.44	100.03	125.69
AB	Salton Sea Air Basin	Winter	2013	320.31	369.85	437.64	554.68	73.20	84.46	100.12	126.01
AB	Salton Sea Air Basin	Winter	2014	320.43	370.15	437.46	555.24	73.28	84.51	100.21	126.32
AB	Salton Sea Air Basin	Winter	2015	317.65	366.97	433.34	550.64	73.36	84.58	100.30	126.63
AB	Salton Sea Air Basin	Winter	2016	317.72	367.19	433.19	551.06	73.43	84.66	100.39	126.92
AB	Salton Sea Air Basin	Winter	2017	317.76	367.38	433.05	551.44	73.48	84.73	100.46	127.20
AB	Salton Sea Air Basin	Winter	2018	317.77	367.53	432.94	551.76	73.51	84.81	100.51	127.46
AB	Salton Sea Air Basin	Winter	2019	317.66	367.56	432.69	551.84	73.55	84.95	100.58	127.69
AB	Salton Sea Air Basin	Winter	2020	317.66	367.71	432.63	552.09	73.61	85.11	100.66	127.91
AB	Salton Sea Air Basin	Winter	2021	318.16	368.43	433.31	553.22	73.66	85.25	100.73	128.08
AB	Salton Sea Air Basin	Winter	2022	318.16	368.61	433.35	553.51	73.68	85.37	100.78	128.23
AB	Salton Sea Air Basin	Winter	2023	318.13	368.75	433.38	553.75	73.68	85.48	100.83	128.38
AB	Salton Sea Air Basin	Winter	2024	321.95	373.25	438.66	560.61	73.69	85.57	100.86	128.50
AB	Salton Sea Air Basin	Winter	2025	321.92	373.37	438.70	560.81	73.69	85.66	100.90	128.62
AB	Salton Sea Air Basin	Winter	2026	321.91	373.53	438.74	561.04	73.69	85.74	100.92	128.73
AB	Salton Sea Air Basin	Winter	2027	321.90	373.68	438.78	561.26	73.69	85.81	100.94	128.82
AB	Salton Sea Air Basin	Winter	2028	321.88	373.82	438.82	561.46	73.69	85.88	100.95	128.91
AB	Salton Sea Air Basin	Winter	2029	321.86	373.96	438.84	561.66	73.69	85.94	100.96	128.98
AB	Salton Sea Air Basin	Winter	2030	321.84	374.09	438.87	561.85	73.69	86.00	100.97	129.05
AB	Salton Sea Air Basin	Winter	2031	326.88	379.86	445.94	570.95	73.69	86.05	100.98	129.12
AB	Salton Sea Air Basin	Winter	2032	326.88	380.03	446.02	571.24	73.69	86.10	100.98	129.18
AB	Salton Sea Air Basin	Winter	2033	326.89	380.18	446.09	571.52	73.69	86.15	100.99	129.23
AB	Salton Sea Air Basin	Winter	2034	326.90	380.33	446.17	571.77	73.69	86.19	100.99	129.28
AB	Salton Sea Air Basin	Winter	2035	326.91	380.46	446.25	572.01	73.70	86.22	100.99	129.33
AB	San Diego Air Basin	Annual	2010	352.52	405.15	482.46	610.22	72.99	83.92	99.34	125.27
AB	San Diego Air Basin	Annual	2011	353.81	407.05	483.85	612.57	73.01	83.88	99.44	125.44
AB	San Diego Air Basin	Annual	2012	354.03	407.67	483.80	613.09	73.05	83.89	99.57	125.64
AB	San Diego Air Basin	Annual	2013	354.28	408.23	483.77	613.65	73.12	83.94	99.70	125.85
AB	San Diego Air Basin	Annual	2014	354.50	408.76	483.75	614.21	73.17	83.99	99.82	126.06
AB	San Diego Air Basin	Annual	2015	354.72	409.25	483.74	614.79	73.24	84.07	99.93	126.29
AB	San Diego Air Basin	Annual	2016	354.92	409.69	483.74	615.32	73.32	84.16	100.05	126.52
AB	San Diego Air Basin	Annual	2017	355.08	410.10	483.73	615.84	73.37	84.25	100.15	126.74
AB	San Diego Air Basin	Annual	2018	355.21	410.47	483.74	616.29	73.41	84.35	100.25	126.96
AB	San Diego Air Basin	Annual	2019	355.33	410.82	483.74	616.69	73.46	84.52	100.35	127.15
AB	San Diego Air Basin	Annual	2020	355.43	411.15	483.75	617.07	73.55	84.69	100.45	127.34
AB	San Diego Air Basin	Annual	2021	356.07	412.11	484.56	618.41	73.62	84.87	100.55	127.52
AB	San Diego Air Basin	Annual	2022	356.11	412.36	484.56	618.69	73.67	85.02	100.63	127.67
AB	San Diego Air Basin	Annual	2023	356.12	412.55	484.56	618.89	73.71	85.15	100.70	127.83
AB	San Diego Air Basin	Annual	2024	356.12	412.71	484.55	619.06	73.72	85.27	100.76	127.98
AB	San Diego Air Basin	Annual	2025	356.11	412.86	484.55	619.23	73.74	85.38	100.81	128.12
AB	San Diego Air Basin	Annual	2026	356.13	413.01	484.54	619.39	73.76	85.48	100.85	128.26
AB	San Diego Air Basin	Annual	2027	356.14	413.16	484.53	619.54	73.77	85.57	100.88	128.38
AB	San Diego Air Basin	Annual	2028	356.15	413.30	484.51	619.69	73.78	85.66	100.90	128.48
AB	San Diego Air Basin	Annual	2029	356.15	413.45	484.50	619.84	73.79	85.74	100.92	128.58
AB	San Diego Air Basin	Annual	2030	356.14	413.59	484.49	619.98	73.79	85.81	100.93	128.68
AB	San Diego Air Basin	Annual	2031	356.14	413.74	484.48	620.13	73.80	85.89	100.94	128.77
AB	San Diego Air Basin	Annual	2032	356.14	413.87	484.48	620.29	73.80	85.96	100.95	128.86
AB	San Diego Air Basin	Annual	2033	356.14	414.00	484.47	620.43	73.80	86.02	100.96	128.93
AB	San Diego Air Basin	Annual	2034	356.13	414.10	484.46	620.55	73.80	86.08	100.97	129.01
AB	San Diego Air Basin	Annual	2035	356.13	414.20	484.46	620.67	73.81	86.13	100.97	129.08
AB	San Diego Air Basin	Summer	2010	372.46	426.19	509.00	643.64	72.99	83.92	99.34	125.27
AB	San Diego Air Basin	Summer	2011	373.89	428.41	510.48	645.96	73.01	83.88	99.44	125.44
AB	San Diego Air Basin	Summer	2012	374.19	429.26	510.46	646.43	73.05	83.89	99.57	125.64
AB	San Diego Air Basin	Summer	2013	374.48	430.00	510.47	646.99	73.12	83.94	99.70	125.85

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	San Diego Air Basin	Summer	2014	374.75	430.67	510.51	647.60	73.17	83.99	99.82	126.06
AB	San Diego Air Basin	Summer	2015	375.00	431.27	510.56	648.26	73.24	84.07	99.93	126.29
AB	San Diego Air Basin	Summer	2016	375.24	431.81	510.61	648.90	73.32	84.16	100.05	126.52
AB	San Diego Air Basin	Summer	2017	375.42	432.30	510.65	649.52	73.37	84.25	100.15	126.74
AB	San Diego Air Basin	Summer	2018	375.55	432.74	510.67	650.05	73.41	84.35	100.25	126.96
AB	San Diego Air Basin	Summer	2019	375.68	433.15	510.68	650.53	73.46	84.52	100.35	127.15
AB	San Diego Air Basin	Summer	2020	375.78	433.52	510.68	650.97	73.55	84.69	100.45	127.34
AB	San Diego Air Basin	Summer	2021	376.47	434.60	511.57	652.47	73.62	84.87	100.55	127.52
AB	San Diego Air Basin	Summer	2022	376.52	434.90	511.57	652.82	73.67	85.02	100.63	127.67
AB	San Diego Air Basin	Summer	2023	376.54	435.14	511.57	653.07	73.71	85.15	100.70	127.83
AB	San Diego Air Basin	Summer	2024	376.54	435.34	511.56	653.27	73.72	85.27	100.76	127.98
AB	San Diego Air Basin	Summer	2025	376.54	435.52	511.56	653.45	73.74	85.38	100.81	128.12
AB	San Diego Air Basin	Summer	2026	376.55	435.72	511.54	653.62	73.76	85.48	100.85	128.26
AB	San Diego Air Basin	Summer	2027	376.56	435.90	511.53	653.77	73.77	85.57	100.88	128.38
AB	San Diego Air Basin	Summer	2028	376.57	436.07	511.51	653.92	73.78	85.66	100.90	128.48
AB	San Diego Air Basin	Summer	2029	376.58	436.25	511.49	654.06	73.79	85.74	100.92	128.58
AB	San Diego Air Basin	Summer	2030	376.58	436.43	511.48	654.21	73.79	85.81	100.93	128.68
AB	San Diego Air Basin	Summer	2031	376.57	436.61	511.47	654.35	73.80	85.89	100.94	128.77
AB	San Diego Air Basin	Summer	2032	376.57	436.77	511.46	654.51	73.80	85.96	100.95	128.86
AB	San Diego Air Basin	Summer	2033	376.57	436.92	511.45	654.65	73.80	86.02	100.96	128.93
AB	San Diego Air Basin	Summer	2034	376.57	437.04	511.45	654.79	73.80	86.08	100.97	129.01
AB	San Diego Air Basin	Summer	2035	376.57	437.14	511.44	654.92	73.81	86.13	100.97	129.08
AB	San Diego Air Basin	Winter	2010	348.91	401.34	477.65	604.17	72.99	83.92	99.34	125.27
AB	San Diego Air Basin	Winter	2011	350.18	403.18	479.04	606.53	73.01	83.88	99.44	125.44
AB	San Diego Air Basin	Winter	2012	350.39	403.76	478.98	607.06	73.05	83.89	99.57	125.64
AB	San Diego Air Basin	Winter	2013	350.62	404.30	478.94	607.62	73.12	83.94	99.70	125.85
AB	San Diego Air Basin	Winter	2014	350.83	404.79	478.91	608.17	73.17	83.99	99.82	126.06
AB	San Diego Air Basin	Winter	2015	351.05	405.26	478.89	608.73	73.24	84.07	99.93	126.29
AB	San Diego Air Basin	Winter	2016	351.25	405.69	478.88	609.25	73.32	84.16	100.05	126.52
AB	San Diego Air Basin	Winter	2017	351.40	406.08	478.87	609.75	73.37	84.25	100.15	126.74
AB	San Diego Air Basin	Winter	2018	351.53	406.44	478.86	610.18	73.41	84.35	100.25	126.96
AB	San Diego Air Basin	Winter	2019	351.65	406.78	478.87	610.57	73.46	84.52	100.35	127.15
AB	San Diego Air Basin	Winter	2020	351.75	407.10	478.87	610.94	73.55	84.69	100.45	127.34
AB	San Diego Air Basin	Winter	2021	352.38	408.04	479.67	612.25	73.62	84.87	100.55	127.52
AB	San Diego Air Basin	Winter	2022	352.42	408.28	479.67	612.51	73.67	85.02	100.63	127.67
AB	San Diego Air Basin	Winter	2023	352.43	408.47	479.67	612.71	73.71	85.15	100.70	127.83
AB	San Diego Air Basin	Winter	2024	352.42	408.62	479.66	612.87	73.72	85.27	100.76	127.98
AB	San Diego Air Basin	Winter	2025	352.42	408.75	479.66	613.03	73.74	85.38	100.81	128.12
AB	San Diego Air Basin	Winter	2026	352.43	408.90	479.65	613.20	73.76	85.48	100.85	128.26
AB	San Diego Air Basin	Winter	2027	352.44	409.04	479.64	613.35	73.77	85.57	100.88	128.38
AB	San Diego Air Basin	Winter	2028	352.45	409.18	479.63	613.50	73.78	85.66	100.90	128.48
AB	San Diego Air Basin	Winter	2029	352.45	409.32	479.62	613.64	73.79	85.74	100.92	128.58
AB	San Diego Air Basin	Winter	2030	352.45	409.46	479.60	613.79	73.79	85.81	100.93	128.68
AB	San Diego Air Basin	Winter	2031	352.44	409.60	479.60	613.94	73.80	85.89	100.94	128.77
AB	San Diego Air Basin	Winter	2032	352.44	409.73	479.59	614.10	73.80	85.96	100.95	128.86
AB	San Diego Air Basin	Winter	2033	352.44	409.85	479.59	614.23	73.80	86.02	100.96	128.93
AB	San Diego Air Basin	Winter	2034	352.44	409.95	479.58	614.36	73.80	86.08	100.97	129.01
AB	San Diego Air Basin	Winter	2035	352.43	410.04	479.57	614.47	73.81	86.13	100.97	129.08
AB	San Francisco Air Basin	Annual	2010	338.39	388.50	461.86	581.62	72.94	84.37	99.40	124.69
AB	San Francisco Air Basin	Annual	2011	338.52	388.90	461.72	582.11	72.98	84.25	99.50	124.89
AB	San Francisco Air Basin	Annual	2012	338.67	389.32	461.62	582.66	73.02	84.19	99.62	125.11
AB	San Francisco Air Basin	Annual	2013	338.86	389.72	461.54	583.26	73.09	84.17	99.74	125.34
AB	San Francisco Air Basin	Annual	2014	339.03	390.09	461.49	583.86	73.15	84.17	99.85	125.59
AB	San Francisco Air Basin	Annual	2015	339.22	390.46	461.45	584.47	73.23	84.19	99.96	125.85

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	San Francisco Air Basin	Annual	2016	339.41	390.83	461.42	585.05	73.32	84.24	100.07	126.10
AB	San Francisco Air Basin	Annual	2017	339.54	391.17	461.39	585.61	73.38	84.29	100.17	126.36
AB	San Francisco Air Basin	Annual	2018	339.67	391.45	461.36	586.09	73.44	84.35	100.26	126.61
AB	San Francisco Air Basin	Annual	2019	339.78	391.75	461.34	586.50	73.50	84.48	100.35	126.84
AB	San Francisco Air Basin	Annual	2020	339.88	392.02	461.33	586.89	73.60	84.63	100.45	127.06
AB	San Francisco Air Basin	Annual	2021	339.96	392.27	461.33	587.20	73.68	84.79	100.54	127.24
AB	San Francisco Air Basin	Annual	2022	339.99	392.48	461.33	587.46	73.74	84.93	100.62	127.39
AB	San Francisco Air Basin	Annual	2023	339.99	392.64	461.32	587.66	73.78	85.06	100.69	127.56
AB	San Francisco Air Basin	Annual	2024	339.97	392.77	461.30	587.83	73.80	85.17	100.75	127.71
AB	San Francisco Air Basin	Annual	2025	339.96	392.89	461.29	588.00	73.82	85.27	100.80	127.87
AB	San Francisco Air Basin	Annual	2026	339.97	393.04	461.27	588.18	73.85	85.38	100.84	128.01
AB	San Francisco Air Basin	Annual	2027	339.98	393.18	461.25	588.35	73.86	85.47	100.87	128.15
AB	San Francisco Air Basin	Annual	2028	339.97	393.32	461.22	588.52	73.87	85.55	100.89	128.26
AB	San Francisco Air Basin	Annual	2029	339.96	393.47	461.20	588.68	73.88	85.63	100.91	128.38
AB	San Francisco Air Basin	Annual	2030	339.95	393.63	461.17	588.85	73.89	85.71	100.92	128.49
AB	San Francisco Air Basin	Annual	2031	339.94	393.79	461.16	589.02	73.89	85.79	100.93	128.59
AB	San Francisco Air Basin	Annual	2032	339.94	393.94	461.14	589.20	73.90	85.86	100.94	128.69
AB	San Francisco Air Basin	Annual	2033	339.93	394.08	461.13	589.36	73.90	85.92	100.95	128.79
AB	San Francisco Air Basin	Annual	2034	339.92	394.20	461.11	589.50	73.90	85.98	100.95	128.87
AB	San Francisco Air Basin	Annual	2035	339.91	394.31	461.10	589.63	73.91	86.04	100.96	128.96
AB	San Francisco Air Basin	Summer	2010	364.35	415.41	496.51	625.57	72.94	84.37	99.40	124.69
AB	San Francisco Air Basin	Summer	2011	364.64	416.20	496.43	625.96	72.98	84.25	99.50	124.89
AB	San Francisco Air Basin	Summer	2012	364.93	416.94	496.39	626.48	73.02	84.19	99.62	125.11
AB	San Francisco Air Basin	Summer	2013	365.22	417.62	496.38	627.12	73.09	84.17	99.74	125.34
AB	San Francisco Air Basin	Summer	2014	365.47	418.22	496.42	627.81	73.15	84.17	99.85	125.59
AB	San Francisco Air Basin	Summer	2015	365.72	418.79	496.47	628.57	73.23	84.19	99.96	125.85
AB	San Francisco Air Basin	Summer	2016	365.95	419.33	496.52	629.31	73.32	84.24	100.07	126.10
AB	San Francisco Air Basin	Summer	2017	366.11	419.82	496.57	630.02	73.38	84.29	100.17	126.36
AB	San Francisco Air Basin	Summer	2018	366.24	420.25	496.57	630.62	73.44	84.35	100.26	126.61
AB	San Francisco Air Basin	Summer	2019	366.36	420.66	496.58	631.14	73.50	84.48	100.35	126.84
AB	San Francisco Air Basin	Summer	2020	366.46	421.03	496.57	631.62	73.60	84.63	100.45	127.06
AB	San Francisco Air Basin	Summer	2021	366.53	421.37	496.57	632.00	73.68	84.79	100.54	127.24
AB	San Francisco Air Basin	Summer	2022	366.57	421.66	496.56	632.33	73.74	84.93	100.62	127.39
AB	San Francisco Air Basin	Summer	2023	366.57	421.90	496.54	632.57	73.78	85.06	100.69	127.56
AB	San Francisco Air Basin	Summer	2024	366.55	422.10	496.51	632.76	73.80	85.17	100.75	127.71
AB	San Francisco Air Basin	Summer	2025	366.54	422.28	496.49	632.95	73.82	85.27	100.80	127.87
AB	San Francisco Air Basin	Summer	2026	366.55	422.48	496.46	633.14	73.85	85.38	100.84	128.01
AB	San Francisco Air Basin	Summer	2027	366.56	422.68	496.44	633.31	73.86	85.47	100.87	128.15
AB	San Francisco Air Basin	Summer	2028	366.57	422.88	496.41	633.48	73.87	85.55	100.89	128.26
AB	San Francisco Air Basin	Summer	2029	366.56	423.10	496.39	633.66	73.88	85.63	100.91	128.38
AB	San Francisco Air Basin	Summer	2030	366.56	423.32	496.37	633.84	73.89	85.71	100.92	128.49
AB	San Francisco Air Basin	Summer	2031	366.56	423.55	496.35	634.03	73.89	85.79	100.93	128.59
AB	San Francisco Air Basin	Summer	2032	366.55	423.75	496.34	634.22	73.90	85.86	100.94	128.69
AB	San Francisco Air Basin	Summer	2033	366.55	423.93	496.32	634.41	73.90	85.92	100.95	128.79
AB	San Francisco Air Basin	Summer	2034	366.54	424.09	496.31	634.58	73.90	85.98	100.95	128.87
AB	San Francisco Air Basin	Summer	2035	366.54	424.21	496.30	634.74	73.91	86.04	100.96	128.96
AB	San Francisco Air Basin	Winter	2010	335.32	385.28	457.66	576.18	72.94	84.37	99.40	124.69
AB	San Francisco Air Basin	Winter	2011	335.43	385.63	457.52	576.68	72.98	84.25	99.50	124.89
AB	San Francisco Air Basin	Winter	2012	335.56	386.01	457.41	577.23	73.02	84.19	99.62	125.11
AB	San Francisco Air Basin	Winter	2013	335.74	386.37	457.32	577.82	73.09	84.17	99.74	125.34
AB	San Francisco Air Basin	Winter	2014	335.90	386.72	457.25	578.40	73.15	84.17	99.85	125.59
AB	San Francisco Air Basin	Winter	2015	336.08	387.07	457.20	579.00	73.23	84.19	99.96	125.85
AB	San Francisco Air Basin	Winter	2016	336.26	387.41	457.16	579.56	73.32	84.24	100.07	126.10
AB	San Francisco Air Basin	Winter	2017	336.39	387.73	457.12	580.10	73.38	84.29	100.17	126.36

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	San Francisco Air Basin	Winter	2018	336.52	388.00	457.08	580.55	73.44	84.35	100.26	126.61
AB	San Francisco Air Basin	Winter	2019	336.63	388.27	457.06	580.95	73.50	84.48	100.35	126.84
AB	San Francisco Air Basin	Winter	2020	336.73	388.53	457.05	581.32	73.60	84.63	100.45	127.06
AB	San Francisco Air Basin	Winter	2021	336.80	388.77	457.05	581.62	73.68	84.79	100.54	127.24
AB	San Francisco Air Basin	Winter	2022	336.84	388.97	457.05	581.88	73.74	84.93	100.62	127.39
AB	San Francisco Air Basin	Winter	2023	336.84	389.12	457.04	582.08	73.78	85.06	100.69	127.56
AB	San Francisco Air Basin	Winter	2024	336.82	389.24	457.02	582.24	73.80	85.17	100.75	127.71
AB	San Francisco Air Basin	Winter	2025	336.81	389.35	457.00	582.41	73.82	85.27	100.80	127.87
AB	San Francisco Air Basin	Winter	2026	336.82	389.49	456.98	582.60	73.85	85.38	100.84	128.01
AB	San Francisco Air Basin	Winter	2027	336.82	389.62	456.96	582.77	73.86	85.47	100.87	128.15
AB	San Francisco Air Basin	Winter	2028	336.82	389.76	456.94	582.93	73.87	85.55	100.89	128.26
AB	San Francisco Air Basin	Winter	2029	336.80	389.90	456.91	583.10	73.88	85.63	100.91	128.38
AB	San Francisco Air Basin	Winter	2030	336.79	390.05	456.89	583.27	73.89	85.71	100.92	128.49
AB	San Francisco Air Basin	Winter	2031	336.78	390.20	456.87	583.44	73.89	85.79	100.93	128.59
AB	San Francisco Air Basin	Winter	2032	336.77	390.35	456.86	583.61	73.90	85.86	100.94	128.69
AB	San Francisco Air Basin	Winter	2033	336.76	390.48	456.84	583.76	73.90	85.92	100.95	128.79
AB	San Francisco Air Basin	Winter	2034	336.76	390.60	456.82	583.90	73.90	85.98	100.95	128.87
AB	San Francisco Air Basin	Winter	2035	336.74	390.70	456.80	584.02	73.91	86.04	100.96	128.96
AB	San Joaquin Valley Air Basin	Annual	2010	344.53	395.23	472.07	594.91	73.37	85.32	100.36	124.58
AB	San Joaquin Valley Air Basin	Annual	2011	344.79	396.17	471.84	595.64	73.37	85.05	100.34	124.82
AB	San Joaquin Valley Air Basin	Annual	2012	344.82	396.68	471.40	596.04	73.39	84.87	100.35	125.07
AB	San Joaquin Valley Air Basin	Annual	2013	345.18	397.48	471.50	597.02	73.43	84.73	100.37	125.34
AB	San Joaquin Valley Air Basin	Annual	2014	345.41	398.05	471.41	597.81	73.45	84.65	100.38	125.62
AB	San Joaquin Valley Air Basin	Annual	2015	346.20	399.25	472.24	599.62	73.50	84.60	100.40	125.92
AB	San Joaquin Valley Air Basin	Annual	2016	346.40	399.70	472.19	600.39	73.57	84.57	100.44	126.22
AB	San Joaquin Valley Air Basin	Annual	2017	346.53	400.08	472.14	601.11	73.60	84.54	100.44	126.51
AB	San Joaquin Valley Air Basin	Annual	2018	347.36	401.34	473.27	602.98	73.63	84.56	100.47	126.79
AB	San Joaquin Valley Air Basin	Annual	2019	347.49	401.71	473.29	603.59	73.68	84.67	100.51	127.05
AB	San Joaquin Valley Air Basin	Annual	2020	347.59	402.04	473.30	604.13	73.77	84.83	100.58	127.28
AB	San Joaquin Valley Air Basin	Annual	2021	347.55	402.06	472.98	604.31	73.84	84.99	100.66	127.48
AB	San Joaquin Valley Air Basin	Annual	2022	347.60	402.27	472.95	604.67	73.89	85.13	100.73	127.64
AB	San Joaquin Valley Air Basin	Annual	2023	347.63	402.44	472.93	604.96	73.92	85.25	100.78	127.82
AB	San Joaquin Valley Air Basin	Annual	2024	347.85	403.02	473.49	605.81	73.94	85.37	100.83	127.98
AB	San Joaquin Valley Air Basin	Annual	2025	347.86	403.16	473.48	606.02	73.96	85.47	100.86	128.14
AB	San Joaquin Valley Air Basin	Annual	2026	348.71	404.36	474.80	607.63	73.98	85.57	100.89	128.28
AB	San Joaquin Valley Air Basin	Annual	2027	348.72	404.49	474.74	607.80	73.99	85.65	100.92	128.41
AB	San Joaquin Valley Air Basin	Annual	2028	348.73	404.62	474.69	607.97	74.00	85.74	100.93	128.53
AB	San Joaquin Valley Air Basin	Annual	2029	348.73	404.75	474.65	608.15	74.01	85.81	100.94	128.63
AB	San Joaquin Valley Air Basin	Annual	2030	348.73	404.88	474.61	608.33	74.01	85.88	100.95	128.74
AB	San Joaquin Valley Air Basin	Annual	2031	348.73	405.01	474.57	608.48	74.02	85.95	100.96	128.83
AB	San Joaquin Valley Air Basin	Annual	2032	348.73	405.13	474.53	608.63	74.02	86.02	100.96	128.92
AB	San Joaquin Valley Air Basin	Annual	2033	348.73	405.23	474.50	608.78	74.02	86.07	100.97	129.00
AB	San Joaquin Valley Air Basin	Annual	2034	348.73	405.32	474.47	608.91	74.03	86.12	100.97	129.08
AB	San Joaquin Valley Air Basin	Annual	2035	348.74	405.39	474.45	609.03	74.03	86.17	100.98	129.15
AB	San Joaquin Valley Air Basin	Summer	2010	378.79	430.24	517.12	652.23	73.37	85.32	100.36	124.58
AB	San Joaquin Valley Air Basin	Summer	2011	379.32	432.07	517.21	652.97	73.37	85.05	100.34	124.82
AB	San Joaquin Valley Air Basin	Summer	2012	379.51	433.17	516.96	653.39	73.39	84.87	100.35	125.07
AB	San Joaquin Valley Air Basin	Summer	2013	380.02	434.48	517.27	654.53	73.43	84.73	100.37	125.34
AB	San Joaquin Valley Air Basin	Summer	2014	380.35	435.44	517.38	655.51	73.45	84.65	100.38	125.62
AB	San Joaquin Valley Air Basin	Summer	2015	381.29	437.04	518.48	657.68	73.50	84.60	100.40	125.92
AB	San Joaquin Valley Air Basin	Summer	2016	381.55	437.73	518.55	658.71	73.57	84.57	100.44	126.22
AB	San Joaquin Valley Air Basin	Summer	2017	381.72	438.33	518.60	659.66	73.60	84.54	100.44	126.51
AB	San Joaquin Valley Air Basin	Summer	2018	382.62	439.83	519.89	661.84	73.63	84.56	100.47	126.79
AB	San Joaquin Valley Air Basin	Summer	2019	382.75	440.33	519.93	662.62	73.68	84.67	100.51	127.05

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	San Joaquin Valley Air Basin	Summer	2020	382.86	440.77	519.95	663.30	73.77	84.83	100.58	127.28
AB	San Joaquin Valley Air Basin	Summer	2021	382.80	440.85	519.59	663.56	73.84	84.99	100.66	127.48
AB	San Joaquin Valley Air Basin	Summer	2022	382.85	441.14	519.54	664.00	73.89	85.13	100.73	127.64
AB	San Joaquin Valley Air Basin	Summer	2023	382.88	441.39	519.49	664.34	73.92	85.25	100.78	127.82
AB	San Joaquin Valley Air Basin	Summer	2024	383.14	442.10	520.11	665.29	73.94	85.37	100.83	127.98
AB	San Joaquin Valley Air Basin	Summer	2025	383.16	442.31	520.10	665.52	73.96	85.47	100.86	128.14
AB	San Joaquin Valley Air Basin	Summer	2026	384.09	443.68	521.54	667.23	73.98	85.57	100.89	128.28
AB	San Joaquin Valley Air Basin	Summer	2027	384.11	443.88	521.48	667.40	73.99	85.65	100.92	128.41
AB	San Joaquin Valley Air Basin	Summer	2028	384.12	444.07	521.44	667.58	74.00	85.74	100.93	128.53
AB	San Joaquin Valley Air Basin	Summer	2029	384.14	444.28	521.41	667.76	74.01	85.81	100.94	128.63
AB	San Joaquin Valley Air Basin	Summer	2030	384.15	444.48	521.38	667.96	74.01	85.88	100.95	128.74
AB	San Joaquin Valley Air Basin	Summer	2031	384.15	444.67	521.34	668.13	74.02	85.95	100.96	128.83
AB	San Joaquin Valley Air Basin	Summer	2032	384.15	444.83	521.31	668.31	74.02	86.02	100.96	128.92
AB	San Joaquin Valley Air Basin	Summer	2033	384.15	444.97	521.29	668.48	74.02	86.07	100.97	129.00
AB	San Joaquin Valley Air Basin	Summer	2034	384.16	445.10	521.27	668.66	74.03	86.12	100.97	129.08
AB	San Joaquin Valley Air Basin	Summer	2035	384.17	445.18	521.25	668.82	74.03	86.17	100.98	129.15
AB	San Joaquin Valley Air Basin	Winter	2010	331.71	382.09	455.17	573.36	73.37	85.32	100.36	124.58
AB	San Joaquin Valley Air Basin	Winter	2011	331.86	382.70	454.81	574.06	73.37	85.05	100.34	124.82
AB	San Joaquin Valley Air Basin	Winter	2012	331.84	382.98	454.30	574.45	73.39	84.87	100.35	125.07
AB	San Joaquin Valley Air Basin	Winter	2013	332.15	383.59	454.32	575.38	73.43	84.73	100.37	125.34
AB	San Joaquin Valley Air Basin	Winter	2014	332.34	384.02	454.16	576.11	73.45	84.65	100.38	125.62
AB	San Joaquin Valley Air Basin	Winter	2015	333.08	385.08	454.89	577.78	73.50	84.60	100.40	125.92
AB	San Joaquin Valley Air Basin	Winter	2016	333.25	385.43	454.79	578.46	73.57	84.57	100.44	126.22
AB	San Joaquin Valley Air Basin	Winter	2017	333.38	385.74	454.71	579.09	73.60	84.54	100.44	126.51
AB	San Joaquin Valley Air Basin	Winter	2018	334.17	386.90	455.78	580.83	73.63	84.56	100.47	126.79
AB	San Joaquin Valley Air Basin	Winter	2019	334.29	387.21	455.78	581.37	73.68	84.67	100.51	127.05
AB	San Joaquin Valley Air Basin	Winter	2020	334.40	387.49	455.79	581.86	73.77	84.83	100.58	127.28
AB	San Joaquin Valley Air Basin	Winter	2021	334.35	387.50	455.49	582.01	73.84	84.99	100.66	127.48
AB	San Joaquin Valley Air Basin	Winter	2022	334.40	387.67	455.46	582.34	73.89	85.13	100.73	127.64
AB	San Joaquin Valley Air Basin	Winter	2023	334.42	387.81	455.44	582.61	73.92	85.25	100.78	127.82
AB	San Joaquin Valley Air Basin	Winter	2024	334.63	388.34	455.98	583.42	73.94	85.37	100.83	127.98
AB	San Joaquin Valley Air Basin	Winter	2025	334.64	388.44	455.97	583.62	73.96	85.47	100.86	128.14
AB	San Joaquin Valley Air Basin	Winter	2026	335.45	389.58	457.23	585.17	73.98	85.57	100.89	128.28
AB	San Joaquin Valley Air Basin	Winter	2027	335.46	389.68	457.17	585.33	73.99	85.65	100.92	128.41
AB	San Joaquin Valley Air Basin	Winter	2028	335.46	389.78	457.12	585.50	74.00	85.74	100.93	128.53
AB	San Joaquin Valley Air Basin	Winter	2029	335.46	389.88	457.06	585.66	74.01	85.81	100.94	128.63
AB	San Joaquin Valley Air Basin	Winter	2030	335.45	389.98	457.02	585.83	74.01	85.88	100.95	128.74
AB	San Joaquin Valley Air Basin	Winter	2031	335.45	390.08	456.97	585.97	74.02	85.95	100.96	128.83
AB	San Joaquin Valley Air Basin	Winter	2032	335.44	390.18	456.93	586.11	74.02	86.02	100.96	128.92
AB	San Joaquin Valley Air Basin	Winter	2033	335.44	390.27	456.89	586.24	74.02	86.07	100.97	129.00
AB	San Joaquin Valley Air Basin	Winter	2034	335.44	390.34	456.86	586.35	74.03	86.12	100.97	129.08
AB	San Joaquin Valley Air Basin	Winter	2035	335.44	390.41	456.83	586.45	74.03	86.17	100.98	129.15
AB	South Central Coast Air Basin	Annual	2010	324.53	377.77	444.25	560.00	73.41	85.83	99.73	124.93
AB	South Central Coast Air Basin	Annual	2011	324.89	378.44	444.27	561.13	73.37	85.48	99.79	125.12
AB	South Central Coast Air Basin	Annual	2012	324.92	378.63	443.93	561.68	73.33	85.24	99.87	125.34
AB	South Central Coast Air Basin	Annual	2013	325.01	378.79	443.66	562.26	73.34	85.04	99.96	125.57
AB	South Central Coast Air Basin	Annual	2014	325.07	378.92	443.44	562.79	73.32	84.87	100.05	125.81
AB	South Central Coast Air Basin	Annual	2015	326.78	381.05	445.42	566.18	73.34	84.73	100.13	126.06
AB	South Central Coast Air Basin	Annual	2016	326.90	381.17	445.27	566.68	73.38	84.63	100.22	126.32
AB	South Central Coast Air Basin	Annual	2017	326.98	381.27	445.14	567.15	73.40	84.54	100.30	126.57
AB	South Central Coast Air Basin	Annual	2018	327.04	381.38	445.03	567.56	73.42	84.52	100.38	126.81
AB	South Central Coast Air Basin	Annual	2019	327.63	382.30	445.61	568.85	73.45	84.60	100.46	127.04
AB	South Central Coast Air Basin	Annual	2020	327.67	382.43	445.52	569.15	73.55	84.73	100.55	127.25
AB	South Central Coast Air Basin	Annual	2021	328.64	383.97	446.70	571.13	73.62	84.87	100.64	127.42

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	South Central Coast Air Basin	Annual	2022	328.67	384.16	446.72	571.43	73.67	85.01	100.71	127.55
AB	South Central Coast Air Basin	Annual	2023	328.66	384.31	446.73	571.67	73.70	85.12	100.77	127.71
AB	South Central Coast Air Basin	Annual	2024	329.35	385.50	447.67	573.19	73.72	85.23	100.81	127.86
AB	South Central Coast Air Basin	Annual	2025	329.34	385.64	447.71	573.44	73.74	85.32	100.85	128.01
AB	South Central Coast Air Basin	Annual	2026	328.64	385.23	446.70	572.50	73.76	85.42	100.88	128.15
AB	South Central Coast Air Basin	Annual	2027	328.66	385.40	446.71	572.75	73.77	85.50	100.91	128.27
AB	South Central Coast Air Basin	Annual	2028	328.66	385.57	446.73	573.00	73.78	85.58	100.92	128.39
AB	South Central Coast Air Basin	Annual	2029	328.65	385.74	446.73	573.24	73.79	85.65	100.93	128.50
AB	South Central Coast Air Basin	Annual	2030	328.64	385.91	446.73	573.47	73.79	85.72	100.94	128.60
AB	South Central Coast Air Basin	Annual	2031	329.38	387.27	447.77	575.16	73.80	85.79	100.95	128.70
AB	South Central Coast Air Basin	Annual	2032	329.33	387.45	447.79	575.40	73.80	85.85	100.95	128.79
AB	South Central Coast Air Basin	Annual	2033	329.30	387.60	447.82	575.61	73.81	85.91	100.96	128.88
AB	South Central Coast Air Basin	Annual	2034	329.26	387.75	447.85	575.81	73.81	85.97	100.97	128.96
AB	South Central Coast Air Basin	Annual	2035	329.23	387.87	447.88	576.00	73.81	86.02	100.97	129.03
AB	South Central Coast Air Basin	Summer	2010	336.60	390.99	459.84	580.17	73.41	85.83	99.73	124.93
AB	South Central Coast Air Basin	Summer	2011	337.01	391.88	459.94	581.29	73.37	85.48	99.79	125.12
AB	South Central Coast Air Basin	Summer	2012	337.08	392.23	459.65	581.83	73.33	85.24	99.87	125.34
AB	South Central Coast Air Basin	Summer	2013	337.19	392.52	459.44	582.43	73.34	85.04	99.96	125.57
AB	South Central Coast Air Basin	Summer	2014	337.26	392.75	459.26	582.99	73.32	84.87	100.05	125.81
AB	South Central Coast Air Basin	Summer	2015	339.04	395.04	461.36	586.53	73.34	84.73	100.13	126.06
AB	South Central Coast Air Basin	Summer	2016	339.17	395.24	461.23	587.08	73.38	84.63	100.22	126.32
AB	South Central Coast Air Basin	Summer	2017	339.26	395.40	461.12	587.60	73.40	84.54	100.30	126.57
AB	South Central Coast Air Basin	Summer	2018	339.31	395.56	461.01	588.05	73.42	84.52	100.38	126.81
AB	South Central Coast Air Basin	Summer	2019	339.92	396.55	461.61	589.41	73.45	84.60	100.46	127.04
AB	South Central Coast Air Basin	Summer	2020	339.95	396.69	461.51	589.72	73.55	84.73	100.55	127.25
AB	South Central Coast Air Basin	Summer	2021	340.97	398.35	462.76	591.83	73.62	84.87	100.64	127.42
AB	South Central Coast Air Basin	Summer	2022	340.99	398.58	462.80	592.18	73.67	85.01	100.71	127.55
AB	South Central Coast Air Basin	Summer	2023	340.98	398.77	462.82	592.45	73.70	85.12	100.77	127.71
AB	South Central Coast Air Basin	Summer	2024	341.72	400.07	463.83	594.09	73.72	85.23	100.81	127.86
AB	South Central Coast Air Basin	Summer	2025	341.71	400.25	463.89	594.37	73.74	85.32	100.85	128.01
AB	South Central Coast Air Basin	Summer	2026	341.01	399.87	462.89	593.44	73.76	85.42	100.88	128.15
AB	South Central Coast Air Basin	Summer	2027	341.03	400.07	462.92	593.72	73.77	85.50	100.91	128.27
AB	South Central Coast Air Basin	Summer	2028	341.04	400.28	462.96	594.00	73.78	85.58	100.92	128.39
AB	South Central Coast Air Basin	Summer	2029	341.04	400.49	462.98	594.26	73.79	85.65	100.93	128.50
AB	South Central Coast Air Basin	Summer	2030	341.03	400.70	463.00	594.53	73.79	85.72	100.94	128.60
AB	South Central Coast Air Basin	Summer	2031	341.80	402.15	464.10	596.30	73.80	85.79	100.95	128.70
AB	South Central Coast Air Basin	Summer	2032	341.75	402.36	464.14	596.56	73.80	85.85	100.95	128.79
AB	South Central Coast Air Basin	Summer	2033	341.71	402.55	464.19	596.80	73.81	85.91	100.96	128.88
AB	South Central Coast Air Basin	Summer	2034	341.67	402.72	464.23	597.03	73.81	85.97	100.97	128.96
AB	South Central Coast Air Basin	Summer	2035	341.63	402.86	464.29	597.25	73.81	86.02	100.97	129.03
AB	South Central Coast Air Basin	Winter	2010	322.51	375.46	441.66	556.61	73.41	85.83	99.73	124.93
AB	South Central Coast Air Basin	Winter	2011	322.86	376.09	441.67	557.75	73.37	85.48	99.79	125.12
AB	South Central Coast Air Basin	Winter	2012	322.89	376.25	441.32	558.31	73.33	85.24	99.87	125.34
AB	South Central Coast Air Basin	Winter	2013	322.98	376.39	441.05	558.88	73.34	85.04	99.96	125.57
AB	South Central Coast Air Basin	Winter	2014	323.04	376.50	440.82	559.41	73.32	84.87	100.05	125.81
AB	South Central Coast Air Basin	Winter	2015	324.74	378.60	442.79	562.78	73.34	84.73	100.13	126.06
AB	South Central Coast Air Basin	Winter	2016	324.86	378.71	442.63	563.27	73.38	84.63	100.22	126.32
AB	South Central Coast Air Basin	Winter	2017	324.94	378.80	442.50	563.74	73.40	84.54	100.30	126.57
AB	South Central Coast Air Basin	Winter	2018	325.00	378.91	442.39	564.14	73.42	84.52	100.38	126.81
AB	South Central Coast Air Basin	Winter	2019	325.59	379.82	442.98	565.43	73.45	84.60	100.46	127.04
AB	South Central Coast Air Basin	Winter	2020	325.64	379.94	442.89	565.73	73.55	84.73	100.55	127.25
AB	South Central Coast Air Basin	Winter	2021	326.60	381.46	444.05	567.67	73.62	84.87	100.64	127.42
AB	South Central Coast Air Basin	Winter	2022	326.62	381.64	444.06	567.96	73.67	85.01	100.71	127.55
AB	South Central Coast Air Basin	Winter	2023	326.61	381.78	444.07	568.19	73.70	85.12	100.77	127.71

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	South Central Coast Air Basin	Winter	2024	327.29	382.96	444.99	569.69	73.72	85.23	100.81	127.86
AB	South Central Coast Air Basin	Winter	2025	327.28	383.09	445.02	569.93	73.74	85.32	100.85	128.01
AB	South Central Coast Air Basin	Winter	2026	326.58	382.67	444.01	568.98	73.76	85.42	100.88	128.15
AB	South Central Coast Air Basin	Winter	2027	326.60	382.83	444.02	569.23	73.77	85.50	100.91	128.27
AB	South Central Coast Air Basin	Winter	2028	326.60	382.99	444.03	569.47	73.78	85.58	100.92	128.39
AB	South Central Coast Air Basin	Winter	2029	326.59	383.15	444.03	569.70	73.79	85.65	100.93	128.50
AB	South Central Coast Air Basin	Winter	2030	326.57	383.32	444.02	569.92	73.79	85.72	100.94	128.60
AB	South Central Coast Air Basin	Winter	2031	327.31	384.66	445.05	571.59	73.80	85.79	100.95	128.70
AB	South Central Coast Air Basin	Winter	2032	327.27	384.82	445.06	571.82	73.80	85.85	100.95	128.79
AB	South Central Coast Air Basin	Winter	2033	327.23	384.97	445.09	572.03	73.81	85.91	100.96	128.88
AB	South Central Coast Air Basin	Winter	2034	327.19	385.12	445.11	572.22	73.81	85.97	100.97	128.96
AB	South Central Coast Air Basin	Winter	2035	327.16	385.23	445.14	572.40	73.81	86.02	100.97	129.03
AB	South Coast Air Basin	Annual	2010	358.01	409.57	488.94	615.29	73.21	84.03	99.45	125.25
AB	South Coast Air Basin	Annual	2011	358.53	410.51	489.32	616.38	73.23	83.98	99.55	125.45
AB	South Coast Air Basin	Annual	2012	358.66	410.89	489.10	616.67	73.27	83.98	99.67	125.65
AB	South Coast Air Basin	Annual	2013	358.86	411.36	488.94	617.04	73.33	83.99	99.79	125.87
AB	South Coast Air Basin	Annual	2014	359.00	411.69	488.76	617.38	73.38	84.02	99.90	126.09
AB	South Coast Air Basin	Annual	2015	359.50	412.41	489.04	618.24	73.44	84.07	100.01	126.32
AB	South Coast Air Basin	Annual	2016	359.61	412.71	488.91	618.65	73.51	84.14	100.12	126.56
AB	South Coast Air Basin	Annual	2017	359.68	413.00	488.78	619.05	73.56	84.22	100.22	126.80
AB	South Coast Air Basin	Annual	2018	359.73	413.24	488.67	619.35	73.60	84.30	100.30	127.02
AB	South Coast Air Basin	Annual	2019	359.08	412.70	487.70	618.60	73.64	84.46	100.39	127.22
AB	South Coast Air Basin	Annual	2020	359.10	412.90	487.57	618.80	73.73	84.62	100.49	127.42
AB	South Coast Air Basin	Annual	2021	359.91	414.09	488.60	620.48	73.80	84.79	100.58	127.58
AB	South Coast Air Basin	Annual	2022	359.87	414.26	488.52	620.66	73.85	84.93	100.66	127.72
AB	South Coast Air Basin	Annual	2023	359.81	414.38	488.43	620.76	73.88	85.06	100.72	127.88
AB	South Coast Air Basin	Annual	2024	361.76	416.80	491.03	624.19	73.90	85.17	100.77	128.02
AB	South Coast Air Basin	Annual	2025	361.68	416.85	490.94	624.25	73.92	85.28	100.82	128.15
AB	South Coast Air Basin	Annual	2026	361.64	416.95	490.83	624.31	73.94	85.38	100.85	128.29
AB	South Coast Air Basin	Annual	2027	361.59	417.03	490.72	624.36	73.95	85.47	100.88	128.40
AB	South Coast Air Basin	Annual	2028	361.53	417.11	490.61	624.40	73.96	85.56	100.90	128.50
AB	South Coast Air Basin	Annual	2029	361.47	417.20	490.50	624.44	73.97	85.64	100.92	128.60
AB	South Coast Air Basin	Annual	2030	361.40	417.29	490.39	624.48	73.97	85.72	100.93	128.70
AB	South Coast Air Basin	Annual	2031	361.77	417.91	490.85	625.21	73.98	85.79	100.94	128.79
AB	South Coast Air Basin	Annual	2032	361.71	418.00	490.76	625.26	73.98	85.87	100.95	128.87
AB	South Coast Air Basin	Annual	2033	361.64	418.06	490.66	625.29	73.99	85.93	100.96	128.95
AB	South Coast Air Basin	Annual	2034	361.58	418.11	490.56	625.31	73.99	85.99	100.96	129.02
AB	South Coast Air Basin	Annual	2035	361.51	418.13	490.47	625.31	73.99	86.05	100.97	129.09
AB	South Coast Air Basin	Summer	2010	376.35	428.81	513.13	646.60	73.21	84.03	99.45	125.25
AB	South Coast Air Basin	Summer	2011	376.98	430.14	513.64	647.75	73.23	83.98	99.55	125.45
AB	South Coast Air Basin	Summer	2012	377.17	430.80	513.51	648.09	73.27	83.98	99.67	125.65
AB	South Coast Air Basin	Summer	2013	377.43	431.52	513.45	648.57	73.33	83.99	99.79	125.87
AB	South Coast Air Basin	Summer	2014	377.60	432.03	513.36	649.01	73.38	84.02	99.90	126.09
AB	South Coast Air Basin	Summer	2015	378.16	432.94	513.77	650.06	73.44	84.07	100.01	126.32
AB	South Coast Air Basin	Summer	2016	378.32	433.38	513.73	650.64	73.51	84.14	100.12	126.56
AB	South Coast Air Basin	Summer	2017	378.43	433.80	513.68	651.19	73.56	84.22	100.22	126.80
AB	South Coast Air Basin	Summer	2018	378.50	434.15	513.63	651.64	73.60	84.30	100.30	127.02
AB	South Coast Air Basin	Summer	2019	377.87	433.68	512.68	651.00	73.64	84.46	100.39	127.22
AB	South Coast Air Basin	Summer	2020	377.93	434.00	512.61	651.36	73.73	84.62	100.49	127.42
AB	South Coast Air Basin	Summer	2021	378.82	435.34	513.74	653.23	73.80	84.79	100.58	127.58
AB	South Coast Air Basin	Summer	2022	378.81	435.60	513.67	653.48	73.85	84.93	100.66	127.72
AB	South Coast Air Basin	Summer	2023	378.77	435.80	513.60	653.65	73.88	85.06	100.72	127.88
AB	South Coast Air Basin	Summer	2024	380.89	438.46	516.40	657.36	73.90	85.17	100.77	128.02
AB	South Coast Air Basin	Summer	2025	380.84	438.60	516.33	657.46	73.92	85.28	100.82	128.15

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AB	South Coast Air Basin	Summer	2026	380.82	438.77	516.25	657.54	73.94	85.38	100.85	128.29
AB	South Coast Air Basin	Summer	2027	380.79	438.92	516.17	657.62	73.95	85.47	100.88	128.40
AB	South Coast Air Basin	Summer	2028	380.76	439.07	516.09	657.69	73.96	85.56	100.90	128.50
AB	South Coast Air Basin	Summer	2029	380.72	439.23	516.01	657.76	73.97	85.64	100.92	128.60
AB	South Coast Air Basin	Summer	2030	380.68	439.39	515.93	657.84	73.97	85.72	100.93	128.70
AB	South Coast Air Basin	Summer	2031	381.11	440.14	516.48	658.70	73.98	85.79	100.94	128.79
AB	South Coast Air Basin	Summer	2032	381.07	440.30	516.43	658.81	73.98	85.87	100.95	128.87
AB	South Coast Air Basin	Summer	2033	381.03	440.42	516.37	658.90	73.99	85.93	100.96	128.95
AB	South Coast Air Basin	Summer	2034	380.99	440.52	516.30	658.98	73.99	85.99	100.96	129.02
AB	South Coast Air Basin	Summer	2035	380.95	440.59	516.24	659.05	73.99	86.05	100.97	129.09
AB	South Coast Air Basin	Winter	2010	352.27	403.73	481.40	605.84	73.21	84.03	99.45	125.25
AB	South Coast Air Basin	Winter	2011	352.77	404.58	481.76	606.95	73.23	83.98	99.55	125.45
AB	South Coast Air Basin	Winter	2012	352.88	404.90	481.53	607.26	73.27	83.98	99.67	125.65
AB	South Coast Air Basin	Winter	2013	353.07	405.31	481.36	607.63	73.33	83.99	99.79	125.87
AB	South Coast Air Basin	Winter	2014	353.20	405.60	481.16	607.96	73.38	84.02	99.90	126.09
AB	South Coast Air Basin	Winter	2015	353.69	406.27	481.43	608.80	73.44	84.07	100.01	126.32
AB	South Coast Air Basin	Winter	2016	353.79	406.55	481.28	609.19	73.51	84.14	100.12	126.56
AB	South Coast Air Basin	Winter	2017	353.86	406.81	481.14	609.56	73.56	84.22	100.22	126.80
AB	South Coast Air Basin	Winter	2018	353.91	407.02	481.03	609.84	73.60	84.30	100.30	127.02
AB	South Coast Air Basin	Winter	2019	353.27	406.48	480.07	609.09	73.64	84.46	100.39	127.22
AB	South Coast Air Basin	Winter	2020	353.29	406.67	479.94	609.28	73.73	84.62	100.49	127.42
AB	South Coast Air Basin	Winter	2021	354.09	407.82	480.96	610.92	73.80	84.79	100.58	127.58
AB	South Coast Air Basin	Winter	2022	354.06	407.97	480.88	611.08	73.85	84.93	100.66	127.72
AB	South Coast Air Basin	Winter	2023	354.00	408.08	480.79	611.18	73.88	85.06	100.72	127.88
AB	South Coast Air Basin	Winter	2024	355.90	410.43	483.35	614.53	73.90	85.17	100.77	128.02
AB	South Coast Air Basin	Winter	2025	355.83	410.47	483.26	614.59	73.92	85.28	100.82	128.15
AB	South Coast Air Basin	Winter	2026	355.79	410.55	483.16	614.66	73.94	85.38	100.85	128.29
AB	South Coast Air Basin	Winter	2027	355.74	410.63	483.05	614.71	73.95	85.47	100.88	128.40
AB	South Coast Air Basin	Winter	2028	355.68	410.70	482.94	614.76	73.96	85.56	100.90	128.50
AB	South Coast Air Basin	Winter	2029	355.62	410.78	482.83	614.80	73.97	85.64	100.92	128.60
AB	South Coast Air Basin	Winter	2030	355.55	410.85	482.72	614.84	73.97	85.72	100.93	128.70
AB	South Coast Air Basin	Winter	2031	355.91	411.44	483.17	615.55	73.98	85.79	100.94	128.79
AB	South Coast Air Basin	Winter	2032	355.85	411.52	483.08	615.60	73.98	85.87	100.95	128.87
AB	South Coast Air Basin	Winter	2033	355.79	411.58	482.99	615.63	73.99	85.93	100.96	128.95
AB	South Coast Air Basin	Winter	2034	355.73	411.62	482.89	615.65	73.99	85.99	100.96	129.02
AB	South Coast Air Basin	Winter	2035	355.66	411.64	482.80	615.65	73.99	86.05	100.97	129.09
AD	Amador County APCD	Annual	2010	304.65	351.36	416.56	520.77	74.42	88.71	101.28	124.30
AD	Amador County APCD	Annual	2011	304.66	351.60	416.18	521.37	74.22	87.90	101.12	124.48
AD	Amador County APCD	Annual	2012	304.71	351.83	415.89	522.08	74.04	87.30	101.03	124.70
AD	Amador County APCD	Annual	2013	304.79	351.99	415.66	522.86	73.92	86.76	100.95	124.94
AD	Amador County APCD	Annual	2014	304.86	352.15	415.48	523.60	73.78	86.37	100.90	125.21
AD	Amador County APCD	Annual	2015	304.98	352.29	415.35	524.39	73.76	85.97	100.78	125.49
AD	Amador County APCD	Annual	2016	305.08	352.44	415.24	525.15	73.74	85.71	100.76	125.78
AD	Amador County APCD	Annual	2017	305.13	352.54	415.14	525.85	73.67	85.39	100.65	126.08
AD	Amador County APCD	Annual	2018	305.17	352.64	415.05	526.46	73.63	85.21	100.62	126.36
AD	Amador County APCD	Annual	2019	305.20	352.73	414.99	526.98	73.61	85.07	100.64	126.62
AD	Amador County APCD	Annual	2020	305.25	352.84	414.93	527.43	73.70	85.10	100.70	126.87
AD	Amador County APCD	Annual	2021	305.27	352.92	414.87	527.78	73.76	85.17	100.76	127.07
AD	Amador County APCD	Annual	2022	305.25	352.98	414.81	528.07	73.79	85.24	100.80	127.21
AD	Amador County APCD	Annual	2023	305.17	353.01	414.75	528.29	73.79	85.29	100.83	127.40
AD	Amador County APCD	Annual	2024	305.08	353.05	414.70	528.47	73.77	85.35	100.86	127.58
AD	Amador County APCD	Annual	2025	305.03	353.13	414.66	528.63	73.78	85.43	100.90	127.75
AD	Amador County APCD	Annual	2026	305.04	353.24	414.62	528.79	73.80	85.53	100.92	127.91
AD	Amador County APCD	Annual	2027	305.05	353.36	414.57	528.95	73.81	85.62	100.94	128.05

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Amador County APCD	Annual	2028	305.05	353.48	414.54	529.12	73.82	85.70	100.96	128.19
AD	Amador County APCD	Annual	2029	305.04	353.60	414.51	529.29	73.83	85.78	100.96	128.32
AD	Amador County APCD	Annual	2030	305.03	353.72	414.47	529.46	73.83	85.85	100.96	128.44
AD	Amador County APCD	Annual	2031	305.02	353.84	414.44	529.67	73.83	85.93	100.97	128.56
AD	Amador County APCD	Annual	2032	305.02	353.95	414.42	529.88	73.84	85.99	100.97	128.68
AD	Amador County APCD	Annual	2033	305.01	354.05	414.40	530.07	73.84	86.06	100.98	128.78
AD	Amador County APCD	Annual	2034	305.01	354.14	414.39	530.24	73.85	86.11	100.98	128.88
AD	Amador County APCD	Annual	2035	305.01	354.21	414.37	530.39	73.85	86.16	100.98	128.97
AD	Amador County APCD	Summer	2010	335.39	381.81	456.97	570.78	74.42	88.71	101.28	124.30
AD	Amador County APCD	Summer	2011	335.69	383.05	456.90	571.49	74.22	87.90	101.12	124.48
AD	Amador County APCD	Summer	2012	335.97	384.03	456.85	572.39	74.04	87.30	101.03	124.70
AD	Amador County APCD	Summer	2013	336.23	384.81	456.85	573.45	73.92	86.76	100.95	124.94
AD	Amador County APCD	Summer	2014	336.43	385.43	456.87	574.47	73.78	86.37	100.90	125.21
AD	Amador County APCD	Summer	2015	336.65	385.97	456.94	575.58	73.76	85.97	100.78	125.49
AD	Amador County APCD	Summer	2016	336.82	386.42	456.98	576.67	73.74	85.71	100.76	125.78
AD	Amador County APCD	Summer	2017	336.90	386.79	457.00	577.65	73.67	85.39	100.65	126.08
AD	Amador County APCD	Summer	2018	336.95	387.08	456.98	578.50	73.63	85.21	100.62	126.36
AD	Amador County APCD	Summer	2019	336.99	387.35	456.95	579.23	73.61	85.07	100.64	126.62
AD	Amador County APCD	Summer	2020	337.02	387.58	456.90	579.85	73.70	85.10	100.70	126.87
AD	Amador County APCD	Summer	2021	337.03	387.78	456.85	580.34	73.76	85.17	100.76	127.07
AD	Amador County APCD	Summer	2022	337.01	387.96	456.79	580.75	73.79	85.24	100.80	127.21
AD	Amador County APCD	Summer	2023	336.93	388.10	456.74	581.05	73.79	85.29	100.83	127.40
AD	Amador County APCD	Summer	2024	336.85	388.24	456.69	581.30	73.77	85.35	100.86	127.58
AD	Amador County APCD	Summer	2025	336.80	388.38	456.65	581.51	73.78	85.43	100.90	127.75
AD	Amador County APCD	Summer	2026	336.83	388.54	456.62	581.67	73.80	85.53	100.92	127.91
AD	Amador County APCD	Summer	2027	336.85	388.70	456.59	581.84	73.81	85.62	100.94	128.05
AD	Amador County APCD	Summer	2028	336.86	388.88	456.57	582.04	73.82	85.70	100.96	128.19
AD	Amador County APCD	Summer	2029	336.87	389.06	456.55	582.24	73.83	85.78	100.96	128.32
AD	Amador County APCD	Summer	2030	336.87	389.25	456.52	582.44	73.83	85.85	100.96	128.44
AD	Amador County APCD	Summer	2031	336.87	389.46	456.50	582.71	73.83	85.93	100.97	128.56
AD	Amador County APCD	Summer	2032	336.87	389.62	456.48	582.98	73.84	85.99	100.97	128.68
AD	Amador County APCD	Summer	2033	336.86	389.77	456.47	583.23	73.84	86.06	100.98	128.78
AD	Amador County APCD	Summer	2034	336.85	389.90	456.45	583.45	73.85	86.11	100.98	128.88
AD	Amador County APCD	Summer	2035	336.85	389.98	456.44	583.66	73.85	86.16	100.98	128.97
AD	Amador County APCD	Winter	2010	295.29	342.08	404.24	505.53	74.42	88.71	101.28	124.30
AD	Amador County APCD	Winter	2011	295.21	342.02	403.78	506.10	74.22	87.90	101.12	124.48
AD	Amador County APCD	Winter	2012	295.18	342.01	403.41	506.75	74.04	87.30	101.03	124.70
AD	Amador County APCD	Winter	2013	295.22	341.99	403.11	507.45	73.92	86.76	100.95	124.94
AD	Amador County APCD	Winter	2014	295.24	342.01	402.87	508.11	73.78	86.37	100.90	125.21
AD	Amador County APCD	Winter	2015	295.33	342.02	402.67	508.79	73.76	85.97	100.78	125.49
AD	Amador County APCD	Winter	2016	295.41	342.08	402.52	509.45	73.74	85.71	100.76	125.78
AD	Amador County APCD	Winter	2017	295.45	342.10	402.38	510.06	73.67	85.39	100.65	126.08
AD	Amador County APCD	Winter	2018	295.49	342.14	402.28	510.60	73.63	85.21	100.62	126.36
AD	Amador County APCD	Winter	2019	295.52	342.18	402.21	511.06	73.61	85.07	100.64	126.62
AD	Amador County APCD	Winter	2020	295.57	342.25	402.15	511.46	73.70	85.10	100.70	126.87
AD	Amador County APCD	Winter	2021	295.59	342.29	402.08	511.77	73.76	85.17	100.76	127.07
AD	Amador County APCD	Winter	2022	295.58	342.32	402.02	512.02	73.79	85.24	100.80	127.21
AD	Amador County APCD	Winter	2023	295.49	342.32	401.95	512.21	73.79	85.29	100.83	127.40
AD	Amador County APCD	Winter	2024	295.40	342.33	401.90	512.37	73.77	85.35	100.86	127.58
AD	Amador County APCD	Winter	2025	295.35	342.39	401.87	512.52	73.78	85.43	100.90	127.75
AD	Amador County APCD	Winter	2026	295.36	342.49	401.82	512.68	73.80	85.53	100.92	127.91
AD	Amador County APCD	Winter	2027	295.36	342.59	401.77	512.84	73.81	85.62	100.94	128.05
AD	Amador County APCD	Winter	2028	295.35	342.69	401.74	513.00	73.82	85.70	100.96	128.19
AD	Amador County APCD	Winter	2029	295.34	342.79	401.70	513.16	73.83	85.78	100.96	128.32

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Amador County APCD	Winter	2030	295.32	342.89	401.65	513.32	73.83	85.85	100.96	128.44
AD	Amador County APCD	Winter	2031	295.32	342.99	401.63	513.51	73.83	85.93	100.97	128.56
AD	Amador County APCD	Winter	2032	295.32	343.09	401.61	513.70	73.84	85.99	100.97	128.68
AD	Amador County APCD	Winter	2033	295.31	343.17	401.59	513.88	73.84	86.06	100.98	128.78
AD	Amador County APCD	Winter	2034	295.31	343.24	401.57	514.03	73.85	86.11	100.98	128.88
AD	Amador County APCD	Winter	2035	295.30	343.31	401.56	514.17	73.85	86.16	100.98	128.97
AD	Antelope Valley APCD	Annual	2010	345.89	395.46	472.51	595.78	73.36	84.38	99.72	125.11
AD	Antelope Valley APCD	Annual	2011	348.87	399.45	476.26	601.40	73.38	84.28	99.78	125.35
AD	Antelope Valley APCD	Annual	2012	349.04	400.17	476.18	602.17	73.40	84.27	99.87	125.60
AD	Antelope Valley APCD	Annual	2013	350.49	402.29	477.89	605.21	73.42	84.25	99.97	125.87
AD	Antelope Valley APCD	Annual	2014	350.66	402.85	477.86	605.99	73.46	84.24	100.05	126.14
AD	Antelope Valley APCD	Annual	2015	355.63	408.92	484.44	615.13	73.50	84.26	100.16	126.42
AD	Antelope Valley APCD	Annual	2016	355.79	409.41	484.43	615.82	73.56	84.33	100.25	126.69
AD	Antelope Valley APCD	Annual	2017	355.91	409.84	484.42	616.46	73.60	84.36	100.32	126.95
AD	Antelope Valley APCD	Annual	2018	356.00	410.20	484.40	617.00	73.63	84.42	100.38	127.20
AD	Antelope Valley APCD	Annual	2019	357.84	412.61	486.79	620.54	73.67	84.58	100.46	127.42
AD	Antelope Valley APCD	Annual	2020	357.92	412.97	486.78	620.97	73.75	84.76	100.55	127.62
AD	Antelope Valley APCD	Annual	2021	360.97	416.79	490.85	626.51	73.82	84.94	100.64	127.79
AD	Antelope Valley APCD	Annual	2022	361.00	417.09	490.84	626.80	73.87	85.10	100.71	127.92
AD	Antelope Valley APCD	Annual	2023	361.00	417.34	490.82	627.02	73.90	85.24	100.77	128.08
AD	Antelope Valley APCD	Annual	2024	361.28	417.87	491.15	627.65	73.91	85.37	100.81	128.23
AD	Antelope Valley APCD	Annual	2025	361.29	418.06	491.14	627.84	73.93	85.48	100.86	128.37
AD	Antelope Valley APCD	Annual	2026	361.30	418.26	491.12	628.01	73.95	85.58	100.89	128.50
AD	Antelope Valley APCD	Annual	2027	361.31	418.44	491.10	628.17	73.97	85.67	100.91	128.62
AD	Antelope Valley APCD	Annual	2028	361.32	418.63	491.09	628.32	73.97	85.76	100.93	128.72
AD	Antelope Valley APCD	Annual	2029	361.32	418.81	491.07	628.47	73.98	85.84	100.94	128.81
AD	Antelope Valley APCD	Annual	2030	361.31	418.99	491.06	628.62	73.98	85.91	100.95	128.90
AD	Antelope Valley APCD	Annual	2031	366.94	425.72	498.73	638.58	73.99	85.98	100.96	128.98
AD	Antelope Valley APCD	Annual	2032	366.93	425.88	498.72	638.71	73.99	86.05	100.97	129.05
AD	Antelope Valley APCD	Annual	2033	366.93	426.03	498.71	638.83	74.00	86.10	100.98	129.12
AD	Antelope Valley APCD	Annual	2034	366.92	426.15	498.70	638.94	74.00	86.15	100.98	129.18
AD	Antelope Valley APCD	Annual	2035	366.92	426.26	498.69	639.04	74.00	86.20	100.99	129.24
AD	Antelope Valley APCD	Summer	2010	381.87	431.89	519.76	655.58	73.36	84.38	99.72	125.11
AD	Antelope Valley APCD	Summer	2011	385.34	436.89	524.09	661.69	73.38	84.28	99.78	125.35
AD	Antelope Valley APCD	Summer	2012	385.66	438.19	524.18	662.56	73.40	84.27	99.87	125.60
AD	Antelope Valley APCD	Summer	2013	387.37	440.97	526.26	666.03	73.42	84.25	99.97	125.87
AD	Antelope Valley APCD	Summer	2014	387.63	441.94	526.42	667.04	73.46	84.24	100.05	126.14
AD	Antelope Valley APCD	Summer	2015	393.20	448.92	533.87	677.32	73.50	84.26	100.16	126.42
AD	Antelope Valley APCD	Summer	2016	393.41	449.67	534.00	678.24	73.56	84.33	100.25	126.69
AD	Antelope Valley APCD	Summer	2017	393.56	450.33	534.08	679.07	73.60	84.36	100.32	126.95
AD	Antelope Valley APCD	Summer	2018	393.65	450.86	534.11	679.75	73.63	84.42	100.38	127.20
AD	Antelope Valley APCD	Summer	2019	395.68	453.61	536.75	683.71	73.67	84.58	100.46	127.42
AD	Antelope Valley APCD	Summer	2020	395.75	454.07	536.73	684.25	73.75	84.76	100.55	127.62
AD	Antelope Valley APCD	Summer	2021	399.16	458.42	541.24	690.46	73.82	84.94	100.64	127.79
AD	Antelope Valley APCD	Summer	2022	399.20	458.86	541.22	690.83	73.87	85.10	100.71	127.92
AD	Antelope Valley APCD	Summer	2023	399.21	459.24	541.20	691.10	73.90	85.24	100.77	128.08
AD	Antelope Valley APCD	Summer	2024	399.46	459.85	541.48	691.72	73.91	85.37	100.81	128.23
AD	Antelope Valley APCD	Summer	2025	399.48	460.16	541.47	691.93	73.93	85.48	100.86	128.37
AD	Antelope Valley APCD	Summer	2026	399.50	460.45	541.44	692.11	73.95	85.58	100.89	128.50
AD	Antelope Valley APCD	Summer	2027	399.52	460.73	541.42	692.27	73.97	85.67	100.91	128.62
AD	Antelope Valley APCD	Summer	2028	399.53	461.00	541.41	692.44	73.97	85.76	100.93	128.72
AD	Antelope Valley APCD	Summer	2029	399.53	461.26	541.39	692.59	73.98	85.84	100.94	128.81
AD	Antelope Valley APCD	Summer	2030	399.53	461.50	541.38	692.75	73.98	85.91	100.95	128.90
AD	Antelope Valley APCD	Summer	2031	405.74	468.99	549.84	703.69	73.99	85.98	100.96	128.98

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Antelope Valley APCD	Summer	2032	405.72	469.23	549.82	703.80	73.99	86.05	100.97	129.05
AD	Antelope Valley APCD	Summer	2033	405.71	469.41	549.81	703.92	74.00	86.10	100.98	129.12
AD	Antelope Valley APCD	Summer	2034	405.70	469.58	549.80	704.05	74.00	86.15	100.98	129.18
AD	Antelope Valley APCD	Summer	2035	405.69	469.70	549.79	704.16	74.00	86.20	100.99	129.24
AD	Antelope Valley APCD	Winter	2010	335.14	384.58	458.40	577.92	73.36	84.38	99.72	125.11
AD	Antelope Valley APCD	Winter	2011	337.98	388.27	461.98	583.39	73.38	84.28	99.78	125.35
AD	Antelope Valley APCD	Winter	2012	338.10	388.82	461.84	584.13	73.40	84.27	99.87	125.60
AD	Antelope Valley APCD	Winter	2013	339.47	390.73	463.43	587.03	73.42	84.25	99.97	125.87
AD	Antelope Valley APCD	Winter	2014	339.61	391.17	463.35	587.75	73.46	84.24	100.05	126.14
AD	Antelope Valley APCD	Winter	2015	344.39	396.95	469.65	596.52	73.50	84.26	100.16	126.42
AD	Antelope Valley APCD	Winter	2016	344.53	397.37	469.60	597.15	73.56	84.33	100.25	126.69
AD	Antelope Valley APCD	Winter	2017	344.65	397.72	469.56	597.73	73.60	84.36	100.32	126.95
AD	Antelope Valley APCD	Winter	2018	344.74	398.03	469.53	598.23	73.63	84.42	100.38	127.20
AD	Antelope Valley APCD	Winter	2019	346.52	400.35	471.84	601.64	73.67	84.58	100.46	127.42
AD	Antelope Valley APCD	Winter	2020	346.60	400.67	471.84	602.04	73.75	84.76	100.55	127.62
AD	Antelope Valley APCD	Winter	2021	349.54	404.32	475.76	607.37	73.82	84.94	100.64	127.79
AD	Antelope Valley APCD	Winter	2022	349.57	404.59	475.75	607.63	73.87	85.10	100.71	127.92
AD	Antelope Valley APCD	Winter	2023	349.56	404.80	475.74	607.83	73.90	85.24	100.77	128.08
AD	Antelope Valley APCD	Winter	2024	349.86	405.31	476.10	608.49	73.91	85.37	100.81	128.23
AD	Antelope Valley APCD	Winter	2025	349.87	405.47	476.09	608.67	73.93	85.48	100.86	128.37
AD	Antelope Valley APCD	Winter	2026	349.88	405.64	476.07	608.84	73.95	85.58	100.89	128.50
AD	Antelope Valley APCD	Winter	2027	349.89	405.80	476.06	609.00	73.97	85.67	100.91	128.62
AD	Antelope Valley APCD	Winter	2028	349.89	405.96	476.04	609.15	73.97	85.76	100.93	128.72
AD	Antelope Valley APCD	Winter	2029	349.89	406.12	476.02	609.30	73.98	85.84	100.94	128.81
AD	Antelope Valley APCD	Winter	2030	349.88	406.27	476.01	609.44	73.98	85.91	100.95	128.90
AD	Antelope Valley APCD	Winter	2031	355.33	412.77	483.44	619.10	73.99	85.98	100.96	128.98
AD	Antelope Valley APCD	Winter	2032	355.33	412.92	483.43	619.24	73.99	86.05	100.97	129.05
AD	Antelope Valley APCD	Winter	2033	355.33	413.05	483.42	619.36	74.00	86.10	100.98	129.12
AD	Antelope Valley APCD	Winter	2034	355.32	413.16	483.41	619.46	74.00	86.15	100.98	129.18
AD	Antelope Valley APCD	Winter	2035	355.32	413.26	483.40	619.56	74.00	86.20	100.99	129.24
AD	Bay Area AQMD	Annual	2010	338.39	388.50	461.86	581.62	72.94	84.37	99.40	124.69
AD	Bay Area AQMD	Annual	2011	338.52	388.90	461.72	582.11	72.98	84.25	99.50	124.89
AD	Bay Area AQMD	Annual	2012	338.67	389.32	461.62	582.66	73.02	84.19	99.62	125.11
AD	Bay Area AQMD	Annual	2013	338.86	389.72	461.54	583.26	73.09	84.17	99.74	125.34
AD	Bay Area AQMD	Annual	2014	339.03	390.09	461.49	583.86	73.15	84.17	99.85	125.59
AD	Bay Area AQMD	Annual	2015	339.22	390.46	461.45	584.47	73.23	84.19	99.96	125.85
AD	Bay Area AQMD	Annual	2016	339.41	390.83	461.42	585.05	73.32	84.24	100.07	126.10
AD	Bay Area AQMD	Annual	2017	339.54	391.17	461.39	585.61	73.38	84.29	100.17	126.36
AD	Bay Area AQMD	Annual	2018	339.67	391.45	461.36	586.09	73.44	84.35	100.26	126.61
AD	Bay Area AQMD	Annual	2019	339.78	391.75	461.34	586.50	73.50	84.48	100.35	126.84
AD	Bay Area AQMD	Annual	2020	339.88	392.02	461.33	586.89	73.60	84.63	100.45	127.06
AD	Bay Area AQMD	Annual	2021	339.96	392.27	461.33	587.20	73.68	84.79	100.54	127.24
AD	Bay Area AQMD	Annual	2022	339.99	392.48	461.33	587.46	73.74	84.93	100.62	127.39
AD	Bay Area AQMD	Annual	2023	339.99	392.64	461.32	587.66	73.78	85.06	100.69	127.56
AD	Bay Area AQMD	Annual	2024	339.97	392.77	461.30	587.83	73.80	85.17	100.75	127.71
AD	Bay Area AQMD	Annual	2025	339.96	392.89	461.29	588.00	73.82	85.27	100.80	127.87
AD	Bay Area AQMD	Annual	2026	339.97	393.04	461.27	588.18	73.85	85.38	100.84	128.01
AD	Bay Area AQMD	Annual	2027	339.98	393.18	461.25	588.35	73.86	85.47	100.87	128.15
AD	Bay Area AQMD	Annual	2028	339.97	393.32	461.22	588.52	73.87	85.55	100.89	128.26
AD	Bay Area AQMD	Annual	2029	339.96	393.47	461.20	588.68	73.88	85.63	100.91	128.38
AD	Bay Area AQMD	Annual	2030	339.95	393.63	461.17	588.85	73.89	85.71	100.92	128.49
AD	Bay Area AQMD	Annual	2031	339.94	393.79	461.16	589.02	73.89	85.79	100.93	128.59
AD	Bay Area AQMD	Annual	2032	339.94	393.94	461.14	589.20	73.90	85.86	100.94	128.69
AD	Bay Area AQMD	Annual	2033	339.93	394.08	461.13	589.36	73.90	85.92	100.95	128.79

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Bay Area AQMD	Annual	2034	339.92	394.20	461.11	589.50	73.90	85.98	100.95	128.87
AD	Bay Area AQMD	Annual	2035	339.91	394.31	461.10	589.63	73.91	86.04	100.96	128.96
AD	Bay Area AQMD	Summer	2010	364.35	415.41	496.51	625.57	72.94	84.37	99.40	124.69
AD	Bay Area AQMD	Summer	2011	364.64	416.20	496.43	625.96	72.98	84.25	99.50	124.89
AD	Bay Area AQMD	Summer	2012	364.93	416.94	496.39	626.48	73.02	84.19	99.62	125.11
AD	Bay Area AQMD	Summer	2013	365.22	417.62	496.38	627.12	73.09	84.17	99.74	125.34
AD	Bay Area AQMD	Summer	2014	365.47	418.22	496.42	627.81	73.15	84.17	99.85	125.59
AD	Bay Area AQMD	Summer	2015	365.72	418.79	496.47	628.57	73.23	84.19	99.96	125.85
AD	Bay Area AQMD	Summer	2016	365.95	419.33	496.52	629.31	73.32	84.24	100.07	126.10
AD	Bay Area AQMD	Summer	2017	366.11	419.82	496.57	630.02	73.38	84.29	100.17	126.36
AD	Bay Area AQMD	Summer	2018	366.24	420.25	496.57	630.62	73.44	84.35	100.26	126.61
AD	Bay Area AQMD	Summer	2019	366.36	420.66	496.58	631.14	73.50	84.48	100.35	126.84
AD	Bay Area AQMD	Summer	2020	366.46	421.03	496.57	631.62	73.60	84.63	100.45	127.06
AD	Bay Area AQMD	Summer	2021	366.53	421.37	496.57	632.00	73.68	84.79	100.54	127.24
AD	Bay Area AQMD	Summer	2022	366.57	421.66	496.56	632.33	73.74	84.93	100.62	127.39
AD	Bay Area AQMD	Summer	2023	366.57	421.90	496.54	632.57	73.78	85.06	100.69	127.56
AD	Bay Area AQMD	Summer	2024	366.55	422.10	496.51	632.76	73.80	85.17	100.75	127.71
AD	Bay Area AQMD	Summer	2025	366.54	422.28	496.49	632.95	73.82	85.27	100.80	127.87
AD	Bay Area AQMD	Summer	2026	366.55	422.48	496.46	633.14	73.85	85.38	100.84	128.01
AD	Bay Area AQMD	Summer	2027	366.56	422.68	496.44	633.31	73.86	85.47	100.87	128.15
AD	Bay Area AQMD	Summer	2028	366.57	422.88	496.41	633.48	73.87	85.55	100.89	128.26
AD	Bay Area AQMD	Summer	2029	366.56	423.10	496.39	633.66	73.88	85.63	100.91	128.38
AD	Bay Area AQMD	Summer	2030	366.56	423.32	496.37	633.84	73.89	85.71	100.92	128.49
AD	Bay Area AQMD	Summer	2031	366.56	423.55	496.35	634.03	73.89	85.79	100.93	128.59
AD	Bay Area AQMD	Summer	2032	366.55	423.75	496.34	634.22	73.90	85.86	100.94	128.69
AD	Bay Area AQMD	Summer	2033	366.55	423.93	496.32	634.41	73.90	85.92	100.95	128.79
AD	Bay Area AQMD	Summer	2034	366.54	424.09	496.31	634.58	73.90	85.98	100.95	128.87
AD	Bay Area AQMD	Summer	2035	366.54	424.21	496.30	634.74	73.91	86.04	100.96	128.96
AD	Bay Area AQMD	Winter	2010	335.32	385.28	457.66	576.18	72.94	84.37	99.40	124.69
AD	Bay Area AQMD	Winter	2011	335.43	385.63	457.52	576.68	72.98	84.25	99.50	124.89
AD	Bay Area AQMD	Winter	2012	335.56	386.01	457.41	577.23	73.02	84.19	99.62	125.11
AD	Bay Area AQMD	Winter	2013	335.74	386.37	457.32	577.82	73.09	84.17	99.74	125.34
AD	Bay Area AQMD	Winter	2014	335.90	386.72	457.25	578.40	73.15	84.17	99.85	125.59
AD	Bay Area AQMD	Winter	2015	336.08	387.07	457.20	579.00	73.23	84.19	99.96	125.85
AD	Bay Area AQMD	Winter	2016	336.26	387.41	457.16	579.56	73.32	84.24	100.07	126.10
AD	Bay Area AQMD	Winter	2017	336.39	387.73	457.12	580.10	73.38	84.29	100.17	126.36
AD	Bay Area AQMD	Winter	2018	336.52	388.00	457.08	580.55	73.44	84.35	100.26	126.61
AD	Bay Area AQMD	Winter	2019	336.63	388.27	457.06	580.95	73.50	84.48	100.35	126.84
AD	Bay Area AQMD	Winter	2020	336.73	388.53	457.05	581.32	73.60	84.63	100.45	127.06
AD	Bay Area AQMD	Winter	2021	336.80	388.77	457.05	581.62	73.68	84.79	100.54	127.24
AD	Bay Area AQMD	Winter	2022	336.84	388.97	457.05	581.88	73.74	84.93	100.62	127.39
AD	Bay Area AQMD	Winter	2023	336.84	389.12	457.04	582.08	73.78	85.06	100.69	127.56
AD	Bay Area AQMD	Winter	2024	336.82	389.24	457.02	582.24	73.80	85.17	100.75	127.71
AD	Bay Area AQMD	Winter	2025	336.81	389.35	457.00	582.41	73.82	85.27	100.80	127.87
AD	Bay Area AQMD	Winter	2026	336.82	389.49	456.98	582.60	73.85	85.38	100.84	128.01
AD	Bay Area AQMD	Winter	2027	336.82	389.62	456.96	582.77	73.86	85.47	100.87	128.15
AD	Bay Area AQMD	Winter	2028	336.82	389.76	456.94	582.93	73.87	85.55	100.89	128.26
AD	Bay Area AQMD	Winter	2029	336.80	389.90	456.91	583.10	73.88	85.63	100.91	128.38
AD	Bay Area AQMD	Winter	2030	336.79	390.05	456.89	583.27	73.89	85.71	100.92	128.49
AD	Bay Area AQMD	Winter	2031	336.78	390.20	456.87	583.44	73.89	85.79	100.93	128.59
AD	Bay Area AQMD	Winter	2032	336.77	390.35	456.86	583.61	73.90	85.86	100.94	128.69
AD	Bay Area AQMD	Winter	2033	336.76	390.48	456.84	583.76	73.90	85.92	100.95	128.79
AD	Bay Area AQMD	Winter	2034	336.76	390.60	456.82	583.90	73.90	85.98	100.95	128.87
AD	Bay Area AQMD	Winter	2035	336.74	390.70	456.80	584.02	73.91	86.04	100.96	128.96

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Butte County APCD	Annual	2010	339.87	396.33	466.79	582.59	73.74	93.40	101.05	125.37
AD	Butte County APCD	Annual	2011	340.16	396.11	466.41	583.82	73.64	91.64	100.92	125.50
AD	Butte County APCD	Annual	2012	340.27	395.85	465.90	584.74	73.58	90.38	100.87	125.67
AD	Butte County APCD	Annual	2013	340.39	395.57	465.50	585.71	73.53	89.20	100.81	125.88
AD	Butte County APCD	Annual	2014	340.47	395.32	465.20	586.62	73.46	88.16	100.77	126.08
AD	Butte County APCD	Annual	2015	340.60	395.14	464.96	587.52	73.45	87.30	100.75	126.32
AD	Butte County APCD	Annual	2016	342.35	396.92	466.99	591.13	73.49	86.64	100.74	126.57
AD	Butte County APCD	Annual	2017	342.42	396.78	466.81	591.87	73.48	85.98	100.71	126.82
AD	Butte County APCD	Annual	2018	342.44	396.68	466.66	592.50	73.44	85.49	100.70	127.05
AD	Butte County APCD	Annual	2019	342.48	396.71	466.54	593.04	73.45	85.31	100.70	127.27
AD	Butte County APCD	Annual	2020	342.53	396.78	466.44	593.51	73.54	85.30	100.76	127.47
AD	Butte County APCD	Annual	2021	343.10	397.55	467.11	594.81	73.60	85.41	100.82	127.57
AD	Butte County APCD	Annual	2022	343.10	397.67	467.03	595.07	73.64	85.50	100.87	127.65
AD	Butte County APCD	Annual	2023	343.08	397.75	466.95	595.27	73.67	85.58	100.90	127.82
AD	Butte County APCD	Annual	2024	343.02	397.84	466.88	595.42	73.68	85.66	100.93	127.97
AD	Butte County APCD	Annual	2025	343.01	397.92	466.82	595.60	73.70	85.73	100.96	128.12
AD	Butte County APCD	Annual	2026	343.02	398.03	466.75	595.77	73.72	85.80	100.97	128.26
AD	Butte County APCD	Annual	2027	343.02	398.12	466.69	595.94	73.73	85.86	100.98	128.39
AD	Butte County APCD	Annual	2028	343.02	398.22	466.63	596.11	73.74	85.92	100.99	128.51
AD	Butte County APCD	Annual	2029	343.02	398.31	466.55	596.28	73.74	85.97	100.99	128.62
AD	Butte County APCD	Annual	2030	343.01	398.40	466.48	596.45	73.75	86.02	100.98	128.72
AD	Butte County APCD	Annual	2031	343.01	398.49	466.45	596.62	73.75	86.07	100.98	128.82
AD	Butte County APCD	Annual	2032	343.01	398.57	466.42	596.79	73.76	86.12	100.99	128.91
AD	Butte County APCD	Annual	2033	343.00	398.64	466.40	596.95	73.76	86.15	100.99	128.99
AD	Butte County APCD	Annual	2034	343.00	398.69	466.38	597.09	73.76	86.19	100.99	129.06
AD	Butte County APCD	Annual	2035	342.99	398.74	466.36	597.22	73.77	86.22	100.99	129.13
AD	Butte County APCD	Summer	2010	378.25	435.25	516.75	645.70	73.74	93.40	101.05	125.37
AD	Butte County APCD	Summer	2011	379.01	436.21	517.19	647.27	73.64	91.64	100.92	125.50
AD	Butte County APCD	Summer	2012	379.48	436.79	517.26	648.57	73.58	90.38	100.87	125.67
AD	Butte County APCD	Summer	2013	379.86	437.26	517.34	649.98	73.53	89.20	100.81	125.88
AD	Butte County APCD	Summer	2014	380.14	437.60	517.39	651.33	73.46	88.16	100.77	126.08
AD	Butte County APCD	Summer	2015	380.40	437.90	517.40	652.65	73.45	87.30	100.75	126.32
AD	Butte County APCD	Summer	2016	382.44	440.27	519.84	656.95	73.49	86.64	100.74	126.57
AD	Butte County APCD	Summer	2017	382.54	440.50	519.76	658.01	73.48	85.98	100.71	126.82
AD	Butte County APCD	Summer	2018	382.56	440.67	519.63	658.88	73.44	85.49	100.70	127.05
AD	Butte County APCD	Summer	2019	382.59	440.87	519.51	659.62	73.45	85.31	100.70	127.27
AD	Butte County APCD	Summer	2020	382.63	441.06	519.39	660.26	73.54	85.30	100.76	127.47
AD	Butte County APCD	Summer	2021	383.24	442.01	520.14	661.82	73.60	85.41	100.82	127.57
AD	Butte County APCD	Summer	2022	383.23	442.21	520.05	662.21	73.64	85.50	100.87	127.65
AD	Butte County APCD	Summer	2023	383.21	442.39	519.98	662.50	73.67	85.58	100.90	127.82
AD	Butte County APCD	Summer	2024	383.15	442.57	519.92	662.70	73.68	85.66	100.93	127.97
AD	Butte County APCD	Summer	2025	383.13	442.73	519.88	662.89	73.70	85.73	100.96	128.12
AD	Butte County APCD	Summer	2026	383.15	442.89	519.81	663.05	73.72	85.80	100.97	128.26
AD	Butte County APCD	Summer	2027	383.17	443.04	519.76	663.21	73.73	85.86	100.98	128.39
AD	Butte County APCD	Summer	2028	383.19	443.19	519.72	663.40	73.74	85.92	100.99	128.51
AD	Butte County APCD	Summer	2029	383.21	443.35	519.67	663.59	73.74	85.97	100.99	128.62
AD	Butte County APCD	Summer	2030	383.22	443.50	519.63	663.79	73.75	86.02	100.98	128.72
AD	Butte County APCD	Summer	2031	383.22	443.64	519.62	663.97	73.75	86.07	100.98	128.82
AD	Butte County APCD	Summer	2032	383.22	443.74	519.61	664.16	73.76	86.12	100.99	128.91
AD	Butte County APCD	Summer	2033	383.22	443.83	519.60	664.35	73.76	86.15	100.99	128.99
AD	Butte County APCD	Summer	2034	383.22	443.91	519.59	664.54	73.76	86.19	100.99	129.06
AD	Butte County APCD	Summer	2035	383.21	443.96	519.58	664.71	73.77	86.22	100.99	129.13
AD	Butte County APCD	Winter	2010	328.68	384.98	452.21	564.18	73.74	93.40	101.05	125.37
AD	Butte County APCD	Winter	2011	328.82	384.41	451.61	565.32	73.64	91.64	100.92	125.50

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Butte County APCD	Winter	2012	328.84	383.90	450.92	566.13	73.58	90.38	100.87	125.67
AD	Butte County APCD	Winter	2013	328.87	383.41	450.39	566.96	73.53	89.20	100.81	125.88
AD	Butte County APCD	Winter	2014	328.90	382.99	449.98	567.75	73.46	88.16	100.77	126.08
AD	Butte County APCD	Winter	2015	328.99	382.67	449.66	568.52	73.45	87.30	100.75	126.32
AD	Butte County APCD	Winter	2016	330.67	384.27	451.57	571.94	73.49	86.64	100.74	126.57
AD	Butte County APCD	Winter	2017	330.72	384.03	451.37	572.58	73.48	85.98	100.71	126.82
AD	Butte County APCD	Winter	2018	330.74	383.86	451.21	573.14	73.44	85.49	100.70	127.05
AD	Butte County APCD	Winter	2019	330.78	383.84	451.09	573.62	73.45	85.31	100.70	127.27
AD	Butte County APCD	Winter	2020	330.84	383.86	450.99	574.04	73.54	85.30	100.76	127.47
AD	Butte County APCD	Winter	2021	331.40	384.59	451.65	575.26	73.60	85.41	100.82	127.57
AD	Butte County APCD	Winter	2022	331.39	384.68	451.56	575.49	73.64	85.50	100.87	127.65
AD	Butte County APCD	Winter	2023	331.38	384.73	451.48	575.67	73.67	85.58	100.90	127.82
AD	Butte County APCD	Winter	2024	331.32	384.80	451.41	575.80	73.68	85.66	100.93	127.97
AD	Butte County APCD	Winter	2025	331.30	384.86	451.35	575.97	73.70	85.73	100.96	128.12
AD	Butte County APCD	Winter	2026	331.31	384.94	451.28	576.14	73.72	85.80	100.97	128.26
AD	Butte County APCD	Winter	2027	331.31	385.02	451.21	576.32	73.73	85.86	100.98	128.39
AD	Butte County APCD	Winter	2028	331.31	385.10	451.14	576.48	73.74	85.92	100.99	128.51
AD	Butte County APCD	Winter	2029	331.30	385.18	451.06	576.65	73.74	85.97	100.99	128.62
AD	Butte County APCD	Winter	2030	331.28	385.25	450.98	576.81	73.75	86.02	100.98	128.72
AD	Butte County APCD	Winter	2031	331.28	385.33	450.94	576.98	73.75	86.07	100.98	128.82
AD	Butte County APCD	Winter	2032	331.28	385.40	450.91	577.14	73.76	86.12	100.99	128.91
AD	Butte County APCD	Winter	2033	331.27	385.45	450.88	577.29	73.76	86.15	100.99	128.99
AD	Butte County APCD	Winter	2034	331.27	385.51	450.86	577.42	73.76	86.19	100.99	129.06
AD	Butte County APCD	Winter	2035	331.26	385.55	450.84	577.54	73.77	86.22	100.99	129.13
AD	Calaveras County APCD	Annual	2010	339.15	393.21	464.59	580.79	74.52	89.63	101.49	124.52
AD	Calaveras County APCD	Annual	2011	339.17	393.31	464.13	581.44	74.31	88.76	101.30	124.68
AD	Calaveras County APCD	Annual	2012	339.22	393.39	463.78	582.21	74.10	88.01	101.21	124.87
AD	Calaveras County APCD	Annual	2013	339.30	393.43	463.49	583.06	73.93	87.36	101.13	125.10
AD	Calaveras County APCD	Annual	2014	339.36	393.46	463.27	583.88	73.74	86.82	101.00	125.34
AD	Calaveras County APCD	Annual	2015	339.48	393.52	463.10	584.75	73.70	86.38	100.93	125.59
AD	Calaveras County APCD	Annual	2016	339.59	393.59	462.96	585.57	73.69	86.07	100.88	125.88
AD	Calaveras County APCD	Annual	2017	339.64	393.63	462.83	586.35	73.61	85.70	100.81	126.15
AD	Calaveras County APCD	Annual	2018	339.66	393.65	462.73	587.01	73.51	85.38	100.75	126.42
AD	Calaveras County APCD	Annual	2019	339.69	393.73	462.65	587.57	73.48	85.28	100.71	126.69
AD	Calaveras County APCD	Annual	2020	339.72	393.81	462.58	588.07	73.55	85.28	100.76	126.92
AD	Calaveras County APCD	Annual	2021	339.70	393.86	462.51	588.43	73.59	85.33	100.81	127.08
AD	Calaveras County APCD	Annual	2022	339.67	393.90	462.43	588.75	73.61	85.38	100.85	127.26
AD	Calaveras County APCD	Annual	2023	339.61	393.93	462.36	588.97	73.61	85.43	100.87	127.44
AD	Calaveras County APCD	Annual	2024	339.52	393.92	462.29	589.14	73.58	85.45	100.89	127.61
AD	Calaveras County APCD	Annual	2025	339.50	393.98	462.24	589.30	73.59	85.52	100.92	127.77
AD	Calaveras County APCD	Annual	2026	339.51	394.11	462.19	589.48	73.61	85.62	100.94	127.93
AD	Calaveras County APCD	Annual	2027	339.51	394.23	462.13	589.67	73.62	85.70	100.96	128.08
AD	Calaveras County APCD	Annual	2028	339.51	394.36	462.10	589.86	73.63	85.78	100.97	128.21
AD	Calaveras County APCD	Annual	2029	339.50	394.48	462.05	590.05	73.64	85.86	100.97	128.34
AD	Calaveras County APCD	Annual	2030	339.49	394.60	462.00	590.25	73.64	85.93	100.97	128.46
AD	Calaveras County APCD	Annual	2031	339.49	394.71	461.98	590.48	73.65	86.00	100.98	128.58
AD	Calaveras County APCD	Annual	2032	339.49	394.82	461.96	590.71	73.65	86.06	100.98	128.70
AD	Calaveras County APCD	Annual	2033	339.49	394.90	461.94	590.91	73.65	86.12	100.98	128.81
AD	Calaveras County APCD	Annual	2034	339.48	394.98	461.92	591.10	73.66	86.17	100.99	128.90
AD	Calaveras County APCD	Annual	2035	339.48	395.05	461.91	591.26	73.66	86.21	100.99	128.99
AD	Calaveras County APCD	Summer	2010	371.79	425.53	507.37	633.67	74.52	89.63	101.49	124.52
AD	Calaveras County APCD	Summer	2011	372.10	426.67	507.24	634.43	74.31	88.76	101.30	124.68
AD	Calaveras County APCD	Summer	2012	372.38	427.56	507.15	635.42	74.10	88.01	101.21	124.87
AD	Calaveras County APCD	Summer	2013	372.63	428.25	507.10	636.56	73.93	87.36	101.13	125.10

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Calaveras County APCD	Summer	2014	372.82	428.79	507.12	637.70	73.74	86.82	101.00	125.34
AD	Calaveras County APCD	Summer	2015	373.03	429.26	507.15	638.94	73.70	86.38	100.93	125.59
AD	Calaveras County APCD	Summer	2016	373.20	429.64	507.18	640.12	73.69	86.07	100.88	125.88
AD	Calaveras County APCD	Summer	2017	373.29	429.96	507.18	641.21	73.61	85.70	100.81	126.15
AD	Calaveras County APCD	Summer	2018	373.31	430.20	507.15	642.13	73.51	85.38	100.75	126.42
AD	Calaveras County APCD	Summer	2019	373.34	430.44	507.12	642.91	73.48	85.28	100.71	126.69
AD	Calaveras County APCD	Summer	2020	373.36	430.67	507.07	643.60	73.55	85.28	100.76	126.92
AD	Calaveras County APCD	Summer	2021	373.33	430.84	507.00	644.13	73.59	85.33	100.81	127.08
AD	Calaveras County APCD	Summer	2022	373.30	431.01	506.94	644.57	73.61	85.38	100.85	127.26
AD	Calaveras County APCD	Summer	2023	373.24	431.15	506.88	644.89	73.61	85.43	100.87	127.44
AD	Calaveras County APCD	Summer	2024	373.18	431.27	506.81	645.12	73.58	85.45	100.89	127.61
AD	Calaveras County APCD	Summer	2025	373.16	431.40	506.76	645.32	73.59	85.52	100.92	127.77
AD	Calaveras County APCD	Summer	2026	373.18	431.61	506.71	645.52	73.61	85.62	100.94	127.93
AD	Calaveras County APCD	Summer	2027	373.19	431.81	506.66	645.72	73.62	85.70	100.96	128.08
AD	Calaveras County APCD	Summer	2028	373.20	432.01	506.63	645.94	73.63	85.78	100.97	128.21
AD	Calaveras County APCD	Summer	2029	373.21	432.20	506.60	646.17	73.64	85.86	100.97	128.34
AD	Calaveras County APCD	Summer	2030	373.22	432.39	506.57	646.41	73.64	85.93	100.97	128.46
AD	Calaveras County APCD	Summer	2031	373.22	432.56	506.56	646.71	73.65	86.00	100.98	128.58
AD	Calaveras County APCD	Summer	2032	373.21	432.71	506.56	646.99	73.65	86.06	100.98	128.70
AD	Calaveras County APCD	Summer	2033	373.21	432.83	506.55	647.26	73.65	86.12	100.98	128.81
AD	Calaveras County APCD	Summer	2034	373.20	432.93	506.54	647.51	73.66	86.17	100.99	128.90
AD	Calaveras County APCD	Summer	2035	373.19	433.00	506.53	647.73	73.66	86.21	100.99	128.99
AD	Calaveras County APCD	Winter	2010	329.78	383.93	452.30	565.59	74.52	89.63	101.49	124.52
AD	Calaveras County APCD	Winter	2011	329.72	383.73	451.75	566.21	74.31	88.76	101.30	124.68
AD	Calaveras County APCD	Winter	2012	329.69	383.57	451.31	566.92	74.10	88.01	101.21	124.87
AD	Calaveras County APCD	Winter	2013	329.72	383.42	450.96	567.68	73.93	87.36	101.13	125.10
AD	Calaveras County APCD	Winter	2014	329.75	383.31	450.67	568.42	73.74	86.82	101.00	125.34
AD	Calaveras County APCD	Winter	2015	329.84	383.25	450.44	569.19	73.70	86.38	100.93	125.59
AD	Calaveras County APCD	Winter	2016	329.93	383.24	450.25	569.90	73.69	86.07	100.88	125.88
AD	Calaveras County APCD	Winter	2017	329.98	383.20	450.09	570.59	73.61	85.70	100.81	126.15
AD	Calaveras County APCD	Winter	2018	329.99	383.15	449.97	571.17	73.51	85.38	100.75	126.42
AD	Calaveras County APCD	Winter	2019	330.02	383.18	449.87	571.67	73.48	85.28	100.71	126.69
AD	Calaveras County APCD	Winter	2020	330.05	383.22	449.80	572.12	73.55	85.28	100.76	126.92
AD	Calaveras County APCD	Winter	2021	330.04	383.24	449.72	572.43	73.59	85.33	100.81	127.08
AD	Calaveras County APCD	Winter	2022	330.01	383.24	449.64	572.72	73.61	85.38	100.85	127.26
AD	Calaveras County APCD	Winter	2023	329.94	383.24	449.56	572.90	73.61	85.43	100.87	127.44
AD	Calaveras County APCD	Winter	2024	329.85	383.19	449.49	573.05	73.58	85.45	100.89	127.61
AD	Calaveras County APCD	Winter	2025	329.83	383.23	449.45	573.20	73.59	85.52	100.92	127.77
AD	Calaveras County APCD	Winter	2026	329.84	383.34	449.40	573.38	73.61	85.62	100.94	127.93
AD	Calaveras County APCD	Winter	2027	329.84	383.44	449.34	573.56	73.62	85.70	100.96	128.08
AD	Calaveras County APCD	Winter	2028	329.83	383.54	449.30	573.75	73.63	85.78	100.97	128.21
AD	Calaveras County APCD	Winter	2029	329.82	383.64	449.25	573.93	73.64	85.86	100.97	128.34
AD	Calaveras County APCD	Winter	2030	329.81	383.74	449.19	574.11	73.64	85.93	100.97	128.46
AD	Calaveras County APCD	Winter	2031	329.80	383.84	449.17	574.32	73.65	86.00	100.98	128.58
AD	Calaveras County APCD	Winter	2032	329.80	383.93	449.14	574.54	73.65	86.06	100.98	128.70
AD	Calaveras County APCD	Winter	2033	329.80	384.01	449.12	574.73	73.65	86.12	100.98	128.81
AD	Calaveras County APCD	Winter	2034	329.80	384.08	449.11	574.89	73.66	86.17	100.99	128.90
AD	Calaveras County APCD	Winter	2035	329.79	384.14	449.09	575.04	73.66	86.21	100.99	128.99
AD	Colusa County APCD	Annual	2010	336.15	393.71	462.59	577.05	73.02	94.44	100.85	124.61
AD	Colusa County APCD	Annual	2011	336.30	393.20	461.94	577.64	73.01	92.76	100.79	124.78
AD	Colusa County APCD	Annual	2012	336.46	392.86	461.43	578.32	73.01	91.49	100.76	124.99
AD	Colusa County APCD	Annual	2013	336.61	392.53	461.04	579.07	73.01	90.33	100.78	125.24
AD	Colusa County APCD	Annual	2014	336.76	392.14	460.74	579.85	73.01	89.10	100.78	125.48
AD	Colusa County APCD	Annual	2015	336.94	391.90	460.48	580.66	73.07	88.20	100.70	125.75

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Colusa County APCD	Annual	2016	337.08	391.55	460.28	581.44	73.11	87.13	100.69	126.03
AD	Colusa County APCD	Annual	2017	337.18	391.40	460.11	582.19	73.11	86.50	100.69	126.31
AD	Colusa County APCD	Annual	2018	337.27	391.20	459.97	582.84	73.14	85.83	100.67	126.58
AD	Colusa County APCD	Annual	2019	337.32	391.11	459.85	583.42	73.14	85.43	100.69	126.82
AD	Colusa County APCD	Annual	2020	337.37	391.06	459.75	583.92	73.23	85.29	100.77	127.05
AD	Colusa County APCD	Annual	2021	337.43	391.13	459.66	584.31	73.30	85.37	100.83	127.21
AD	Colusa County APCD	Annual	2022	337.40	391.19	459.57	584.63	73.33	85.43	100.88	127.34
AD	Colusa County APCD	Annual	2023	337.39	391.29	459.49	584.89	73.36	85.52	100.91	127.52
AD	Colusa County APCD	Annual	2024	337.37	391.34	459.41	585.10	73.37	85.59	100.94	127.69
AD	Colusa County APCD	Annual	2025	337.36	391.40	459.36	585.31	73.39	85.65	100.97	127.86
AD	Colusa County APCD	Annual	2026	337.37	391.51	459.27	585.53	73.41	85.73	100.99	128.02
AD	Colusa County APCD	Annual	2027	337.38	391.61	459.21	585.75	73.42	85.79	101.00	128.16
AD	Colusa County APCD	Annual	2028	337.39	391.73	459.15	585.97	73.43	85.86	101.01	128.30
AD	Colusa County APCD	Annual	2029	337.40	391.84	459.07	586.18	73.44	85.92	101.01	128.42
AD	Colusa County APCD	Annual	2030	337.38	391.95	458.99	586.40	73.44	85.97	101.00	128.54
AD	Colusa County APCD	Annual	2031	337.38	392.05	458.95	586.61	73.45	86.03	101.00	128.66
AD	Colusa County APCD	Annual	2032	337.38	392.15	458.92	586.83	73.45	86.08	101.00	128.77
AD	Colusa County APCD	Annual	2033	337.38	392.24	458.89	587.03	73.46	86.13	101.01	128.87
AD	Colusa County APCD	Annual	2034	337.37	392.31	458.85	587.21	73.46	86.17	101.01	128.96
AD	Colusa County APCD	Annual	2035	337.36	392.37	458.83	587.37	73.47	86.21	101.01	129.05
AD	Colusa County APCD	Summer	2010	369.11	427.03	505.43	632.25	73.02	94.44	100.85	124.61
AD	Colusa County APCD	Summer	2011	369.53	427.36	505.34	632.77	73.01	92.76	100.79	124.78
AD	Colusa County APCD	Summer	2012	369.90	427.67	505.27	633.46	73.01	91.49	100.76	124.99
AD	Colusa County APCD	Summer	2013	370.21	427.88	505.20	634.32	73.01	90.33	100.78	125.24
AD	Colusa County APCD	Summer	2014	370.47	427.99	505.17	635.26	73.01	89.10	100.78	125.48
AD	Colusa County APCD	Summer	2015	370.74	428.12	505.15	636.30	73.07	88.20	100.70	125.75
AD	Colusa County APCD	Summer	2016	370.94	428.19	505.10	637.33	73.11	87.13	100.69	126.03
AD	Colusa County APCD	Summer	2017	371.07	428.29	505.00	638.32	73.11	86.50	100.69	126.31
AD	Colusa County APCD	Summer	2018	371.17	428.34	504.89	639.18	73.14	85.83	100.67	126.58
AD	Colusa County APCD	Summer	2019	371.22	428.46	504.77	639.93	73.14	85.43	100.69	126.82
AD	Colusa County APCD	Summer	2020	371.26	428.58	504.65	640.57	73.23	85.29	100.77	127.05
AD	Colusa County APCD	Summer	2021	371.31	428.73	504.55	641.07	73.30	85.37	100.83	127.21
AD	Colusa County APCD	Summer	2022	371.28	428.87	504.46	641.49	73.33	85.43	100.88	127.34
AD	Colusa County APCD	Summer	2023	371.27	429.02	504.39	641.81	73.36	85.52	100.91	127.52
AD	Colusa County APCD	Summer	2024	371.27	429.15	504.32	642.06	73.37	85.59	100.94	127.69
AD	Colusa County APCD	Summer	2025	371.27	429.27	504.27	642.28	73.39	85.65	100.97	127.86
AD	Colusa County APCD	Summer	2026	371.29	429.45	504.21	642.53	73.41	85.73	100.99	128.02
AD	Colusa County APCD	Summer	2027	371.32	429.59	504.17	642.78	73.42	85.79	101.00	128.16
AD	Colusa County APCD	Summer	2028	371.34	429.79	504.14	643.02	73.43	85.86	101.01	128.30
AD	Colusa County APCD	Summer	2029	371.35	429.96	504.09	643.27	73.44	85.92	101.01	128.42
AD	Colusa County APCD	Summer	2030	371.36	430.13	504.04	643.51	73.44	85.97	101.00	128.54
AD	Colusa County APCD	Summer	2031	371.36	430.29	504.05	643.74	73.45	86.03	101.00	128.66
AD	Colusa County APCD	Summer	2032	371.36	430.43	504.04	643.98	73.45	86.08	101.00	128.77
AD	Colusa County APCD	Summer	2033	371.36	430.55	504.04	644.21	73.46	86.13	101.01	128.87
AD	Colusa County APCD	Summer	2034	371.36	430.64	504.02	644.42	73.46	86.17	101.01	128.96
AD	Colusa County APCD	Summer	2035	371.35	430.71	504.00	644.62	73.47	86.21	101.01	129.05
AD	Colusa County APCD	Winter	2010	325.06	382.50	448.17	558.47	73.02	94.44	100.85	124.61
AD	Colusa County APCD	Winter	2011	325.11	381.70	447.33	559.09	73.01	92.76	100.79	124.78
AD	Colusa County APCD	Winter	2012	325.20	381.15	446.68	559.76	73.01	91.49	100.76	124.99
AD	Colusa County APCD	Winter	2013	325.30	380.64	446.18	560.48	73.01	90.33	100.78	125.24
AD	Colusa County APCD	Winter	2014	325.41	380.08	445.78	561.20	73.01	89.10	100.78	125.48
AD	Colusa County APCD	Winter	2015	325.57	379.70	445.45	561.93	73.07	88.20	100.70	125.75
AD	Colusa County APCD	Winter	2016	325.69	379.22	445.20	562.63	73.11	87.13	100.69	126.03
AD	Colusa County APCD	Winter	2017	325.77	378.98	445.00	563.29	73.11	86.50	100.69	126.31

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Colusa County APCD	Winter	2018	325.86	378.69	444.85	563.88	73.14	85.83	100.67	126.58
AD	Colusa County APCD	Winter	2019	325.91	378.54	444.73	564.40	73.14	85.43	100.69	126.82
AD	Colusa County APCD	Winter	2020	325.96	378.43	444.64	564.86	73.23	85.29	100.77	127.05
AD	Colusa County APCD	Winter	2021	326.03	378.48	444.56	565.20	73.30	85.37	100.83	127.21
AD	Colusa County APCD	Winter	2022	326.00	378.50	444.46	565.49	73.33	85.43	100.88	127.34
AD	Colusa County APCD	Winter	2023	325.99	378.59	444.38	565.73	73.36	85.52	100.91	127.52
AD	Colusa County APCD	Winter	2024	325.96	378.62	444.30	565.93	73.37	85.59	100.94	127.69
AD	Colusa County APCD	Winter	2025	325.94	378.65	444.24	566.14	73.39	85.65	100.97	127.86
AD	Colusa County APCD	Winter	2026	325.95	378.74	444.15	566.35	73.41	85.73	100.99	128.02
AD	Colusa County APCD	Winter	2027	325.96	378.83	444.08	566.56	73.42	85.79	101.00	128.16
AD	Colusa County APCD	Winter	2028	325.96	378.92	444.01	566.77	73.43	85.86	101.01	128.30
AD	Colusa County APCD	Winter	2029	325.97	379.01	443.92	566.97	73.44	85.92	101.01	128.42
AD	Colusa County APCD	Winter	2030	325.95	379.10	443.83	567.18	73.44	85.97	101.00	128.54
AD	Colusa County APCD	Winter	2031	325.95	379.18	443.78	567.38	73.45	86.03	101.00	128.66
AD	Colusa County APCD	Winter	2032	325.95	379.27	443.73	567.59	73.45	86.08	101.00	128.77
AD	Colusa County APCD	Winter	2033	325.94	379.34	443.70	567.78	73.46	86.13	101.01	128.87
AD	Colusa County APCD	Winter	2034	325.93	379.41	443.65	567.95	73.46	86.17	101.01	128.96
AD	Colusa County APCD	Winter	2035	325.92	379.46	443.62	568.10	73.47	86.21	101.01	129.05
AD	El Dorado County APCD	Annual	2010	344.06	399.91	474.51	595.67	73.80	87.93	100.07	125.05
AD	El Dorado County APCD	Annual	2011	344.37	400.11	474.18	596.23	73.69	87.21	100.08	125.19
AD	El Dorado County APCD	Annual	2012	344.66	400.37	473.92	596.88	73.60	86.69	100.14	125.37
AD	El Dorado County APCD	Annual	2013	344.92	400.60	473.73	597.60	73.52	86.25	100.18	125.58
AD	El Dorado County APCD	Annual	2014	345.14	400.81	473.57	598.32	73.42	85.86	100.22	125.79
AD	El Dorado County APCD	Annual	2015	345.36	401.02	473.47	599.08	73.39	85.52	100.26	126.03
AD	El Dorado County APCD	Annual	2016	345.56	401.22	473.39	599.80	73.42	85.23	100.32	126.28
AD	El Dorado County APCD	Annual	2017	345.72	401.40	473.32	600.49	73.43	84.98	100.35	126.52
AD	El Dorado County APCD	Annual	2018	345.84	401.56	473.26	601.09	73.41	84.79	100.39	126.76
AD	El Dorado County APCD	Annual	2019	342.63	398.23	469.09	596.26	73.42	84.81	100.46	126.97
AD	El Dorado County APCD	Annual	2020	342.72	398.46	469.09	596.75	73.51	84.90	100.55	127.17
AD	El Dorado County APCD	Annual	2021	342.78	398.68	469.12	597.13	73.59	85.03	100.63	127.30
AD	El Dorado County APCD	Annual	2022	342.81	398.88	469.15	597.45	73.64	85.16	100.70	127.41
AD	El Dorado County APCD	Annual	2023	342.82	399.03	469.17	597.71	73.67	85.26	100.75	127.57
AD	El Dorado County APCD	Annual	2024	342.83	399.18	469.16	597.94	73.69	85.36	100.80	127.71
AD	El Dorado County APCD	Annual	2025	342.83	399.32	469.18	598.18	73.71	85.45	100.84	127.86
AD	El Dorado County APCD	Annual	2026	342.86	399.50	469.17	598.40	73.73	85.55	100.88	128.01
AD	El Dorado County APCD	Annual	2027	342.87	399.67	469.18	598.61	73.74	85.63	100.90	128.14
AD	El Dorado County APCD	Annual	2028	342.89	399.84	469.18	598.84	73.76	85.71	100.92	128.26
AD	El Dorado County APCD	Annual	2029	342.90	400.02	469.17	599.06	73.76	85.79	100.93	128.37
AD	El Dorado County APCD	Annual	2030	342.92	400.19	469.17	599.30	73.77	85.86	100.94	128.48
AD	El Dorado County APCD	Annual	2031	342.94	400.37	469.18	599.52	73.77	85.94	100.95	128.59
AD	El Dorado County APCD	Annual	2032	342.96	400.53	469.19	599.74	73.78	86.00	100.95	128.70
AD	El Dorado County APCD	Annual	2033	342.97	400.67	469.20	599.95	73.78	86.06	100.96	128.79
AD	El Dorado County APCD	Annual	2034	342.98	400.81	469.22	600.14	73.78	86.12	100.97	128.88
AD	El Dorado County APCD	Annual	2035	342.99	400.92	469.23	600.31	73.79	86.17	100.97	128.97
AD	El Dorado County APCD	Summer	2010	374.54	427.96	510.75	641.98	73.80	87.93	100.07	125.05
AD	El Dorado County APCD	Summer	2011	374.93	428.86	510.63	642.58	73.69	87.21	100.08	125.19
AD	El Dorado County APCD	Summer	2012	375.31	429.65	510.55	643.32	73.60	86.69	100.14	125.37
AD	El Dorado County APCD	Summer	2013	375.65	430.31	510.52	644.16	73.52	86.25	100.18	125.58
AD	El Dorado County APCD	Summer	2014	375.94	430.86	510.54	645.06	73.42	85.86	100.22	125.79
AD	El Dorado County APCD	Summer	2015	376.22	431.35	510.57	646.01	73.39	85.52	100.26	126.03
AD	El Dorado County APCD	Summer	2016	376.46	431.78	510.61	646.90	73.42	85.23	100.32	126.28
AD	El Dorado County APCD	Summer	2017	376.65	432.17	510.63	647.77	73.43	84.98	100.35	126.52
AD	El Dorado County APCD	Summer	2018	376.77	432.48	510.62	648.50	73.41	84.79	100.39	126.76
AD	El Dorado County APCD	Summer	2019	373.21	428.93	506.01	643.20	73.42	84.81	100.46	126.97

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	El Dorado County APCD	Summer	2020	373.27	429.23	505.95	643.70	73.51	84.90	100.55	127.17
AD	El Dorado County APCD	Summer	2021	373.33	429.49	505.85	644.00	73.59	85.03	100.63	127.30
AD	El Dorado County APCD	Summer	2022	373.37	429.73	505.76	644.26	73.64	85.16	100.70	127.41
AD	El Dorado County APCD	Summer	2023	373.40	429.92	505.67	644.45	73.67	85.26	100.75	127.57
AD	El Dorado County APCD	Summer	2024	373.39	430.06	505.63	644.57	73.69	85.36	100.80	127.71
AD	El Dorado County APCD	Summer	2025	373.41	430.22	505.59	644.69	73.71	85.45	100.84	127.86
AD	El Dorado County APCD	Summer	2026	373.41	430.40	505.56	644.85	73.73	85.55	100.88	128.01
AD	El Dorado County APCD	Summer	2027	373.41	430.57	505.53	645.01	73.74	85.63	100.90	128.14
AD	El Dorado County APCD	Summer	2028	373.41	430.76	505.51	645.18	73.76	85.71	100.92	128.26
AD	El Dorado County APCD	Summer	2029	373.41	430.95	505.48	645.36	73.76	85.79	100.93	128.37
AD	El Dorado County APCD	Summer	2030	373.42	431.14	505.45	645.55	73.77	85.86	100.94	128.48
AD	El Dorado County APCD	Summer	2031	373.41	431.34	505.42	645.79	73.77	85.94	100.95	128.59
AD	El Dorado County APCD	Summer	2032	373.40	431.50	505.39	646.04	73.78	86.00	100.95	128.70
AD	El Dorado County APCD	Summer	2033	373.40	431.64	505.36	646.26	73.78	86.06	100.96	128.79
AD	El Dorado County APCD	Summer	2034	373.40	431.76	505.33	646.48	73.78	86.12	100.97	128.88
AD	El Dorado County APCD	Summer	2035	373.39	431.86	505.30	646.67	73.79	86.17	100.97	128.97
AD	El Dorado County APCD	Winter	2010	336.47	392.87	465.40	584.06	73.80	87.93	100.07	125.05
AD	El Dorado County APCD	Winter	2011	336.76	392.90	465.02	584.60	73.69	87.21	100.08	125.19
AD	El Dorado County APCD	Winter	2012	337.03	393.02	464.72	585.24	73.60	86.69	100.14	125.37
AD	El Dorado County APCD	Winter	2013	337.27	393.15	464.49	585.93	73.52	86.25	100.18	125.58
AD	El Dorado County APCD	Winter	2014	337.47	393.27	464.28	586.60	73.42	85.86	100.22	125.79
AD	El Dorado County APCD	Winter	2015	337.68	393.40	464.14	587.31	73.39	85.52	100.26	126.03
AD	El Dorado County APCD	Winter	2016	337.87	393.55	464.04	587.99	73.42	85.23	100.32	126.28
AD	El Dorado County APCD	Winter	2017	338.02	393.68	463.94	588.63	73.43	84.98	100.35	126.52
AD	El Dorado County APCD	Winter	2018	338.13	393.80	463.87	589.19	73.41	84.79	100.39	126.76
AD	El Dorado County APCD	Winter	2019	335.01	390.52	459.80	584.48	73.42	84.81	100.46	126.97
AD	El Dorado County APCD	Winter	2020	335.11	390.72	459.82	584.96	73.51	84.90	100.55	127.17
AD	El Dorado County APCD	Winter	2021	335.16	390.94	459.88	585.35	73.59	85.03	100.63	127.30
AD	El Dorado County APCD	Winter	2022	335.19	391.13	459.93	585.69	73.64	85.16	100.70	127.41
AD	El Dorado County APCD	Winter	2023	335.21	391.27	459.97	585.96	73.67	85.26	100.75	127.57
AD	El Dorado County APCD	Winter	2024	335.21	391.42	459.98	586.21	73.69	85.36	100.80	127.71
AD	El Dorado County APCD	Winter	2025	335.22	391.55	460.00	586.49	73.71	85.45	100.84	127.86
AD	El Dorado County APCD	Winter	2026	335.25	391.72	460.01	586.71	73.73	85.55	100.88	128.01
AD	El Dorado County APCD	Winter	2027	335.27	391.89	460.02	586.94	73.74	85.63	100.90	128.14
AD	El Dorado County APCD	Winter	2028	335.28	392.06	460.03	587.17	73.76	85.71	100.92	128.26
AD	El Dorado County APCD	Winter	2029	335.30	392.23	460.02	587.41	73.76	85.79	100.93	128.37
AD	El Dorado County APCD	Winter	2030	335.32	392.40	460.03	587.66	73.77	85.86	100.94	128.48
AD	El Dorado County APCD	Winter	2031	335.34	392.57	460.04	587.87	73.77	85.94	100.95	128.59
AD	El Dorado County APCD	Winter	2032	335.37	392.73	460.07	588.09	73.78	86.00	100.95	128.70
AD	El Dorado County APCD	Winter	2033	335.39	392.87	460.09	588.29	73.78	86.06	100.96	128.79
AD	El Dorado County APCD	Winter	2034	335.40	393.01	460.11	588.48	73.78	86.12	100.97	128.88
AD	El Dorado County APCD	Winter	2035	335.42	393.13	460.13	588.64	73.79	86.17	100.97	128.97
AD	Feather River AQMD	Annual	2010	325.72	381.57	447.59	558.28	73.45	93.72	100.52	124.69
AD	Feather River AQMD	Annual	2011	325.89	381.23	447.09	559.03	73.45	92.05	100.47	124.90
AD	Feather River AQMD	Annual	2012	326.09	381.01	446.71	559.86	73.48	90.72	100.48	125.14
AD	Feather River AQMD	Annual	2013	326.28	380.77	446.42	560.75	73.50	89.47	100.49	125.41
AD	Feather River AQMD	Annual	2014	326.43	380.65	446.20	561.58	73.50	88.61	100.49	125.69
AD	Feather River AQMD	Annual	2015	326.61	380.45	446.03	562.43	73.55	87.57	100.52	125.97
AD	Feather River AQMD	Annual	2016	326.77	380.34	445.89	563.22	73.60	86.86	100.54	126.26
AD	Feather River AQMD	Annual	2017	326.89	380.23	445.76	563.96	73.64	86.15	100.56	126.55
AD	Feather River AQMD	Annual	2018	326.97	380.11	445.66	564.59	73.65	85.54	100.60	126.82
AD	Feather River AQMD	Annual	2019	325.22	377.77	443.02	562.17	73.67	85.33	100.64	127.05
AD	Feather River AQMD	Annual	2020	325.28	377.78	442.94	562.61	73.76	85.29	100.71	127.27
AD	Feather River AQMD	Annual	2021	325.33	377.89	442.88	562.95	73.83	85.40	100.78	127.43

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Feather River AQMD	Annual	2022	325.35	377.98	442.82	563.23	73.87	85.48	100.83	127.56
AD	Feather River AQMD	Annual	2023	325.35	378.04	442.76	563.45	73.90	85.56	100.87	127.73
AD	Feather River AQMD	Annual	2024	325.30	378.13	442.73	563.63	73.92	85.63	100.91	127.89
AD	Feather River AQMD	Annual	2025	325.29	378.23	442.70	563.82	73.94	85.70	100.93	128.04
AD	Feather River AQMD	Annual	2026	325.30	378.30	442.64	563.98	73.96	85.77	100.95	128.18
AD	Feather River AQMD	Annual	2027	325.32	378.37	442.59	564.14	73.97	85.82	100.97	128.30
AD	Feather River AQMD	Annual	2028	325.33	378.44	442.55	564.31	73.98	85.87	100.98	128.42
AD	Feather River AQMD	Annual	2029	325.33	378.52	442.50	564.48	73.99	85.92	100.98	128.53
AD	Feather River AQMD	Annual	2030	325.33	378.59	442.45	564.66	73.99	85.97	100.97	128.64
AD	Feather River AQMD	Annual	2031	325.34	378.67	442.43	564.81	73.99	86.01	100.98	128.74
AD	Feather River AQMD	Annual	2032	325.35	378.75	442.40	564.96	74.00	86.06	100.98	128.83
AD	Feather River AQMD	Annual	2033	325.36	378.81	442.38	565.10	74.00	86.09	100.99	128.92
AD	Feather River AQMD	Annual	2034	325.36	378.88	442.36	565.23	74.01	86.13	100.99	129.00
AD	Feather River AQMD	Annual	2035	325.37	378.92	442.34	565.35	74.01	86.16	100.99	129.08
AD	Feather River AQMD	Summer	2010	361.70	419.04	494.41	617.34	73.45	93.72	100.52	124.69
AD	Feather River AQMD	Summer	2011	362.18	419.54	494.52	618.21	73.45	92.05	100.47	124.90
AD	Feather River AQMD	Summer	2012	362.62	419.99	494.59	619.26	73.48	90.72	100.48	125.14
AD	Feather River AQMD	Summer	2013	363.00	420.31	494.65	620.44	73.50	89.47	100.49	125.41
AD	Feather River AQMD	Summer	2014	363.29	420.57	494.71	621.58	73.50	88.61	100.49	125.69
AD	Feather River AQMD	Summer	2015	363.57	420.79	494.73	622.75	73.55	87.57	100.52	125.97
AD	Feather River AQMD	Summer	2016	363.79	420.94	494.73	623.88	73.60	86.86	100.54	126.26
AD	Feather River AQMD	Summer	2017	363.94	421.09	494.67	624.89	73.64	86.15	100.56	126.55
AD	Feather River AQMD	Summer	2018	364.03	421.16	494.57	625.74	73.65	85.54	100.60	126.82
AD	Feather River AQMD	Summer	2019	362.06	418.63	491.62	623.14	73.67	85.33	100.64	127.05
AD	Feather River AQMD	Summer	2020	362.10	418.69	491.50	623.69	73.76	85.29	100.71	127.27
AD	Feather River AQMD	Summer	2021	362.12	418.84	491.40	624.12	73.83	85.40	100.78	127.43
AD	Feather River AQMD	Summer	2022	362.12	418.98	491.31	624.47	73.87	85.48	100.83	127.56
AD	Feather River AQMD	Summer	2023	362.11	419.10	491.25	624.74	73.90	85.56	100.87	127.73
AD	Feather River AQMD	Summer	2024	362.07	419.25	491.20	624.93	73.92	85.63	100.91	127.89
AD	Feather River AQMD	Summer	2025	362.06	419.39	491.18	625.12	73.94	85.70	100.93	128.04
AD	Feather River AQMD	Summer	2026	362.09	419.49	491.11	625.25	73.96	85.77	100.95	128.18
AD	Feather River AQMD	Summer	2027	362.12	419.57	491.08	625.41	73.97	85.82	100.97	128.30
AD	Feather River AQMD	Summer	2028	362.15	419.68	491.05	625.58	73.98	85.87	100.98	128.42
AD	Feather River AQMD	Summer	2029	362.17	419.79	491.02	625.77	73.99	85.92	100.98	128.53
AD	Feather River AQMD	Summer	2030	362.19	419.91	491.00	625.97	73.99	85.97	100.97	128.64
AD	Feather River AQMD	Summer	2031	362.20	420.01	491.01	626.14	73.99	86.01	100.98	128.74
AD	Feather River AQMD	Summer	2032	362.21	420.10	491.01	626.33	74.00	86.06	100.98	128.83
AD	Feather River AQMD	Summer	2033	362.22	420.19	491.01	626.51	74.00	86.09	100.99	128.92
AD	Feather River AQMD	Summer	2034	362.22	420.27	491.00	626.69	74.01	86.13	100.99	129.00
AD	Feather River AQMD	Summer	2035	362.23	420.33	490.99	626.85	74.01	86.16	100.99	129.08
AD	Feather River AQMD	Winter	2010	315.77	371.26	434.66	541.87	73.45	93.72	100.52	124.69
AD	Feather River AQMD	Winter	2011	315.85	370.69	433.99	542.58	73.45	92.05	100.47	124.90
AD	Feather River AQMD	Winter	2012	315.98	370.29	433.49	543.36	73.48	90.72	100.48	125.14
AD	Feather River AQMD	Winter	2013	316.12	369.90	433.11	544.17	73.50	89.47	100.49	125.41
AD	Feather River AQMD	Winter	2014	316.24	369.68	432.81	544.92	73.50	88.61	100.49	125.69
AD	Feather River AQMD	Winter	2015	316.38	369.37	432.59	545.67	73.55	87.57	100.52	125.97
AD	Feather River AQMD	Winter	2016	316.52	369.19	432.41	546.38	73.60	86.86	100.54	126.26
AD	Feather River AQMD	Winter	2017	316.64	369.01	432.27	547.04	73.64	86.15	100.56	126.55
AD	Feather River AQMD	Winter	2018	316.72	368.83	432.16	547.62	73.65	85.54	100.60	126.82
AD	Feather River AQMD	Winter	2019	315.03	366.54	429.60	545.24	73.67	85.33	100.64	127.05
AD	Feather River AQMD	Winter	2020	315.10	366.54	429.54	545.66	73.76	85.29	100.71	127.27
AD	Feather River AQMD	Winter	2021	315.16	366.64	429.48	545.97	73.83	85.40	100.78	127.43
AD	Feather River AQMD	Winter	2022	315.18	366.71	429.43	546.23	73.87	85.48	100.83	127.56
AD	Feather River AQMD	Winter	2023	315.18	366.76	429.38	546.44	73.90	85.56	100.87	127.73

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Feather River AQMD	Winter	2024	315.13	366.83	429.35	546.62	73.92	85.63	100.91	127.89
AD	Feather River AQMD	Winter	2025	315.11	366.92	429.32	546.81	73.94	85.70	100.93	128.04
AD	Feather River AQMD	Winter	2026	315.13	366.98	429.26	546.98	73.96	85.77	100.95	128.18
AD	Feather River AQMD	Winter	2027	315.14	367.04	429.21	547.14	73.97	85.82	100.97	128.30
AD	Feather River AQMD	Winter	2028	315.14	367.11	429.17	547.32	73.98	85.87	100.98	128.42
AD	Feather River AQMD	Winter	2029	315.14	367.17	429.11	547.49	73.99	85.92	100.98	128.53
AD	Feather River AQMD	Winter	2030	315.14	367.24	429.06	547.66	73.99	85.97	100.97	128.64
AD	Feather River AQMD	Winter	2031	315.15	367.31	429.02	547.79	73.99	86.01	100.98	128.74
AD	Feather River AQMD	Winter	2032	315.16	367.38	428.99	547.93	74.00	86.06	100.98	128.83
AD	Feather River AQMD	Winter	2033	315.16	367.45	428.96	548.06	74.00	86.09	100.99	128.92
AD	Feather River AQMD	Winter	2034	315.17	367.50	428.94	548.17	74.01	86.13	100.99	129.00
AD	Feather River AQMD	Winter	2035	315.18	367.55	428.92	548.27	74.01	86.16	100.99	129.08
AD	Glenn County APCD	Annual	2010	347.61	407.24	479.18	597.47	73.80	101.05	102.36	125.05
AD	Glenn County APCD	Annual	2011	347.94	406.83	478.46	597.84	73.70	98.07	102.06	125.06
AD	Glenn County APCD	Annual	2012	348.25	406.57	477.93	598.43	73.59	95.83	101.82	125.13
AD	Glenn County APCD	Annual	2013	348.56	406.34	477.52	599.20	73.54	93.69	101.62	125.27
AD	Glenn County APCD	Annual	2014	348.81	406.16	477.20	600.00	73.43	91.83	101.37	125.43
AD	Glenn County APCD	Annual	2015	349.05	406.03	476.95	600.89	73.38	90.19	101.22	125.64
AD	Glenn County APCD	Annual	2016	349.27	405.92	476.74	601.81	73.41	88.68	101.09	125.88
AD	Glenn County APCD	Annual	2017	349.44	405.85	476.57	602.68	73.41	87.43	101.01	126.13
AD	Glenn County APCD	Annual	2018	349.58	405.77	476.41	603.43	73.43	86.26	100.91	126.38
AD	Glenn County APCD	Annual	2019	349.68	405.76	476.29	604.10	73.46	85.63	100.80	126.62
AD	Glenn County APCD	Annual	2020	349.77	405.79	476.19	604.70	73.56	85.43	100.85	126.85
AD	Glenn County APCD	Annual	2021	349.82	405.88	476.10	605.14	73.62	85.50	100.90	126.97
AD	Glenn County APCD	Annual	2022	349.86	405.97	476.01	605.47	73.68	85.55	100.94	127.04
AD	Glenn County APCD	Annual	2023	349.88	406.04	475.94	605.72	73.71	85.61	100.98	127.23
AD	Glenn County APCD	Annual	2024	349.89	406.11	475.87	605.91	73.71	85.66	101.00	127.41
AD	Glenn County APCD	Annual	2025	349.89	406.19	475.82	606.12	73.72	85.74	101.02	127.59
AD	Glenn County APCD	Annual	2026	349.91	406.27	475.76	606.32	73.75	85.81	101.03	127.77
AD	Glenn County APCD	Annual	2027	349.93	406.34	475.71	606.53	73.76	85.87	101.03	127.93
AD	Glenn County APCD	Annual	2028	349.94	406.42	475.66	606.74	73.77	85.93	101.03	128.07
AD	Glenn County APCD	Annual	2029	349.94	406.49	475.61	606.94	73.78	85.99	101.02	128.21
AD	Glenn County APCD	Annual	2030	349.94	406.57	475.56	607.16	73.78	86.04	101.01	128.34
AD	Glenn County APCD	Annual	2031	349.94	406.64	475.55	607.42	73.79	86.10	101.01	128.47
AD	Glenn County APCD	Annual	2032	349.94	406.69	475.53	607.68	73.79	86.15	101.01	128.60
AD	Glenn County APCD	Annual	2033	349.94	406.75	475.52	607.92	73.80	86.19	101.01	128.71
AD	Glenn County APCD	Annual	2034	349.94	406.79	475.50	608.14	73.80	86.23	101.01	128.82
AD	Glenn County APCD	Annual	2035	349.93	406.82	475.49	608.33	73.81	86.26	101.01	128.92
AD	Glenn County APCD	Summer	2010	384.83	445.81	527.20	657.56	73.80	101.05	102.36	125.05
AD	Glenn County APCD	Summer	2011	385.51	446.50	527.25	657.84	73.70	98.07	102.06	125.06
AD	Glenn County APCD	Summer	2012	386.08	446.98	527.28	658.52	73.59	95.83	101.82	125.13
AD	Glenn County APCD	Summer	2013	386.56	447.34	527.28	659.58	73.54	93.69	101.62	125.27
AD	Glenn County APCD	Summer	2014	386.94	447.60	527.29	660.69	73.43	91.83	101.37	125.43
AD	Glenn County APCD	Summer	2015	387.27	447.83	527.25	661.99	73.38	90.19	101.22	125.64
AD	Glenn County APCD	Summer	2016	387.55	448.01	527.19	663.37	73.41	88.68	101.09	125.88
AD	Glenn County APCD	Summer	2017	387.74	448.13	527.06	664.65	73.41	87.43	101.01	126.13
AD	Glenn County APCD	Summer	2018	387.86	448.22	526.91	665.76	73.43	86.26	100.91	126.38
AD	Glenn County APCD	Summer	2019	387.96	448.30	526.79	666.74	73.46	85.63	100.80	126.62
AD	Glenn County APCD	Summer	2020	388.02	448.37	526.65	667.59	73.56	85.43	100.85	126.85
AD	Glenn County APCD	Summer	2021	388.06	448.51	526.53	668.25	73.62	85.50	100.90	126.97
AD	Glenn County APCD	Summer	2022	388.09	448.64	526.43	668.76	73.68	85.55	100.94	127.04
AD	Glenn County APCD	Summer	2023	388.10	448.75	526.35	669.12	73.71	85.61	100.98	127.23
AD	Glenn County APCD	Summer	2024	388.12	448.88	526.29	669.37	73.71	85.66	101.00	127.41
AD	Glenn County APCD	Summer	2025	388.13	449.00	526.24	669.61	73.72	85.74	101.02	127.59

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Glenn County APCD	Summer	2026	388.17	449.13	526.19	669.78	73.75	85.81	101.03	127.77
AD	Glenn County APCD	Summer	2027	388.21	449.21	526.15	669.97	73.76	85.87	101.03	127.93
AD	Glenn County APCD	Summer	2028	388.24	449.33	526.12	670.17	73.77	85.93	101.03	128.07
AD	Glenn County APCD	Summer	2029	388.26	449.45	526.10	670.39	73.78	85.99	101.02	128.21
AD	Glenn County APCD	Summer	2030	388.28	449.57	526.08	670.64	73.78	86.04	101.01	128.34
AD	Glenn County APCD	Summer	2031	388.27	449.67	526.12	670.94	73.79	86.10	101.01	128.47
AD	Glenn County APCD	Summer	2032	388.27	449.74	526.13	671.26	73.79	86.15	101.01	128.60
AD	Glenn County APCD	Summer	2033	388.26	449.81	526.14	671.55	73.80	86.19	101.01	128.71
AD	Glenn County APCD	Summer	2034	388.25	449.85	526.14	671.85	73.80	86.23	101.01	128.82
AD	Glenn County APCD	Summer	2035	388.24	449.87	526.13	672.11	73.81	86.26	101.01	128.92
AD	Glenn County APCD	Winter	2010	335.44	394.64	463.49	577.83	73.80	101.05	102.36	125.05
AD	Glenn County APCD	Winter	2011	335.66	393.87	462.51	578.23	73.70	98.07	102.06	125.06
AD	Glenn County APCD	Winter	2012	335.89	393.37	461.80	578.79	73.59	95.83	101.82	125.13
AD	Glenn County APCD	Winter	2013	336.14	392.94	461.25	579.47	73.54	93.69	101.62	125.27
AD	Glenn County APCD	Winter	2014	336.35	392.62	460.83	580.17	73.43	91.83	101.37	125.43
AD	Glenn County APCD	Winter	2015	336.56	392.37	460.51	580.92	73.38	90.19	101.22	125.64
AD	Glenn County APCD	Winter	2016	336.76	392.17	460.25	581.69	73.41	88.68	101.09	125.88
AD	Glenn County APCD	Winter	2017	336.93	392.03	460.06	582.43	73.41	87.43	101.01	126.13
AD	Glenn County APCD	Winter	2018	337.06	391.89	459.91	583.06	73.43	86.26	100.91	126.38
AD	Glenn County APCD	Winter	2019	337.18	391.86	459.79	583.63	73.46	85.63	100.80	126.62
AD	Glenn County APCD	Winter	2020	337.27	391.87	459.70	584.15	73.56	85.43	100.85	126.85
AD	Glenn County APCD	Winter	2021	337.33	391.95	459.61	584.51	73.62	85.50	100.90	126.97
AD	Glenn County APCD	Winter	2022	337.37	392.02	459.54	584.78	73.68	85.55	100.94	127.04
AD	Glenn County APCD	Winter	2023	337.39	392.08	459.47	585.00	73.71	85.61	100.98	127.23
AD	Glenn County APCD	Winter	2024	337.39	392.13	459.40	585.17	73.71	85.66	101.00	127.41
AD	Glenn County APCD	Winter	2025	337.39	392.20	459.34	585.37	73.72	85.74	101.02	127.59
AD	Glenn County APCD	Winter	2026	337.41	392.27	459.27	585.58	73.75	85.81	101.03	127.77
AD	Glenn County APCD	Winter	2027	337.42	392.32	459.22	585.80	73.76	85.87	101.03	127.93
AD	Glenn County APCD	Winter	2028	337.42	392.39	459.16	586.00	73.77	85.93	101.03	128.07
AD	Glenn County APCD	Winter	2029	337.42	392.46	459.10	586.21	73.78	85.99	101.02	128.21
AD	Glenn County APCD	Winter	2030	337.42	392.52	459.05	586.42	73.78	86.04	101.01	128.34
AD	Glenn County APCD	Winter	2031	337.42	392.58	459.02	586.66	73.79	86.10	101.01	128.47
AD	Glenn County APCD	Winter	2032	337.42	392.63	459.00	586.91	73.79	86.15	101.01	128.60
AD	Glenn County APCD	Winter	2033	337.41	392.67	458.97	587.13	73.80	86.19	101.01	128.71
AD	Glenn County APCD	Winter	2034	337.41	392.71	458.95	587.32	73.80	86.23	101.01	128.82
AD	Glenn County APCD	Winter	2035	337.41	392.75	458.94	587.49	73.81	86.26	101.01	128.92
AD	Great Basin UAPCD	Annual	2010	351.71	410.12	479.62	598.88	74.54	91.99	101.41	124.88
AD	Great Basin UAPCD	Annual	2011	351.58	409.65	479.10	599.56	74.30	90.81	101.24	125.01
AD	Great Basin UAPCD	Annual	2012	351.55	409.23	478.69	600.33	74.12	89.78	101.13	125.19
AD	Great Basin UAPCD	Annual	2013	351.50	408.84	478.36	601.12	73.86	88.90	101.03	125.40
AD	Great Basin UAPCD	Annual	2014	351.45	408.49	478.12	601.90	73.59	88.09	100.88	125.62
AD	Great Basin UAPCD	Annual	2015	351.50	408.21	477.92	602.74	73.49	87.37	100.88	125.86
AD	Great Basin UAPCD	Annual	2016	351.62	407.99	477.76	603.56	73.49	86.82	100.85	126.11
AD	Great Basin UAPCD	Annual	2017	351.64	407.78	477.63	604.31	73.40	86.29	100.83	126.37
AD	Great Basin UAPCD	Annual	2018	351.66	407.60	477.52	604.96	73.33	85.85	100.80	126.61
AD	Great Basin UAPCD	Annual	2019	351.69	407.52	477.42	605.53	73.29	85.59	100.75	126.84
AD	Great Basin UAPCD	Annual	2020	351.72	407.45	477.34	606.03	73.36	85.50	100.79	127.06
AD	Great Basin UAPCD	Annual	2021	351.66	407.35	477.26	606.36	73.36	85.50	100.84	127.21
AD	Great Basin UAPCD	Annual	2022	351.57	407.28	477.17	606.67	73.35	85.52	100.88	127.36
AD	Great Basin UAPCD	Annual	2023	351.48	407.18	477.10	606.89	73.33	85.53	100.90	127.53
AD	Great Basin UAPCD	Annual	2024	351.41	407.09	477.03	607.04	73.32	85.55	100.92	127.69
AD	Great Basin UAPCD	Annual	2025	351.37	407.16	477.00	607.21	73.31	85.62	100.95	127.84
AD	Great Basin UAPCD	Annual	2026	351.39	407.29	476.94	607.42	73.33	85.71	100.97	127.99
AD	Great Basin UAPCD	Annual	2027	351.40	407.43	476.89	607.63	73.34	85.79	100.99	128.14

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Great Basin UAPCD	Annual	2028	351.40	407.56	476.84	607.84	73.35	85.87	101.00	128.27
AD	Great Basin UAPCD	Annual	2029	351.39	407.69	476.77	608.06	73.36	85.94	101.00	128.39
AD	Great Basin UAPCD	Annual	2030	351.38	407.82	476.71	608.27	73.36	86.00	101.00	128.51
AD	Great Basin UAPCD	Annual	2031	351.38	407.96	476.68	608.50	73.36	86.07	101.01	128.63
AD	Great Basin UAPCD	Annual	2032	351.38	408.09	476.65	608.73	73.37	86.13	101.01	128.74
AD	Great Basin UAPCD	Annual	2033	351.38	408.21	476.62	608.94	73.37	86.18	101.01	128.84
AD	Great Basin UAPCD	Annual	2034	351.37	408.32	476.60	609.12	73.38	86.23	101.02	128.94
AD	Great Basin UAPCD	Annual	2035	351.37	408.41	476.58	609.28	73.38	86.28	101.02	129.02
AD	Great Basin UAPCD	Summer	2010	368.80	426.31	499.33	622.32	74.54	91.99	101.41	124.88
AD	Great Basin UAPCD	Summer	2011	368.81	426.47	498.98	623.07	74.30	90.81	101.24	125.01
AD	Great Basin UAPCD	Summer	2012	368.86	426.56	498.74	623.95	74.12	89.78	101.13	125.19
AD	Great Basin UAPCD	Summer	2013	368.89	426.59	498.57	624.87	73.86	88.90	101.03	125.40
AD	Great Basin UAPCD	Summer	2014	368.92	426.59	498.50	625.78	73.59	88.09	100.88	125.62
AD	Great Basin UAPCD	Summer	2015	369.01	426.63	498.39	626.79	73.49	87.37	100.88	125.86
AD	Great Basin UAPCD	Summer	2016	369.15	426.65	498.34	627.79	73.49	86.82	100.85	126.11
AD	Great Basin UAPCD	Summer	2017	369.19	426.65	498.29	628.71	73.40	86.29	100.83	126.37
AD	Great Basin UAPCD	Summer	2018	369.21	426.63	498.22	629.47	73.33	85.85	100.80	126.61
AD	Great Basin UAPCD	Summer	2019	369.25	426.71	498.16	630.15	73.29	85.59	100.75	126.84
AD	Great Basin UAPCD	Summer	2020	369.30	426.76	498.11	630.75	73.36	85.50	100.79	127.06
AD	Great Basin UAPCD	Summer	2021	369.22	426.73	498.07	631.17	73.36	85.50	100.84	127.21
AD	Great Basin UAPCD	Summer	2022	369.14	426.72	498.03	631.56	73.35	85.52	100.88	127.36
AD	Great Basin UAPCD	Summer	2023	369.04	426.67	498.01	631.85	73.33	85.53	100.90	127.53
AD	Great Basin UAPCD	Summer	2024	368.98	426.64	498.01	632.03	73.32	85.55	100.92	127.69
AD	Great Basin UAPCD	Summer	2025	368.96	426.73	498.02	632.24	73.31	85.62	100.95	127.84
AD	Great Basin UAPCD	Summer	2026	368.99	426.89	497.97	632.46	73.33	85.71	100.97	127.99
AD	Great Basin UAPCD	Summer	2027	369.03	427.08	497.94	632.69	73.34	85.79	100.99	128.14
AD	Great Basin UAPCD	Summer	2028	369.05	427.25	497.90	632.94	73.35	85.87	101.00	128.27
AD	Great Basin UAPCD	Summer	2029	369.06	427.42	497.85	633.19	73.36	85.94	101.00	128.39
AD	Great Basin UAPCD	Summer	2030	369.07	427.57	497.80	633.43	73.36	86.00	101.00	128.51
AD	Great Basin UAPCD	Summer	2031	369.06	427.77	497.77	633.69	73.36	86.07	101.01	128.63
AD	Great Basin UAPCD	Summer	2032	369.06	427.93	497.74	633.93	73.37	86.13	101.01	128.74
AD	Great Basin UAPCD	Summer	2033	369.06	428.08	497.72	634.18	73.37	86.18	101.01	128.84
AD	Great Basin UAPCD	Summer	2034	369.05	428.21	497.70	634.38	73.38	86.23	101.02	128.94
AD	Great Basin UAPCD	Summer	2035	369.04	428.32	497.68	634.56	73.38	86.28	101.02	129.02
AD	Great Basin UAPCD	Winter	2010	367.72	425.30	498.12	620.89	74.54	91.99	101.41	124.88
AD	Great Basin UAPCD	Winter	2011	367.73	425.41	497.76	621.64	74.30	90.81	101.24	125.01
AD	Great Basin UAPCD	Winter	2012	367.77	425.48	497.51	622.51	74.12	89.78	101.13	125.19
AD	Great Basin UAPCD	Winter	2013	367.80	425.47	497.33	623.43	73.86	88.90	101.03	125.40
AD	Great Basin UAPCD	Winter	2014	367.82	425.45	497.25	624.33	73.59	88.09	100.88	125.62
AD	Great Basin UAPCD	Winter	2015	367.92	425.48	497.13	625.32	73.49	87.37	100.88	125.86
AD	Great Basin UAPCD	Winter	2016	368.05	425.48	497.08	626.32	73.49	86.82	100.85	126.11
AD	Great Basin UAPCD	Winter	2017	368.09	425.46	497.03	627.23	73.40	86.29	100.83	126.37
AD	Great Basin UAPCD	Winter	2018	368.11	425.44	496.95	627.98	73.33	85.85	100.80	126.61
AD	Great Basin UAPCD	Winter	2019	368.14	425.50	496.89	628.66	73.29	85.59	100.75	126.84
AD	Great Basin UAPCD	Winter	2020	368.19	425.55	496.84	629.25	73.36	85.50	100.79	127.06
AD	Great Basin UAPCD	Winter	2021	368.12	425.51	496.80	629.66	73.36	85.50	100.84	127.21
AD	Great Basin UAPCD	Winter	2022	368.04	425.50	496.75	630.05	73.35	85.52	100.88	127.36
AD	Great Basin UAPCD	Winter	2023	367.94	425.45	496.73	630.33	73.33	85.53	100.90	127.53
AD	Great Basin UAPCD	Winter	2024	367.88	425.41	496.72	630.51	73.32	85.55	100.92	127.69
AD	Great Basin UAPCD	Winter	2025	367.85	425.50	496.73	630.71	73.31	85.62	100.95	127.84
AD	Great Basin UAPCD	Winter	2026	367.89	425.66	496.68	630.94	73.33	85.71	100.97	127.99
AD	Great Basin UAPCD	Winter	2027	367.93	425.85	496.65	631.16	73.34	85.79	100.99	128.14
AD	Great Basin UAPCD	Winter	2028	367.95	426.02	496.61	631.41	73.35	85.87	101.00	128.27
AD	Great Basin UAPCD	Winter	2029	367.95	426.19	496.56	631.66	73.36	85.94	101.00	128.39

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Great Basin UAPCD	Winter	2030	367.96	426.33	496.51	631.90	73.36	86.00	101.00	128.51
AD	Great Basin UAPCD	Winter	2031	367.95	426.53	496.47	632.15	73.36	86.07	101.01	128.63
AD	Great Basin UAPCD	Winter	2032	367.95	426.69	496.45	632.40	73.37	86.13	101.01	128.74
AD	Great Basin UAPCD	Winter	2033	367.95	426.84	496.42	632.64	73.37	86.18	101.01	128.84
AD	Great Basin UAPCD	Winter	2034	367.94	426.96	496.41	632.84	73.38	86.23	101.02	128.94
AD	Great Basin UAPCD	Winter	2035	367.94	427.07	496.38	633.02	73.38	86.28	101.02	129.02
AD	Imperial County APCD	Annual	2010	333.06	382.51	456.21	575.78	72.99	86.06	100.65	125.48
AD	Imperial County APCD	Annual	2011	332.74	382.65	455.12	575.21	73.04	85.73	100.60	125.71
AD	Imperial County APCD	Annual	2012	333.03	383.36	454.93	575.79	73.14	85.50	100.60	125.97
AD	Imperial County APCD	Annual	2013	331.75	382.30	452.68	573.90	73.23	85.37	100.58	126.29
AD	Imperial County APCD	Annual	2014	331.98	382.91	452.61	574.66	73.31	85.29	100.59	126.61
AD	Imperial County APCD	Annual	2015	327.26	377.77	445.90	566.93	73.39	85.24	100.62	126.91
AD	Imperial County APCD	Annual	2016	327.36	378.16	445.86	567.56	73.41	85.18	100.65	127.20
AD	Imperial County APCD	Annual	2017	327.39	378.50	445.81	568.11	73.41	85.15	100.65	127.47
AD	Imperial County APCD	Annual	2018	327.40	378.76	445.76	568.55	73.39	85.16	100.65	127.71
AD	Imperial County APCD	Annual	2019	327.23	378.80	445.47	568.62	73.39	85.24	100.69	127.93
AD	Imperial County APCD	Annual	2020	327.21	379.01	445.41	568.92	73.41	85.34	100.76	128.13
AD	Imperial County APCD	Annual	2021	327.15	379.11	445.34	569.08	73.42	85.44	100.80	128.28
AD	Imperial County APCD	Annual	2022	327.03	379.19	445.26	569.20	73.39	85.52	100.84	128.40
AD	Imperial County APCD	Annual	2023	326.91	379.26	445.18	569.30	73.35	85.60	100.87	128.53
AD	Imperial County APCD	Annual	2024	329.56	382.51	448.87	574.16	73.32	85.66	100.89	128.63
AD	Imperial County APCD	Annual	2025	329.46	382.58	448.83	574.22	73.28	85.73	100.92	128.73
AD	Imperial County APCD	Annual	2026	329.42	382.67	448.77	574.27	73.26	85.80	100.94	128.82
AD	Imperial County APCD	Annual	2027	329.39	382.76	448.73	574.32	73.24	85.86	100.95	128.90
AD	Imperial County APCD	Annual	2028	329.37	382.86	448.71	574.39	73.23	85.92	100.96	128.97
AD	Imperial County APCD	Annual	2029	329.36	382.96	448.68	574.47	73.21	85.97	100.96	129.04
AD	Imperial County APCD	Annual	2030	329.34	383.07	448.66	574.55	73.20	86.02	100.97	129.10
AD	Imperial County APCD	Annual	2031	329.66	383.57	449.13	575.24	73.19	86.07	100.97	129.15
AD	Imperial County APCD	Annual	2032	329.64	383.67	449.12	575.31	73.18	86.11	100.97	129.21
AD	Imperial County APCD	Annual	2033	329.63	383.75	449.11	575.38	73.18	86.15	100.98	129.26
AD	Imperial County APCD	Annual	2034	329.63	383.82	449.11	575.45	73.18	86.19	100.98	129.30
AD	Imperial County APCD	Annual	2035	329.62	383.88	449.10	575.52	73.18	86.22	100.98	129.34
AD	Imperial County APCD	Summer	2010	341.49	391.06	467.38	590.08	72.99	86.06	100.65	125.48
AD	Imperial County APCD	Summer	2011	341.29	391.47	466.40	589.55	73.04	85.73	100.60	125.71
AD	Imperial County APCD	Summer	2012	341.64	392.37	466.28	590.14	73.14	85.50	100.60	125.97
AD	Imperial County APCD	Summer	2013	340.37	391.46	464.05	588.24	73.23	85.37	100.58	126.29
AD	Imperial County APCD	Summer	2014	340.64	392.20	464.05	589.07	73.31	85.29	100.59	126.61
AD	Imperial County APCD	Summer	2015	335.82	387.05	457.23	581.20	73.39	85.24	100.62	126.91
AD	Imperial County APCD	Summer	2016	335.93	387.53	457.23	581.90	73.41	85.18	100.65	127.20
AD	Imperial County APCD	Summer	2017	335.98	387.93	457.21	582.52	73.41	85.15	100.65	127.47
AD	Imperial County APCD	Summer	2018	335.99	388.23	457.17	583.00	73.39	85.16	100.65	127.71
AD	Imperial County APCD	Summer	2019	335.83	388.32	456.89	583.10	73.39	85.24	100.69	127.93
AD	Imperial County APCD	Summer	2020	335.80	388.55	456.83	583.42	73.41	85.34	100.76	128.13
AD	Imperial County APCD	Summer	2021	335.69	388.62	456.70	583.51	73.42	85.44	100.80	128.28
AD	Imperial County APCD	Summer	2022	335.56	388.70	456.60	583.62	73.39	85.52	100.84	128.40
AD	Imperial County APCD	Summer	2023	335.42	388.78	456.51	583.70	73.35	85.60	100.87	128.53
AD	Imperial County APCD	Summer	2024	338.10	392.07	460.23	588.61	73.32	85.66	100.89	128.63
AD	Imperial County APCD	Summer	2025	338.00	392.15	460.18	588.66	73.28	85.73	100.92	128.73
AD	Imperial County APCD	Summer	2026	337.95	392.24	460.11	588.69	73.26	85.80	100.94	128.82
AD	Imperial County APCD	Summer	2027	337.92	392.33	460.07	588.73	73.24	85.86	100.95	128.90
AD	Imperial County APCD	Summer	2028	337.91	392.44	460.04	588.80	73.23	85.92	100.96	128.97
AD	Imperial County APCD	Summer	2029	337.90	392.56	460.02	588.88	73.21	85.97	100.96	129.04
AD	Imperial County APCD	Summer	2030	337.89	392.68	460.00	588.96	73.20	86.02	100.97	129.10
AD	Imperial County APCD	Summer	2031	338.20	393.18	460.46	589.62	73.19	86.07	100.97	129.15

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Imperial County APCD	Summer	2032	338.17	393.28	460.45	589.69	73.18	86.11	100.97	129.21
AD	Imperial County APCD	Summer	2033	338.16	393.37	460.44	589.76	73.18	86.15	100.98	129.26
AD	Imperial County APCD	Summer	2034	338.16	393.45	460.44	589.84	73.18	86.19	100.98	129.30
AD	Imperial County APCD	Summer	2035	338.15	393.51	460.44	589.91	73.18	86.22	100.98	129.34
AD	Imperial County APCD	Winter	2010	314.45	363.62	431.53	544.19	72.99	86.06	100.65	125.48
AD	Imperial County APCD	Winter	2011	313.97	363.27	430.33	543.72	73.04	85.73	100.60	125.71
AD	Imperial County APCD	Winter	2012	314.13	363.55	430.01	544.27	73.14	85.50	100.60	125.97
AD	Imperial County APCD	Winter	2013	312.79	362.16	427.68	542.37	73.23	85.37	100.58	126.29
AD	Imperial County APCD	Winter	2014	312.93	362.45	427.46	542.97	73.31	85.29	100.59	126.61
AD	Imperial County APCD	Winter	2015	308.44	357.38	421.00	535.54	73.39	85.24	100.62	126.91
AD	Imperial County APCD	Winter	2016	308.50	357.58	420.87	536.02	73.41	85.18	100.65	127.20
AD	Imperial County APCD	Winter	2017	308.52	357.77	420.75	536.45	73.41	85.15	100.65	127.47
AD	Imperial County APCD	Winter	2018	308.53	357.93	420.67	536.81	73.39	85.16	100.65	127.71
AD	Imperial County APCD	Winter	2019	308.38	357.91	420.39	536.83	73.39	85.24	100.69	127.93
AD	Imperial County APCD	Winter	2020	308.36	358.06	420.34	537.09	73.41	85.34	100.76	128.13
AD	Imperial County APCD	Winter	2021	308.33	358.16	420.31	537.29	73.42	85.44	100.80	128.28
AD	Imperial County APCD	Winter	2022	308.24	358.22	420.27	537.43	73.39	85.52	100.84	128.40
AD	Imperial County APCD	Winter	2023	308.13	358.28	420.22	537.54	73.35	85.60	100.87	128.53
AD	Imperial County APCD	Winter	2024	310.65	361.33	423.72	542.17	73.32	85.66	100.89	128.63
AD	Imperial County APCD	Winter	2025	310.55	361.39	423.70	542.25	73.28	85.73	100.92	128.73
AD	Imperial County APCD	Winter	2026	310.52	361.47	423.66	542.33	73.26	85.80	100.94	128.82
AD	Imperial County APCD	Winter	2027	310.48	361.55	423.63	542.41	73.24	85.86	100.95	128.90
AD	Imperial County APCD	Winter	2028	310.46	361.64	423.61	542.49	73.23	85.92	100.96	128.97
AD	Imperial County APCD	Winter	2029	310.44	361.71	423.57	542.57	73.21	85.97	100.96	129.04
AD	Imperial County APCD	Winter	2030	310.42	361.79	423.54	542.64	73.20	86.02	100.97	129.10
AD	Imperial County APCD	Winter	2031	310.73	362.26	423.98	543.31	73.19	86.07	100.97	129.15
AD	Imperial County APCD	Winter	2032	310.71	362.33	423.97	543.39	73.18	86.11	100.97	129.21
AD	Imperial County APCD	Winter	2033	310.71	362.40	423.97	543.46	73.18	86.15	100.98	129.26
AD	Imperial County APCD	Winter	2034	310.70	362.46	423.96	543.52	73.18	86.19	100.98	129.30
AD	Imperial County APCD	Winter	2035	310.70	362.51	423.95	543.58	73.18	86.22	100.98	129.34
AD	Kern County APCD	Annual	2010	336.08	392.10	460.74	577.53	74.06	93.66	100.99	125.79
AD	Kern County APCD	Annual	2011	336.60	392.15	460.74	578.88	73.94	91.90	100.87	125.91
AD	Kern County APCD	Annual	2012	336.72	391.78	460.32	579.53	73.83	90.38	100.77	126.04
AD	Kern County APCD	Annual	2013	336.85	391.46	460.00	580.23	73.76	89.06	100.75	126.20
AD	Kern County APCD	Annual	2014	336.97	391.23	459.75	580.93	73.68	88.03	100.72	126.38
AD	Kern County APCD	Annual	2015	337.07	391.05	459.55	581.63	73.61	87.19	100.70	126.58
AD	Kern County APCD	Annual	2016	337.08	390.85	459.24	582.18	73.59	86.61	100.72	126.80
AD	Kern County APCD	Annual	2017	337.18	390.73	459.10	582.87	73.57	85.95	100.70	127.03
AD	Kern County APCD	Annual	2018	337.24	390.67	458.98	583.45	73.54	85.51	100.67	127.24
AD	Kern County APCD	Annual	2019	337.31	390.73	458.89	583.95	73.55	85.38	100.69	127.44
AD	Kern County APCD	Annual	2020	337.37	390.79	458.81	584.40	73.62	85.36	100.74	127.63
AD	Kern County APCD	Annual	2021	338.50	392.19	460.25	586.62	73.68	85.47	100.80	127.74
AD	Kern County APCD	Annual	2022	338.52	392.29	460.18	586.87	73.72	85.56	100.85	127.82
AD	Kern County APCD	Annual	2023	338.51	392.38	460.12	587.07	73.75	85.64	100.89	127.98
AD	Kern County APCD	Annual	2024	338.48	392.46	460.06	587.20	73.76	85.71	100.92	128.12
AD	Kern County APCD	Annual	2025	338.48	392.53	460.01	587.35	73.78	85.78	100.95	128.26
AD	Kern County APCD	Annual	2026	338.50	392.63	459.97	587.56	73.79	85.84	100.97	128.40
AD	Kern County APCD	Annual	2027	338.52	392.72	459.92	587.75	73.81	85.90	100.98	128.53
AD	Kern County APCD	Annual	2028	338.53	392.80	459.88	587.93	73.82	85.95	100.99	128.65
AD	Kern County APCD	Annual	2029	338.53	392.88	459.83	588.10	73.82	86.00	100.99	128.75
AD	Kern County APCD	Annual	2030	338.52	392.95	459.78	588.27	73.82	86.04	100.98	128.85
AD	Kern County APCD	Annual	2031	338.52	393.02	459.75	588.42	73.83	86.08	100.99	128.94
AD	Kern County APCD	Annual	2032	338.52	393.08	459.73	588.57	73.83	86.12	100.99	129.02
AD	Kern County APCD	Annual	2033	338.52	393.13	459.71	588.70	73.84	86.16	100.99	129.09

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Kern County APCD	Annual	2034	338.52	393.17	459.69	588.81	73.84	86.19	101.00	129.16
AD	Kern County APCD	Annual	2035	338.52	393.20	459.67	588.91	73.84	86.21	101.00	129.22
AD	Kern County APCD	Summer	2010	370.45	428.06	505.41	634.10	74.06	93.66	100.99	125.79
AD	Kern County APCD	Summer	2011	371.25	428.88	505.98	635.59	73.94	91.90	100.87	125.91
AD	Kern County APCD	Summer	2012	371.53	429.08	505.93	636.35	73.83	90.38	100.77	126.04
AD	Kern County APCD	Summer	2013	371.80	429.22	505.88	637.24	73.76	89.06	100.75	126.20
AD	Kern County APCD	Summer	2014	372.02	429.32	505.86	638.18	73.68	88.03	100.72	126.38
AD	Kern County APCD	Summer	2015	372.21	429.42	505.83	639.13	73.61	87.19	100.70	126.58
AD	Kern County APCD	Summer	2016	372.30	429.42	505.66	640.02	73.59	86.61	100.72	126.80
AD	Kern County APCD	Summer	2017	372.46	429.55	505.63	641.01	73.57	85.95	100.70	127.03
AD	Kern County APCD	Summer	2018	372.55	429.66	505.57	641.83	73.54	85.51	100.67	127.24
AD	Kern County APCD	Summer	2019	372.63	429.83	505.50	642.53	73.55	85.38	100.69	127.44
AD	Kern County APCD	Summer	2020	372.70	430.00	505.43	643.14	73.62	85.36	100.74	127.63
AD	Kern County APCD	Summer	2021	373.95	431.58	507.02	645.71	73.68	85.47	100.80	127.74
AD	Kern County APCD	Summer	2022	373.96	431.73	506.96	646.06	73.72	85.56	100.85	127.82
AD	Kern County APCD	Summer	2023	373.95	431.88	506.89	646.33	73.75	85.64	100.89	127.98
AD	Kern County APCD	Summer	2024	373.93	431.99	506.83	646.50	73.76	85.71	100.92	128.12
AD	Kern County APCD	Summer	2025	373.93	432.11	506.78	646.66	73.78	85.78	100.95	128.26
AD	Kern County APCD	Summer	2026	373.97	432.28	506.79	646.94	73.79	85.84	100.97	128.40
AD	Kern County APCD	Summer	2027	374.00	432.43	506.79	647.19	73.81	85.90	100.98	128.53
AD	Kern County APCD	Summer	2028	374.02	432.56	506.79	647.41	73.82	85.95	100.99	128.65
AD	Kern County APCD	Summer	2029	374.04	432.69	506.77	647.62	73.82	86.00	100.99	128.75
AD	Kern County APCD	Summer	2030	374.04	432.80	506.75	647.82	73.82	86.04	100.98	128.85
AD	Kern County APCD	Summer	2031	374.04	432.90	506.73	647.98	73.83	86.08	100.99	128.94
AD	Kern County APCD	Summer	2032	374.04	432.98	506.71	648.14	73.83	86.12	100.99	129.02
AD	Kern County APCD	Summer	2033	374.04	433.05	506.68	648.28	73.84	86.16	100.99	129.09
AD	Kern County APCD	Summer	2034	374.04	433.09	506.66	648.41	73.84	86.19	101.00	129.16
AD	Kern County APCD	Summer	2035	374.03	433.12	506.63	648.53	73.84	86.21	101.00	129.22
AD	Kern County APCD	Winter	2010	325.30	380.82	446.72	559.78	74.06	93.66	100.99	125.79
AD	Kern County APCD	Winter	2011	325.73	380.63	446.54	561.09	73.94	91.90	100.87	125.91
AD	Kern County APCD	Winter	2012	325.80	380.08	446.01	561.70	73.83	90.38	100.77	126.04
AD	Kern County APCD	Winter	2013	325.89	379.61	445.61	562.35	73.76	89.06	100.75	126.20
AD	Kern County APCD	Winter	2014	325.97	379.28	445.29	562.97	73.68	88.03	100.72	126.38
AD	Kern County APCD	Winter	2015	326.05	379.02	445.03	563.59	73.61	87.19	100.70	126.58
AD	Kern County APCD	Winter	2016	326.03	378.75	444.68	564.04	73.59	86.61	100.72	126.80
AD	Kern County APCD	Winter	2017	326.12	378.55	444.51	564.64	73.57	85.95	100.70	127.03
AD	Kern County APCD	Winter	2018	326.17	378.44	444.37	565.14	73.54	85.51	100.67	127.24
AD	Kern County APCD	Winter	2019	326.23	378.47	444.27	565.58	73.55	85.38	100.69	127.44
AD	Kern County APCD	Winter	2020	326.29	378.49	444.19	565.97	73.62	85.36	100.74	127.63
AD	Kern County APCD	Winter	2021	327.38	379.84	445.58	568.09	73.68	85.47	100.80	127.74
AD	Kern County APCD	Winter	2022	327.40	379.92	445.51	568.30	73.72	85.56	100.85	127.82
AD	Kern County APCD	Winter	2023	327.39	379.99	445.45	568.48	73.75	85.64	100.89	127.98
AD	Kern County APCD	Winter	2024	327.36	380.05	445.39	568.60	73.76	85.71	100.92	128.12
AD	Kern County APCD	Winter	2025	327.36	380.12	445.34	568.75	73.78	85.78	100.95	128.26
AD	Kern County APCD	Winter	2026	327.38	380.19	445.29	568.94	73.79	85.84	100.97	128.40
AD	Kern County APCD	Winter	2027	327.39	380.27	445.22	569.11	73.81	85.90	100.98	128.53
AD	Kern County APCD	Winter	2028	327.39	380.33	445.17	569.28	73.82	85.95	100.99	128.65
AD	Kern County APCD	Winter	2029	327.39	380.39	445.11	569.43	73.82	86.00	100.99	128.75
AD	Kern County APCD	Winter	2030	327.38	380.45	445.05	569.59	73.82	86.04	100.98	128.85
AD	Kern County APCD	Winter	2031	327.38	380.51	445.02	569.73	73.83	86.08	100.99	128.94
AD	Kern County APCD	Winter	2032	327.38	380.56	445.00	569.88	73.83	86.12	100.99	129.02
AD	Kern County APCD	Winter	2033	327.38	380.61	444.98	570.01	73.84	86.16	100.99	129.09
AD	Kern County APCD	Winter	2034	327.38	380.65	444.96	570.12	73.84	86.19	101.00	129.16
AD	Kern County APCD	Winter	2035	327.38	380.68	444.94	570.22	73.84	86.21	101.00	129.22

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Lake County APCD	Annual	2010	342.07	393.50	467.77	584.22	74.77	89.34	101.91	124.46
AD	Lake County APCD	Annual	2011	342.02	394.05	467.30	584.79	74.52	88.47	101.71	124.54
AD	Lake County APCD	Annual	2012	342.06	394.51	466.93	585.54	74.36	87.81	101.56	124.69
AD	Lake County APCD	Annual	2013	342.12	394.89	466.63	586.41	74.20	87.25	101.40	124.90
AD	Lake County APCD	Annual	2014	342.14	395.21	466.41	587.25	73.98	86.77	101.22	125.12
AD	Lake County APCD	Annual	2015	342.23	395.51	466.24	588.17	73.90	86.33	101.09	125.37
AD	Lake County APCD	Annual	2016	342.33	395.78	466.10	589.06	73.88	85.99	101.00	125.66
AD	Lake County APCD	Annual	2017	342.36	396.00	465.97	589.89	73.79	85.60	100.88	125.95
AD	Lake County APCD	Annual	2018	342.39	396.17	465.87	590.62	73.73	85.27	100.83	126.22
AD	Lake County APCD	Annual	2019	342.41	396.35	465.79	591.26	73.69	85.13	100.79	126.48
AD	Lake County APCD	Annual	2020	342.44	396.52	465.72	591.82	73.77	85.14	100.79	126.73
AD	Lake County APCD	Annual	2021	342.39	396.64	465.65	592.21	73.79	85.21	100.84	126.90
AD	Lake County APCD	Annual	2022	342.31	396.75	465.57	592.55	73.78	85.27	100.85	127.07
AD	Lake County APCD	Annual	2023	342.19	396.83	465.51	592.77	73.76	85.32	100.87	127.26
AD	Lake County APCD	Annual	2024	342.07	396.89	465.44	592.97	73.71	85.36	100.88	127.45
AD	Lake County APCD	Annual	2025	342.01	396.99	465.40	593.14	73.71	85.45	100.91	127.61
AD	Lake County APCD	Annual	2026	342.02	397.10	465.36	593.32	73.73	85.55	100.93	127.78
AD	Lake County APCD	Annual	2027	342.03	397.21	465.31	593.53	73.74	85.64	100.94	127.94
AD	Lake County APCD	Annual	2028	342.03	397.32	465.27	593.73	73.75	85.72	100.95	128.09
AD	Lake County APCD	Annual	2029	342.02	397.43	465.24	593.93	73.75	85.80	100.96	128.22
AD	Lake County APCD	Annual	2030	342.00	397.54	465.21	594.14	73.75	85.88	100.95	128.35
AD	Lake County APCD	Annual	2031	342.00	397.66	465.19	594.38	73.76	85.96	100.95	128.48
AD	Lake County APCD	Annual	2032	341.99	397.76	465.18	594.62	73.76	86.03	100.96	128.61
AD	Lake County APCD	Annual	2033	341.99	397.84	465.18	594.84	73.77	86.09	100.96	128.72
AD	Lake County APCD	Annual	2034	341.98	397.92	465.17	595.03	73.77	86.15	100.97	128.82
AD	Lake County APCD	Annual	2035	341.97	397.97	465.16	595.21	73.78	86.20	100.97	128.92
AD	Lake County APCD	Summer	2010	365.54	417.38	498.77	621.97	74.77	89.34	101.91	124.46
AD	Lake County APCD	Summer	2011	365.78	418.72	498.60	622.61	74.52	88.47	101.71	124.54
AD	Lake County APCD	Summer	2012	366.03	419.77	498.49	623.54	74.36	87.81	101.56	124.69
AD	Lake County APCD	Summer	2013	366.25	420.60	498.41	624.68	74.20	87.25	101.40	124.90
AD	Lake County APCD	Summer	2014	366.39	421.26	498.37	625.78	73.98	86.77	101.22	125.12
AD	Lake County APCD	Summer	2015	366.55	421.85	498.36	627.02	73.90	86.33	101.09	125.37
AD	Lake County APCD	Summer	2016	366.69	422.33	498.33	628.23	73.88	85.99	101.00	125.66
AD	Lake County APCD	Summer	2017	366.75	422.72	498.28	629.33	73.79	85.60	100.88	125.95
AD	Lake County APCD	Summer	2018	366.77	423.03	498.21	630.31	73.73	85.27	100.83	126.22
AD	Lake County APCD	Summer	2019	366.79	423.31	498.14	631.16	73.69	85.13	100.79	126.48
AD	Lake County APCD	Summer	2020	366.81	423.55	498.08	631.89	73.77	85.14	100.79	126.73
AD	Lake County APCD	Summer	2021	366.76	423.74	498.00	632.43	73.79	85.21	100.84	126.90
AD	Lake County APCD	Summer	2022	366.67	423.91	497.93	632.88	73.78	85.27	100.85	127.07
AD	Lake County APCD	Summer	2023	366.57	424.04	497.87	633.19	73.76	85.32	100.87	127.26
AD	Lake County APCD	Summer	2024	366.46	424.16	497.81	633.47	73.71	85.36	100.88	127.45
AD	Lake County APCD	Summer	2025	366.41	424.28	497.76	633.69	73.71	85.45	100.91	127.61
AD	Lake County APCD	Summer	2026	366.43	424.42	497.70	633.89	73.73	85.55	100.93	127.78
AD	Lake County APCD	Summer	2027	366.46	424.56	497.65	634.10	73.74	85.64	100.94	127.94
AD	Lake County APCD	Summer	2028	366.47	424.70	497.62	634.32	73.75	85.72	100.95	128.09
AD	Lake County APCD	Summer	2029	366.48	424.86	497.59	634.55	73.75	85.80	100.96	128.22
AD	Lake County APCD	Summer	2030	366.48	425.00	497.56	634.80	73.75	85.88	100.95	128.35
AD	Lake County APCD	Summer	2031	366.48	425.18	497.58	635.06	73.76	85.96	100.95	128.48
AD	Lake County APCD	Summer	2032	366.47	425.33	497.59	635.34	73.76	86.03	100.96	128.61
AD	Lake County APCD	Summer	2033	366.46	425.44	497.60	635.60	73.77	86.09	100.96	128.72
AD	Lake County APCD	Summer	2034	366.45	425.54	497.60	635.84	73.77	86.15	100.97	128.82
AD	Lake County APCD	Summer	2035	366.44	425.60	497.60	636.06	73.78	86.20	100.97	128.92
AD	Lake County APCD	Winter	2010	355.28	406.94	485.21	605.47	74.77	89.34	101.91	124.46
AD	Lake County APCD	Winter	2011	355.39	407.93	484.91	606.07	74.52	88.47	101.71	124.54

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Lake County APCD	Winter	2012	355.55	408.73	484.69	606.93	74.36	87.81	101.56	124.69
AD	Lake County APCD	Winter	2013	355.70	409.36	484.52	607.95	74.20	87.25	101.40	124.90
AD	Lake County APCD	Winter	2014	355.79	409.87	484.39	608.93	73.98	86.77	101.22	125.12
AD	Lake County APCD	Winter	2015	355.91	410.33	484.31	610.03	73.90	86.33	101.09	125.37
AD	Lake County APCD	Winter	2016	356.04	410.72	484.24	611.10	73.88	85.99	101.00	125.66
AD	Lake County APCD	Winter	2017	356.08	411.04	484.15	612.08	73.79	85.60	100.88	125.95
AD	Lake County APCD	Winter	2018	356.11	411.29	484.07	612.96	73.73	85.27	100.83	126.22
AD	Lake County APCD	Winter	2019	356.13	411.52	484.00	613.71	73.69	85.13	100.79	126.48
AD	Lake County APCD	Winter	2020	356.15	411.73	483.93	614.36	73.77	85.14	100.79	126.73
AD	Lake County APCD	Winter	2021	356.11	411.89	483.85	614.84	73.79	85.21	100.84	126.90
AD	Lake County APCD	Winter	2022	356.02	412.03	483.78	615.25	73.78	85.27	100.85	127.07
AD	Lake County APCD	Winter	2023	355.91	412.15	483.72	615.52	73.76	85.32	100.87	127.26
AD	Lake County APCD	Winter	2024	355.79	412.24	483.66	615.76	73.71	85.36	100.88	127.45
AD	Lake County APCD	Winter	2025	355.74	412.35	483.61	615.96	73.71	85.45	100.91	127.61
AD	Lake County APCD	Winter	2026	355.76	412.47	483.56	616.15	73.73	85.55	100.93	127.78
AD	Lake County APCD	Winter	2027	355.78	412.60	483.51	616.36	73.74	85.64	100.94	127.94
AD	Lake County APCD	Winter	2028	355.78	412.73	483.47	616.58	73.75	85.72	100.95	128.09
AD	Lake County APCD	Winter	2029	355.78	412.87	483.44	616.79	73.75	85.80	100.96	128.22
AD	Lake County APCD	Winter	2030	355.78	412.99	483.41	617.02	73.75	85.88	100.95	128.35
AD	Lake County APCD	Winter	2031	355.77	413.15	483.42	617.27	73.76	85.96	100.95	128.48
AD	Lake County APCD	Winter	2032	355.77	413.27	483.42	617.53	73.76	86.03	100.96	128.61
AD	Lake County APCD	Winter	2033	355.76	413.37	483.42	617.77	73.77	86.09	100.96	128.72
AD	Lake County APCD	Winter	2034	355.75	413.46	483.42	618.00	73.77	86.15	100.97	128.82
AD	Lake County APCD	Winter	2035	355.74	413.52	483.42	618.20	73.78	86.20	100.97	128.92
AD	Lassen County APCD	Annual	2010	366.63	428.55	501.21	626.78	75.03	93.49	101.72	124.85
AD	Lassen County APCD	Annual	2011	366.52	427.89	500.66	627.52	74.78	92.04	101.44	124.99
AD	Lassen County APCD	Annual	2012	366.51	427.37	500.23	628.37	74.62	90.87	101.30	125.17
AD	Lassen County APCD	Annual	2013	366.45	426.93	499.88	629.27	74.35	89.90	101.18	125.38
AD	Lassen County APCD	Annual	2014	366.47	426.50	499.61	630.13	74.18	88.91	101.02	125.60
AD	Lassen County APCD	Annual	2015	366.54	426.15	499.39	631.03	74.11	88.06	100.90	125.84
AD	Lassen County APCD	Annual	2016	366.63	425.82	499.23	631.85	74.09	87.24	100.87	126.11
AD	Lassen County APCD	Annual	2017	366.62	425.58	499.09	632.62	73.95	86.60	100.80	126.37
AD	Lassen County APCD	Annual	2018	366.60	425.38	498.97	633.29	73.84	86.10	100.79	126.62
AD	Lassen County APCD	Annual	2019	366.62	425.22	498.88	633.88	73.81	85.71	100.76	126.84
AD	Lassen County APCD	Annual	2020	366.64	425.15	498.80	634.35	73.88	85.60	100.80	127.07
AD	Lassen County APCD	Annual	2021	366.58	425.05	498.73	634.71	73.90	85.58	100.85	127.25
AD	Lassen County APCD	Annual	2022	366.46	424.97	498.64	635.00	73.88	85.58	100.88	127.38
AD	Lassen County APCD	Annual	2023	366.37	424.91	498.56	635.19	73.88	85.59	100.91	127.55
AD	Lassen County APCD	Annual	2024	366.23	424.85	498.49	635.34	73.85	85.60	100.93	127.70
AD	Lassen County APCD	Annual	2025	366.17	424.91	498.44	635.47	73.85	85.67	100.96	127.84
AD	Lassen County APCD	Annual	2026	366.19	425.03	498.40	635.65	73.87	85.75	100.99	127.99
AD	Lassen County APCD	Annual	2027	366.19	425.15	498.34	635.84	73.88	85.83	101.00	128.13
AD	Lassen County APCD	Annual	2028	366.19	425.28	498.29	636.04	73.89	85.91	101.01	128.26
AD	Lassen County APCD	Annual	2029	366.17	425.41	498.23	636.23	73.89	85.98	101.01	128.38
AD	Lassen County APCD	Annual	2030	366.16	425.52	498.17	636.41	73.89	86.04	101.01	128.49
AD	Lassen County APCD	Annual	2031	366.15	425.65	498.14	636.65	73.90	86.10	101.01	128.61
AD	Lassen County APCD	Annual	2032	366.15	425.76	498.12	636.90	73.90	86.16	101.01	128.73
AD	Lassen County APCD	Annual	2033	366.15	425.86	498.09	637.12	73.91	86.22	101.02	128.83
AD	Lassen County APCD	Annual	2034	366.14	425.94	498.07	637.31	73.91	86.26	101.02	128.92
AD	Lassen County APCD	Annual	2035	366.13	426.00	498.05	637.48	73.92	86.30	101.02	129.01
AD	Lassen County APCD	Summer	2010	385.95	446.82	526.65	657.83	75.03	93.49	101.72	124.85
AD	Lassen County APCD	Summer	2011	386.07	446.99	526.29	658.69	74.78	92.04	101.44	124.99
AD	Lassen County APCD	Summer	2012	386.23	447.10	526.01	659.72	74.62	90.87	101.30	125.17
AD	Lassen County APCD	Summer	2013	386.31	447.13	525.80	660.84	74.35	89.90	101.18	125.38

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Lassen County APCD	Summer	2014	386.41	447.10	525.66	661.92	74.18	88.91	101.02	125.60
AD	Lassen County APCD	Summer	2015	386.54	447.07	525.57	663.05	74.11	88.06	100.90	125.84
AD	Lassen County APCD	Summer	2016	386.67	447.02	525.50	664.09	74.09	87.24	100.87	126.11
AD	Lassen County APCD	Summer	2017	386.67	446.98	525.44	665.06	73.95	86.60	100.80	126.37
AD	Lassen County APCD	Summer	2018	386.66	446.94	525.37	665.90	73.84	86.10	100.79	126.62
AD	Lassen County APCD	Summer	2019	386.67	446.92	525.31	666.64	73.81	85.71	100.76	126.84
AD	Lassen County APCD	Summer	2020	386.68	446.95	525.25	667.23	73.88	85.60	100.80	127.07
AD	Lassen County APCD	Summer	2021	386.62	446.96	525.18	667.70	73.90	85.58	100.85	127.25
AD	Lassen County APCD	Summer	2022	386.49	446.97	525.10	668.07	73.88	85.58	100.88	127.38
AD	Lassen County APCD	Summer	2023	386.41	446.99	525.03	668.33	73.88	85.59	100.91	127.55
AD	Lassen County APCD	Summer	2024	386.28	447.01	524.97	668.54	73.85	85.60	100.93	127.70
AD	Lassen County APCD	Summer	2025	386.22	447.11	524.92	668.73	73.85	85.67	100.96	127.84
AD	Lassen County APCD	Summer	2026	386.24	447.28	524.88	668.93	73.87	85.75	100.99	127.99
AD	Lassen County APCD	Summer	2027	386.26	447.44	524.83	669.14	73.88	85.83	101.00	128.13
AD	Lassen County APCD	Summer	2028	386.27	447.61	524.79	669.37	73.89	85.91	101.01	128.26
AD	Lassen County APCD	Summer	2029	386.27	447.79	524.74	669.59	73.89	85.98	101.01	128.38
AD	Lassen County APCD	Summer	2030	386.26	447.96	524.69	669.81	73.89	86.04	101.01	128.49
AD	Lassen County APCD	Summer	2031	386.26	448.12	524.66	670.10	73.90	86.10	101.01	128.61
AD	Lassen County APCD	Summer	2032	386.26	448.27	524.64	670.38	73.90	86.16	101.01	128.73
AD	Lassen County APCD	Summer	2033	386.25	448.40	524.62	670.64	73.91	86.22	101.02	128.83
AD	Lassen County APCD	Summer	2034	386.25	448.50	524.60	670.87	73.91	86.26	101.02	128.92
AD	Lassen County APCD	Summer	2035	386.24	448.57	524.58	671.07	73.92	86.30	101.02	129.01
AD	Lassen County APCD	Winter	2010	359.88	422.17	492.33	615.94	75.03	93.49	101.72	124.85
AD	Lassen County APCD	Winter	2011	359.69	421.22	491.71	616.64	74.78	92.04	101.44	124.99
AD	Lassen County APCD	Winter	2012	359.63	420.48	491.23	617.43	74.62	90.87	101.30	125.17
AD	Lassen County APCD	Winter	2013	359.52	419.89	490.84	618.25	74.35	89.90	101.18	125.38
AD	Lassen County APCD	Winter	2014	359.51	419.32	490.52	619.04	74.18	88.91	101.02	125.60
AD	Lassen County APCD	Winter	2015	359.57	418.85	490.26	619.85	74.11	88.06	100.90	125.84
AD	Lassen County APCD	Winter	2016	359.64	418.43	490.06	620.60	74.09	87.24	100.87	126.11
AD	Lassen County APCD	Winter	2017	359.62	418.11	489.89	621.30	73.95	86.60	100.80	126.37
AD	Lassen County APCD	Winter	2018	359.60	417.85	489.77	621.91	73.84	86.10	100.79	126.62
AD	Lassen County APCD	Winter	2019	359.62	417.65	489.66	622.44	73.81	85.71	100.76	126.84
AD	Lassen County APCD	Winter	2020	359.65	417.54	489.58	622.88	73.88	85.60	100.80	127.07
AD	Lassen County APCD	Winter	2021	359.59	417.41	489.50	623.21	73.90	85.58	100.85	127.25
AD	Lassen County APCD	Winter	2022	359.47	417.29	489.40	623.46	73.88	85.58	100.88	127.38
AD	Lassen County APCD	Winter	2023	359.38	417.21	489.33	623.63	73.88	85.59	100.91	127.55
AD	Lassen County APCD	Winter	2024	359.24	417.11	489.25	623.75	73.85	85.60	100.93	127.70
AD	Lassen County APCD	Winter	2025	359.18	417.16	489.20	623.86	73.85	85.67	100.96	127.84
AD	Lassen County APCD	Winter	2026	359.19	417.27	489.16	624.04	73.87	85.75	100.99	127.99
AD	Lassen County APCD	Winter	2027	359.18	417.38	489.10	624.22	73.88	85.83	101.00	128.13
AD	Lassen County APCD	Winter	2028	359.18	417.49	489.05	624.41	73.89	85.91	101.01	128.26
AD	Lassen County APCD	Winter	2029	359.16	417.59	488.98	624.59	73.89	85.98	101.01	128.38
AD	Lassen County APCD	Winter	2030	359.14	417.70	488.92	624.75	73.89	86.04	101.01	128.49
AD	Lassen County APCD	Winter	2031	359.14	417.80	488.89	624.98	73.90	86.10	101.01	128.61
AD	Lassen County APCD	Winter	2032	359.14	417.90	488.86	625.22	73.90	86.16	101.01	128.73
AD	Lassen County APCD	Winter	2033	359.13	417.99	488.84	625.43	73.91	86.22	101.02	128.83
AD	Lassen County APCD	Winter	2034	359.13	418.06	488.82	625.61	73.91	86.26	101.02	128.92
AD	Lassen County APCD	Winter	2035	359.12	418.13	488.80	625.76	73.92	86.30	101.02	129.01
AD	Mariposa County APCD	Annual	2010	354.50	410.51	485.83	607.63	74.37	89.51	102.09	125.68
AD	Mariposa County APCD	Annual	2011	354.40	410.55	485.11	608.19	74.22	88.77	101.86	125.71
AD	Mariposa County APCD	Annual	2012	354.31	410.56	484.54	608.86	74.03	88.15	101.71	125.79
AD	Mariposa County APCD	Annual	2013	354.36	410.52	484.09	609.60	73.97	87.50	101.57	125.92
AD	Mariposa County APCD	Annual	2014	354.33	410.46	483.72	610.33	73.82	86.87	101.30	126.07
AD	Mariposa County APCD	Annual	2015	354.43	410.47	483.42	611.09	73.83	86.45	101.16	126.26

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Mariposa County APCD	Annual	2016	354.48	410.49	483.19	611.81	73.80	86.11	101.08	126.48
AD	Mariposa County APCD	Annual	2017	354.51	410.47	483.00	612.49	73.77	85.68	101.00	126.70
AD	Mariposa County APCD	Annual	2018	354.51	410.48	482.83	613.06	73.71	85.43	100.90	126.90
AD	Mariposa County APCD	Annual	2019	354.47	410.55	482.70	613.53	73.61	85.35	100.87	127.11
AD	Mariposa County APCD	Annual	2020	354.41	410.60	482.59	613.96	73.65	85.32	100.89	127.30
AD	Mariposa County APCD	Annual	2021	354.35	410.60	482.48	614.20	73.67	85.35	100.93	127.34
AD	Mariposa County APCD	Annual	2022	354.26	410.63	482.35	614.40	73.67	85.40	100.94	127.39
AD	Mariposa County APCD	Annual	2023	354.08	410.62	482.24	614.56	73.64	85.42	100.94	127.56
AD	Mariposa County APCD	Annual	2024	353.92	410.60	482.16	614.67	73.60	85.46	100.96	127.71
AD	Mariposa County APCD	Annual	2025	353.86	410.66	482.10	614.79	73.60	85.52	100.99	127.87
AD	Mariposa County APCD	Annual	2026	353.86	410.81	482.03	614.95	73.62	85.62	101.00	128.02
AD	Mariposa County APCD	Annual	2027	353.86	410.93	481.97	615.12	73.63	85.71	101.01	128.16
AD	Mariposa County APCD	Annual	2028	353.85	411.06	481.91	615.29	73.64	85.79	101.02	128.29
AD	Mariposa County APCD	Annual	2029	353.83	411.19	481.84	615.47	73.64	85.87	101.02	128.41
AD	Mariposa County APCD	Annual	2030	353.81	411.31	481.77	615.62	73.64	85.94	101.01	128.52
AD	Mariposa County APCD	Annual	2031	353.81	411.44	481.74	615.85	73.65	86.01	101.01	128.65
AD	Mariposa County APCD	Annual	2032	353.80	411.54	481.71	616.07	73.65	86.08	101.02	128.76
AD	Mariposa County APCD	Annual	2033	353.80	411.63	481.68	616.27	73.66	86.13	101.02	128.86
AD	Mariposa County APCD	Annual	2034	353.79	411.70	481.65	616.45	73.66	86.19	101.02	128.96
AD	Mariposa County APCD	Annual	2035	353.78	411.77	481.63	616.61	73.67	86.23	101.02	129.05
AD	Mariposa County APCD	Summer	2010	383.75	439.08	524.10	654.73	74.37	89.51	102.09	125.68
AD	Mariposa County APCD	Summer	2011	383.98	440.10	523.79	655.48	74.22	88.77	101.86	125.71
AD	Mariposa County APCD	Summer	2012	384.14	440.90	523.54	656.41	74.03	88.15	101.71	125.79
AD	Mariposa County APCD	Summer	2013	384.37	441.53	523.38	657.50	73.97	87.50	101.57	125.92
AD	Mariposa County APCD	Summer	2014	384.48	442.00	523.29	658.57	73.82	86.87	101.30	126.07
AD	Mariposa County APCD	Summer	2015	384.66	442.44	523.21	659.71	73.83	86.45	101.16	126.26
AD	Mariposa County APCD	Summer	2016	384.77	442.80	523.13	660.80	73.80	86.11	101.08	126.48
AD	Mariposa County APCD	Summer	2017	384.83	443.08	523.05	661.80	73.77	85.68	101.00	126.70
AD	Mariposa County APCD	Summer	2018	384.83	443.32	522.95	662.65	73.71	85.43	100.90	126.90
AD	Mariposa County APCD	Summer	2019	384.80	443.56	522.85	663.34	73.61	85.35	100.87	127.11
AD	Mariposa County APCD	Summer	2020	384.74	443.78	522.76	663.97	73.65	85.32	100.89	127.30
AD	Mariposa County APCD	Summer	2021	384.68	443.93	522.65	664.40	73.67	85.35	100.93	127.34
AD	Mariposa County APCD	Summer	2022	384.58	444.09	522.56	664.75	73.67	85.40	100.94	127.39
AD	Mariposa County APCD	Summer	2023	384.42	444.21	522.47	665.02	73.64	85.42	100.94	127.56
AD	Mariposa County APCD	Summer	2024	384.29	444.31	522.40	665.20	73.60	85.46	100.96	127.71
AD	Mariposa County APCD	Summer	2025	384.24	444.44	522.34	665.37	73.60	85.52	100.99	127.87
AD	Mariposa County APCD	Summer	2026	384.25	444.68	522.29	665.56	73.62	85.62	101.00	128.02
AD	Mariposa County APCD	Summer	2027	384.26	444.88	522.24	665.76	73.63	85.71	101.01	128.16
AD	Mariposa County APCD	Summer	2028	384.26	445.08	522.20	665.98	73.64	85.79	101.02	128.29
AD	Mariposa County APCD	Summer	2029	384.26	445.29	522.15	666.20	73.64	85.87	101.02	128.41
AD	Mariposa County APCD	Summer	2030	384.25	445.48	522.11	666.42	73.64	85.94	101.01	128.52
AD	Mariposa County APCD	Summer	2031	384.25	445.67	522.08	666.71	73.65	86.01	101.01	128.65
AD	Mariposa County APCD	Summer	2032	384.25	445.81	522.06	667.00	73.65	86.08	101.02	128.76
AD	Mariposa County APCD	Summer	2033	384.25	445.93	522.04	667.26	73.66	86.13	101.02	128.86
AD	Mariposa County APCD	Summer	2034	384.24	446.03	522.02	667.49	73.66	86.19	101.02	128.96
AD	Mariposa County APCD	Summer	2035	384.23	446.10	521.99	667.70	73.67	86.23	101.02	129.05
AD	Mariposa County APCD	Winter	2010	347.30	403.48	476.41	596.03	74.37	89.51	102.09	125.68
AD	Mariposa County APCD	Winter	2011	347.12	403.27	475.59	596.55	74.22	88.77	101.86	125.71
AD	Mariposa County APCD	Winter	2012	346.97	403.10	474.94	597.15	74.03	88.15	101.71	125.79
AD	Mariposa County APCD	Winter	2013	346.97	402.89	474.42	597.81	73.97	87.50	101.57	125.92
AD	Mariposa County APCD	Winter	2014	346.91	402.69	473.97	598.45	73.82	86.87	101.30	126.07
AD	Mariposa County APCD	Winter	2015	346.99	402.60	473.63	599.12	73.83	86.45	101.16	126.26
AD	Mariposa County APCD	Winter	2016	347.02	402.54	473.35	599.75	73.80	86.11	101.08	126.48
AD	Mariposa County APCD	Winter	2017	347.05	402.44	473.14	600.35	73.77	85.68	101.00	126.70

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Mariposa County APCD	Winter	2018	347.05	402.40	472.95	600.86	73.71	85.43	100.90	126.90
AD	Mariposa County APCD	Winter	2019	347.00	402.43	472.82	601.27	73.61	85.35	100.87	127.11
AD	Mariposa County APCD	Winter	2020	346.95	402.43	472.71	601.65	73.65	85.32	100.89	127.30
AD	Mariposa County APCD	Winter	2021	346.89	402.39	472.58	601.84	73.67	85.35	100.93	127.34
AD	Mariposa County APCD	Winter	2022	346.79	402.39	472.45	602.00	73.67	85.40	100.94	127.39
AD	Mariposa County APCD	Winter	2023	346.62	402.35	472.34	602.13	73.64	85.42	100.94	127.56
AD	Mariposa County APCD	Winter	2024	346.44	402.31	472.26	602.23	73.60	85.46	100.96	127.71
AD	Mariposa County APCD	Winter	2025	346.39	402.35	472.20	602.34	73.60	85.52	100.99	127.87
AD	Mariposa County APCD	Winter	2026	346.39	402.47	472.12	602.49	73.62	85.62	101.00	128.02
AD	Mariposa County APCD	Winter	2027	346.37	402.58	472.05	602.65	73.63	85.71	101.01	128.16
AD	Mariposa County APCD	Winter	2028	346.37	402.69	472.00	602.81	73.64	85.79	101.02	128.29
AD	Mariposa County APCD	Winter	2029	346.35	402.80	471.92	602.98	73.64	85.87	101.02	128.41
AD	Mariposa County APCD	Winter	2030	346.32	402.90	471.85	603.12	73.64	85.94	101.01	128.52
AD	Mariposa County APCD	Winter	2031	346.31	403.01	471.81	603.33	73.65	86.01	101.01	128.65
AD	Mariposa County APCD	Winter	2032	346.31	403.10	471.78	603.54	73.65	86.08	101.02	128.76
AD	Mariposa County APCD	Winter	2033	346.30	403.18	471.75	603.72	73.66	86.13	101.02	128.86
AD	Mariposa County APCD	Winter	2034	346.29	403.25	471.72	603.89	73.66	86.19	101.02	128.96
AD	Mariposa County APCD	Winter	2035	346.28	403.31	471.70	604.03	73.67	86.23	101.02	129.05
AD	Mendocino County APCD	Annual	2010	328.61	379.07	451.10	562.37	72.79	86.74	100.94	123.79
AD	Mendocino County APCD	Annual	2011	328.64	379.33	450.55	563.04	72.74	86.20	100.83	123.99
AD	Mendocino County APCD	Annual	2012	328.71	379.62	450.13	563.82	72.71	85.88	100.79	124.25
AD	Mendocino County APCD	Annual	2013	328.81	379.86	449.78	564.69	72.69	85.57	100.77	124.53
AD	Mendocino County APCD	Annual	2014	328.91	380.10	449.50	565.53	72.66	85.38	100.70	124.83
AD	Mendocino County APCD	Annual	2015	329.05	380.33	449.28	566.42	72.71	85.22	100.68	125.15
AD	Mendocino County APCD	Annual	2016	329.20	380.54	449.10	567.26	72.78	85.05	100.67	125.47
AD	Mendocino County APCD	Annual	2017	329.29	380.71	448.96	568.05	72.79	84.90	100.65	125.80
AD	Mendocino County APCD	Annual	2018	329.36	380.86	448.84	568.75	72.80	84.79	100.64	126.10
AD	Mendocino County APCD	Annual	2019	329.41	381.04	448.75	569.35	72.81	84.81	100.66	126.39
AD	Mendocino County APCD	Annual	2020	329.46	381.20	448.68	569.87	72.90	84.89	100.71	126.66
AD	Mendocino County APCD	Annual	2021	329.47	381.32	448.60	570.28	72.95	85.00	100.77	126.88
AD	Mendocino County APCD	Annual	2022	329.44	381.41	448.52	570.63	72.98	85.10	100.81	127.08
AD	Mendocino County APCD	Annual	2023	329.37	381.48	448.45	570.90	72.99	85.18	100.85	127.29
AD	Mendocino County APCD	Annual	2024	329.30	381.52	448.37	571.09	72.98	85.26	100.87	127.48
AD	Mendocino County APCD	Annual	2025	329.26	381.61	448.33	571.27	72.99	85.36	100.90	127.65
AD	Mendocino County APCD	Annual	2026	329.27	381.77	448.27	571.47	73.01	85.47	100.93	127.81
AD	Mendocino County APCD	Annual	2027	329.27	381.91	448.22	571.68	73.03	85.57	100.94	127.97
AD	Mendocino County APCD	Annual	2028	329.27	382.05	448.17	571.89	73.03	85.66	100.96	128.11
AD	Mendocino County APCD	Annual	2029	329.25	382.19	448.10	572.09	73.04	85.75	100.95	128.24
AD	Mendocino County APCD	Annual	2030	329.24	382.33	448.03	572.30	73.04	85.83	100.95	128.37
AD	Mendocino County APCD	Annual	2031	329.23	382.47	448.00	572.53	73.05	85.91	100.96	128.50
AD	Mendocino County APCD	Annual	2032	329.23	382.60	447.97	572.77	73.06	85.98	100.96	128.62
AD	Mendocino County APCD	Annual	2033	329.22	382.71	447.95	572.98	73.06	86.05	100.96	128.73
AD	Mendocino County APCD	Annual	2034	329.22	382.81	447.93	573.17	73.07	86.11	100.97	128.83
AD	Mendocino County APCD	Annual	2035	329.21	382.89	447.91	573.33	73.07	86.16	100.97	128.93
AD	Mendocino County APCD	Summer	2010	335.50	385.93	460.22	573.75	72.79	86.74	100.94	123.79
AD	Mendocino County APCD	Summer	2011	335.60	386.40	459.76	574.44	72.74	86.20	100.83	123.99
AD	Mendocino County APCD	Summer	2012	335.73	386.85	459.39	575.26	72.71	85.88	100.79	124.25
AD	Mendocino County APCD	Summer	2013	335.88	387.22	459.11	576.18	72.69	85.57	100.77	124.53
AD	Mendocino County APCD	Summer	2014	336.01	387.57	458.87	577.08	72.66	85.38	100.70	124.83
AD	Mendocino County APCD	Summer	2015	336.17	387.90	458.70	578.04	72.71	85.22	100.68	125.15
AD	Mendocino County APCD	Summer	2016	336.34	388.18	458.56	578.96	72.78	85.05	100.67	125.47
AD	Mendocino County APCD	Summer	2017	336.43	388.42	458.43	579.82	72.79	84.90	100.65	125.80
AD	Mendocino County APCD	Summer	2018	336.49	388.62	458.33	580.57	72.80	84.79	100.64	126.10
AD	Mendocino County APCD	Summer	2019	336.54	388.83	458.25	581.22	72.81	84.81	100.66	126.39

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Mendocino County APCD	Summer	2020	336.59	389.03	458.18	581.78	72.90	84.89	100.71	126.66
AD	Mendocino County APCD	Summer	2021	336.60	389.18	458.11	582.21	72.95	85.00	100.77	126.88
AD	Mendocino County APCD	Summer	2022	336.57	389.31	458.03	582.59	72.98	85.10	100.81	127.08
AD	Mendocino County APCD	Summer	2023	336.50	389.40	457.96	582.88	72.99	85.18	100.85	127.29
AD	Mendocino County APCD	Summer	2024	336.43	389.46	457.89	583.08	72.98	85.26	100.87	127.48
AD	Mendocino County APCD	Summer	2025	336.39	389.57	457.85	583.26	72.99	85.36	100.90	127.65
AD	Mendocino County APCD	Summer	2026	336.40	389.75	457.79	583.47	73.01	85.47	100.93	127.81
AD	Mendocino County APCD	Summer	2027	336.41	389.91	457.74	583.68	73.03	85.57	100.94	127.97
AD	Mendocino County APCD	Summer	2028	336.41	390.07	457.70	583.89	73.03	85.66	100.96	128.11
AD	Mendocino County APCD	Summer	2029	336.40	390.24	457.63	584.11	73.04	85.75	100.95	128.24
AD	Mendocino County APCD	Summer	2030	336.39	390.39	457.57	584.32	73.04	85.83	100.95	128.37
AD	Mendocino County APCD	Summer	2031	336.39	390.55	457.53	584.57	73.05	85.91	100.96	128.50
AD	Mendocino County APCD	Summer	2032	336.38	390.69	457.51	584.82	73.06	85.98	100.96	128.62
AD	Mendocino County APCD	Summer	2033	336.38	390.81	457.48	585.05	73.06	86.05	100.96	128.73
AD	Mendocino County APCD	Summer	2034	336.37	390.92	457.46	585.25	73.07	86.11	100.97	128.83
AD	Mendocino County APCD	Summer	2035	336.36	391.01	457.44	585.42	73.07	86.16	100.97	128.93
AD	Mendocino County APCD	Winter	2010	325.36	375.84	446.80	556.99	72.79	86.74	100.94	123.79
AD	Mendocino County APCD	Winter	2011	325.35	375.99	446.21	557.66	72.74	86.20	100.83	123.99
AD	Mendocino County APCD	Winter	2012	325.39	376.21	445.75	558.43	72.71	85.88	100.79	124.25
AD	Mendocino County APCD	Winter	2013	325.47	376.38	445.38	559.27	72.69	85.57	100.77	124.53
AD	Mendocino County APCD	Winter	2014	325.56	376.57	445.08	560.08	72.66	85.38	100.70	124.83
AD	Mendocino County APCD	Winter	2015	325.69	376.77	444.84	560.93	72.71	85.22	100.68	125.15
AD	Mendocino County APCD	Winter	2016	325.84	376.93	444.64	561.74	72.78	85.05	100.67	125.47
AD	Mendocino County APCD	Winter	2017	325.92	377.08	444.49	562.50	72.79	84.90	100.65	125.80
AD	Mendocino County APCD	Winter	2018	325.99	377.20	444.36	563.17	72.80	84.79	100.64	126.10
AD	Mendocino County APCD	Winter	2019	326.04	377.36	444.27	563.75	72.81	84.81	100.66	126.39
AD	Mendocino County APCD	Winter	2020	326.10	377.51	444.20	564.26	72.90	84.89	100.71	126.66
AD	Mendocino County APCD	Winter	2021	326.10	377.61	444.12	564.65	72.95	85.00	100.77	126.88
AD	Mendocino County APCD	Winter	2022	326.08	377.69	444.04	564.99	72.98	85.10	100.81	127.08
AD	Mendocino County APCD	Winter	2023	326.01	377.75	443.96	565.25	72.99	85.18	100.85	127.29
AD	Mendocino County APCD	Winter	2024	325.93	377.77	443.88	565.44	72.98	85.26	100.87	127.48
AD	Mendocino County APCD	Winter	2025	325.89	377.86	443.83	565.61	72.99	85.36	100.90	127.65
AD	Mendocino County APCD	Winter	2026	325.90	378.00	443.78	565.81	73.01	85.47	100.93	127.81
AD	Mendocino County APCD	Winter	2027	325.90	378.13	443.72	566.01	73.03	85.57	100.94	127.97
AD	Mendocino County APCD	Winter	2028	325.90	378.27	443.68	566.22	73.03	85.66	100.96	128.11
AD	Mendocino County APCD	Winter	2029	325.88	378.40	443.60	566.42	73.04	85.75	100.95	128.24
AD	Mendocino County APCD	Winter	2030	325.86	378.53	443.54	566.62	73.04	85.83	100.95	128.37
AD	Mendocino County APCD	Winter	2031	325.86	378.66	443.50	566.86	73.05	85.91	100.96	128.50
AD	Mendocino County APCD	Winter	2032	325.85	378.78	443.47	567.09	73.06	85.98	100.96	128.62
AD	Mendocino County APCD	Winter	2033	325.85	378.89	443.45	567.29	73.06	86.05	100.96	128.73
AD	Mendocino County APCD	Winter	2034	325.84	378.99	443.43	567.47	73.07	86.11	100.97	128.83
AD	Mendocino County APCD	Winter	2035	325.83	379.07	443.41	567.63	73.07	86.16	100.97	128.93
AD	Modoc County APCD	Annual	2010	408.79	488.59	560.53	697.57	74.87	100.48	102.62	125.01
AD	Modoc County APCD	Annual	2011	408.63	485.64	559.72	698.46	74.72	97.48	102.30	125.08
AD	Modoc County APCD	Annual	2012	408.43	483.59	559.09	699.50	74.39	95.30	102.13	125.22
AD	Modoc County APCD	Annual	2013	408.39	482.13	558.57	700.69	74.23	93.74	101.93	125.38
AD	Modoc County APCD	Annual	2014	408.30	480.62	558.13	701.74	73.97	91.96	101.58	125.59
AD	Modoc County APCD	Annual	2015	408.25	479.23	557.81	702.85	73.76	90.19	101.45	125.82
AD	Modoc County APCD	Annual	2016	408.36	478.26	557.54	703.92	73.79	88.96	101.31	126.08
AD	Modoc County APCD	Annual	2017	408.32	477.36	557.31	704.96	73.64	87.77	101.05	126.34
AD	Modoc County APCD	Annual	2018	408.22	476.76	557.13	705.82	73.43	87.03	100.91	126.59
AD	Modoc County APCD	Annual	2019	408.20	476.34	556.98	706.60	73.35	86.56	100.78	126.79
AD	Modoc County APCD	Annual	2020	408.15	475.96	556.87	707.25	73.39	86.27	100.81	127.00
AD	Modoc County APCD	Annual	2021	408.10	475.54	556.77	707.69	73.42	86.13	100.87	127.13

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Modoc County APCD	Annual	2022	408.00	475.17	556.62	708.03	73.42	86.00	100.88	127.20
AD	Modoc County APCD	Annual	2023	407.93	474.79	556.52	708.27	73.44	85.87	100.91	127.38
AD	Modoc County APCD	Annual	2024	407.79	474.58	556.39	708.49	73.41	85.82	100.92	127.55
AD	Modoc County APCD	Annual	2025	407.72	474.59	556.34	708.71	73.41	85.87	100.96	127.72
AD	Modoc County APCD	Annual	2026	407.73	474.69	556.26	709.00	73.43	85.94	100.98	127.90
AD	Modoc County APCD	Annual	2027	407.73	474.80	556.20	709.30	73.44	86.00	100.99	128.07
AD	Modoc County APCD	Annual	2028	407.71	474.90	556.15	709.60	73.44	86.06	101.01	128.22
AD	Modoc County APCD	Annual	2029	407.70	475.01	556.08	709.88	73.45	86.12	101.01	128.36
AD	Modoc County APCD	Annual	2030	407.68	475.10	556.00	710.15	73.45	86.17	101.01	128.50
AD	Modoc County APCD	Annual	2031	407.69	475.22	555.95	710.46	73.45	86.22	101.01	128.63
AD	Modoc County APCD	Annual	2032	407.68	475.32	555.91	710.77	73.46	86.27	101.01	128.76
AD	Modoc County APCD	Annual	2033	407.68	475.40	555.88	711.04	73.47	86.31	101.01	128.87
AD	Modoc County APCD	Annual	2034	407.67	475.47	555.85	711.29	73.47	86.35	101.01	128.97
AD	Modoc County APCD	Annual	2035	407.66	475.53	555.81	711.49	73.48	86.38	101.02	129.07
AD	Modoc County APCD	Summer	2010	425.39	503.36	582.23	724.10	74.87	100.48	102.62	125.01
AD	Modoc County APCD	Summer	2011	425.44	501.48	581.68	725.15	74.72	97.48	102.30	125.08
AD	Modoc County APCD	Summer	2012	425.41	500.15	581.24	726.37	74.39	95.30	102.13	125.22
AD	Modoc County APCD	Summer	2013	425.50	499.17	580.90	727.80	74.23	93.74	101.93	125.38
AD	Modoc County APCD	Summer	2014	425.50	498.13	580.66	729.05	73.97	91.96	101.58	125.59
AD	Modoc County APCD	Summer	2015	425.50	497.14	580.45	730.41	73.76	90.19	101.45	125.82
AD	Modoc County APCD	Summer	2016	425.64	496.45	580.30	731.70	73.79	88.96	101.31	126.08
AD	Modoc County APCD	Summer	2017	425.62	495.80	580.16	732.94	73.64	87.77	101.05	126.34
AD	Modoc County APCD	Summer	2018	425.52	495.35	580.02	733.96	73.43	87.03	100.91	126.59
AD	Modoc County APCD	Summer	2019	425.50	495.06	579.91	734.91	73.35	86.56	100.78	126.79
AD	Modoc County APCD	Summer	2020	425.44	494.80	579.80	735.68	73.39	86.27	100.81	127.00
AD	Modoc County APCD	Summer	2021	425.39	494.51	579.70	736.23	73.42	86.13	100.87	127.13
AD	Modoc County APCD	Summer	2022	425.28	494.26	579.57	736.66	73.42	86.00	100.88	127.20
AD	Modoc County APCD	Summer	2023	425.21	493.99	579.47	736.98	73.44	85.87	100.91	127.38
AD	Modoc County APCD	Summer	2024	425.08	493.85	579.37	737.26	73.41	85.82	100.92	127.55
AD	Modoc County APCD	Summer	2025	425.02	493.90	579.31	737.53	73.41	85.87	100.96	127.72
AD	Modoc County APCD	Summer	2026	425.03	494.03	579.22	737.87	73.43	85.94	100.98	127.90
AD	Modoc County APCD	Summer	2027	425.04	494.17	579.16	738.21	73.44	86.00	100.99	128.07
AD	Modoc County APCD	Summer	2028	425.05	494.30	579.11	738.56	73.44	86.06	101.01	128.22
AD	Modoc County APCD	Summer	2029	425.05	494.46	579.05	738.88	73.45	86.12	101.01	128.36
AD	Modoc County APCD	Summer	2030	425.04	494.57	578.98	739.20	73.45	86.17	101.01	128.50
AD	Modoc County APCD	Summer	2031	425.05	494.75	578.95	739.54	73.45	86.22	101.01	128.63
AD	Modoc County APCD	Summer	2032	425.05	494.88	578.93	739.88	73.46	86.27	101.01	128.76
AD	Modoc County APCD	Summer	2033	425.05	494.99	578.91	740.18	73.47	86.31	101.01	128.87
AD	Modoc County APCD	Summer	2034	425.04	495.08	578.89	740.44	73.47	86.35	101.01	128.97
AD	Modoc County APCD	Summer	2035	425.03	495.14	578.86	740.68	73.48	86.38	101.02	129.07
AD	Modoc County APCD	Winter	2010	403.43	483.82	553.52	689.00	74.87	100.48	102.62	125.01
AD	Modoc County APCD	Winter	2011	403.20	480.53	552.63	689.84	74.72	97.48	102.30	125.08
AD	Modoc County APCD	Winter	2012	402.94	478.25	551.93	690.82	74.39	95.30	102.13	125.22
AD	Modoc County APCD	Winter	2013	402.86	476.62	551.35	691.93	74.23	93.74	101.93	125.38
AD	Modoc County APCD	Winter	2014	402.75	474.97	550.86	692.91	73.97	91.96	101.58	125.59
AD	Modoc County APCD	Winter	2015	402.67	473.44	550.49	693.96	73.76	90.19	101.45	125.82
AD	Modoc County APCD	Winter	2016	402.78	472.38	550.19	694.95	73.79	88.96	101.31	126.08
AD	Modoc County APCD	Winter	2017	402.74	471.40	549.93	695.92	73.64	87.77	101.05	126.34
AD	Modoc County APCD	Winter	2018	402.64	470.75	549.73	696.72	73.43	87.03	100.91	126.59
AD	Modoc County APCD	Winter	2019	402.61	470.29	549.57	697.46	73.35	86.56	100.78	126.79
AD	Modoc County APCD	Winter	2020	402.56	469.87	549.46	698.07	73.39	86.27	100.81	127.00
AD	Modoc County APCD	Winter	2021	402.52	469.41	549.36	698.48	73.42	86.13	100.87	127.13
AD	Modoc County APCD	Winter	2022	402.41	469.01	549.21	698.78	73.42	86.00	100.88	127.20
AD	Modoc County APCD	Winter	2023	402.35	468.59	549.10	699.00	73.44	85.87	100.91	127.38

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Modoc County APCD	Winter	2024	402.21	468.35	548.97	699.20	73.41	85.82	100.92	127.55
AD	Modoc County APCD	Winter	2025	402.14	468.36	548.91	699.40	73.41	85.87	100.96	127.72
AD	Modoc County APCD	Winter	2026	402.14	468.45	548.84	699.67	73.43	85.94	100.98	127.90
AD	Modoc County APCD	Winter	2027	402.13	468.54	548.78	699.96	73.44	86.00	100.99	128.07
AD	Modoc County APCD	Winter	2028	402.11	468.63	548.73	700.25	73.44	86.06	101.01	128.22
AD	Modoc County APCD	Winter	2029	402.10	468.72	548.66	700.50	73.45	86.12	101.01	128.36
AD	Modoc County APCD	Winter	2030	402.08	468.81	548.57	700.77	73.45	86.17	101.01	128.50
AD	Modoc County APCD	Winter	2031	402.08	468.91	548.52	701.07	73.45	86.22	101.01	128.63
AD	Modoc County APCD	Winter	2032	402.08	469.00	548.47	701.37	73.46	86.27	101.01	128.76
AD	Modoc County APCD	Winter	2033	402.07	469.08	548.44	701.63	73.47	86.31	101.01	128.87
AD	Modoc County APCD	Winter	2034	402.06	469.14	548.40	701.87	73.47	86.35	101.01	128.97
AD	Modoc County APCD	Winter	2035	402.05	469.20	548.37	702.06	73.48	86.38	101.02	129.07
AD	Mojave Desert AQMD	Annual	2010	343.05	394.06	468.76	591.38	73.41	85.48	100.04	125.17
AD	Mojave Desert AQMD	Annual	2011	342.29	393.63	467.24	590.34	73.41	85.20	100.07	125.44
AD	Mojave Desert AQMD	Annual	2012	342.53	394.30	467.14	591.14	73.44	85.03	100.14	125.71
AD	Mojave Desert AQMD	Annual	2013	341.38	393.17	465.19	589.42	73.47	84.92	100.21	125.99
AD	Mojave Desert AQMD	Annual	2014	341.59	393.65	465.17	590.21	73.49	84.81	100.26	126.27
AD	Mojave Desert AQMD	Annual	2015	338.75	390.36	460.98	585.50	73.53	84.76	100.32	126.55
AD	Mojave Desert AQMD	Annual	2016	338.93	390.74	460.98	586.19	73.58	84.74	100.39	126.82
AD	Mojave Desert AQMD	Annual	2017	339.08	391.08	460.98	586.83	73.61	84.71	100.44	127.08
AD	Mojave Desert AQMD	Annual	2018	339.19	391.37	460.98	587.37	73.63	84.72	100.49	127.32
AD	Mojave Desert AQMD	Annual	2019	338.63	390.87	460.03	586.67	73.67	84.83	100.55	127.55
AD	Mojave Desert AQMD	Annual	2020	338.73	391.16	460.03	587.11	73.75	84.98	100.63	127.76
AD	Mojave Desert AQMD	Annual	2021	338.49	390.98	459.55	586.82	73.81	85.14	100.70	127.93
AD	Mojave Desert AQMD	Annual	2022	338.53	391.22	459.56	587.12	73.85	85.27	100.76	128.07
AD	Mojave Desert AQMD	Annual	2023	338.54	391.42	459.56	587.36	73.88	85.39	100.81	128.23
AD	Mojave Desert AQMD	Annual	2024	340.10	393.08	461.41	589.95	73.90	85.50	100.85	128.37
AD	Mojave Desert AQMD	Annual	2025	340.11	393.24	461.42	590.15	73.91	85.59	100.89	128.50
AD	Mojave Desert AQMD	Annual	2026	340.14	393.40	461.41	590.33	73.93	85.68	100.92	128.62
AD	Mojave Desert AQMD	Annual	2027	340.16	393.55	461.40	590.50	73.94	85.76	100.94	128.72
AD	Mojave Desert AQMD	Annual	2028	340.18	393.70	461.40	590.67	73.95	85.84	100.95	128.82
AD	Mojave Desert AQMD	Annual	2029	340.20	393.85	461.40	590.84	73.96	85.91	100.96	128.90
AD	Mojave Desert AQMD	Annual	2030	340.22	393.99	461.40	591.00	73.96	85.97	100.97	128.98
AD	Mojave Desert AQMD	Annual	2031	342.78	396.53	464.37	595.11	73.96	86.03	100.98	129.06
AD	Mojave Desert AQMD	Annual	2032	342.80	396.66	464.38	595.29	73.97	86.09	100.98	129.13
AD	Mojave Desert AQMD	Annual	2033	342.81	396.77	464.39	595.46	73.97	86.13	100.99	129.19
AD	Mojave Desert AQMD	Annual	2034	342.83	396.88	464.41	595.62	73.97	86.18	100.99	129.24
AD	Mojave Desert AQMD	Annual	2035	342.85	396.97	464.43	595.76	73.98	86.22	101.00	129.29
AD	Mojave Desert AQMD	Summer	2010	368.41	420.54	502.82	633.92	73.41	85.48	100.04	125.17
AD	Mojave Desert AQMD	Summer	2011	367.55	420.78	501.45	632.76	73.41	85.20	100.07	125.44
AD	Mojave Desert AQMD	Summer	2012	367.74	422.01	501.49	633.58	73.44	85.03	100.14	125.71
AD	Mojave Desert AQMD	Summer	2013	366.36	420.99	499.44	631.63	73.47	84.92	100.21	125.99
AD	Mojave Desert AQMD	Summer	2014	366.44	421.63	499.44	632.39	73.49	84.81	100.26	126.27
AD	Mojave Desert AQMD	Summer	2015	363.25	418.10	494.94	627.28	73.53	84.76	100.32	126.55
AD	Mojave Desert AQMD	Summer	2016	363.37	418.49	494.93	627.96	73.58	84.74	100.39	126.82
AD	Mojave Desert AQMD	Summer	2017	363.42	418.82	494.89	628.59	73.61	84.71	100.44	127.08
AD	Mojave Desert AQMD	Summer	2018	363.43	419.07	494.81	629.09	73.63	84.72	100.49	127.32
AD	Mojave Desert AQMD	Summer	2019	362.72	418.47	493.69	628.25	73.67	84.83	100.55	127.55
AD	Mojave Desert AQMD	Summer	2020	362.73	418.73	493.60	628.67	73.75	84.98	100.63	127.76
AD	Mojave Desert AQMD	Summer	2021	362.41	418.50	492.93	628.23	73.81	85.14	100.70	127.93
AD	Mojave Desert AQMD	Summer	2022	362.41	418.75	492.84	628.48	73.85	85.27	100.76	128.07
AD	Mojave Desert AQMD	Summer	2023	362.38	418.95	492.74	628.63	73.88	85.39	100.81	128.23
AD	Mojave Desert AQMD	Summer	2024	363.89	420.61	494.47	631.12	73.90	85.50	100.85	128.37
AD	Mojave Desert AQMD	Summer	2025	363.86	420.78	494.42	631.25	73.91	85.59	100.89	128.50

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Mojave Desert AQMD	Summer	2026	363.86	420.97	494.37	631.36	73.93	85.68	100.92	128.62
AD	Mojave Desert AQMD	Summer	2027	363.84	421.14	494.32	631.45	73.94	85.76	100.94	128.72
AD	Mojave Desert AQMD	Summer	2028	363.82	421.29	494.28	631.55	73.95	85.84	100.95	128.82
AD	Mojave Desert AQMD	Summer	2029	363.80	421.45	494.24	631.64	73.96	85.91	100.96	128.90
AD	Mojave Desert AQMD	Summer	2030	363.78	421.60	494.20	631.73	73.96	85.97	100.97	128.98
AD	Mojave Desert AQMD	Summer	2031	366.32	424.18	497.16	635.80	73.96	86.03	100.98	129.06
AD	Mojave Desert AQMD	Summer	2032	366.30	424.34	497.16	635.94	73.97	86.09	100.98	129.13
AD	Mojave Desert AQMD	Summer	2033	366.29	424.48	497.16	636.07	73.97	86.13	100.99	129.19
AD	Mojave Desert AQMD	Summer	2034	366.28	424.59	497.16	636.19	73.97	86.18	100.99	129.24
AD	Mojave Desert AQMD	Summer	2035	366.27	424.67	497.16	636.30	73.98	86.22	101.00	129.29
AD	Mojave Desert AQMD	Winter	2010	329.23	380.23	450.90	569.02	73.41	85.48	100.04	125.17
AD	Mojave Desert AQMD	Winter	2011	328.43	379.61	449.39	568.04	73.41	85.20	100.07	125.44
AD	Mojave Desert AQMD	Winter	2012	328.62	380.12	449.23	568.81	73.44	85.03	100.14	125.71
AD	Mojave Desert AQMD	Winter	2013	327.45	378.91	447.29	567.12	73.47	84.92	100.21	125.99
AD	Mojave Desert AQMD	Winter	2014	327.61	379.28	447.21	567.85	73.49	84.81	100.26	126.27
AD	Mojave Desert AQMD	Winter	2015	324.84	376.02	443.12	563.25	73.53	84.76	100.32	126.55
AD	Mojave Desert AQMD	Winter	2016	324.99	376.34	443.08	563.87	73.58	84.74	100.39	126.82
AD	Mojave Desert AQMD	Winter	2017	325.11	376.62	443.04	564.46	73.61	84.71	100.44	127.08
AD	Mojave Desert AQMD	Winter	2018	325.20	376.87	443.02	564.96	73.63	84.72	100.49	127.32
AD	Mojave Desert AQMD	Winter	2019	324.64	376.36	442.08	564.24	73.67	84.83	100.55	127.55
AD	Mojave Desert AQMD	Winter	2020	324.71	376.61	442.06	564.63	73.75	84.98	100.63	127.76
AD	Mojave Desert AQMD	Winter	2021	324.46	376.36	441.55	564.27	73.81	85.14	100.70	127.93
AD	Mojave Desert AQMD	Winter	2022	324.48	376.54	441.52	564.49	73.85	85.27	100.76	128.07
AD	Mojave Desert AQMD	Winter	2023	324.48	376.68	441.50	564.66	73.88	85.39	100.81	128.23
AD	Mojave Desert AQMD	Winter	2024	325.93	378.21	443.20	567.06	73.90	85.50	100.85	128.37
AD	Mojave Desert AQMD	Winter	2025	325.94	378.32	443.20	567.22	73.91	85.59	100.89	128.50
AD	Mojave Desert AQMD	Winter	2026	325.96	378.44	443.18	567.37	73.93	85.68	100.92	128.62
AD	Mojave Desert AQMD	Winter	2027	325.97	378.56	443.16	567.51	73.94	85.76	100.94	128.72
AD	Mojave Desert AQMD	Winter	2028	325.99	378.68	443.15	567.64	73.95	85.84	100.95	128.82
AD	Mojave Desert AQMD	Winter	2029	325.99	378.79	443.13	567.78	73.96	85.91	100.96	128.90
AD	Mojave Desert AQMD	Winter	2030	326.00	378.91	443.12	567.91	73.96	85.97	100.97	128.98
AD	Mojave Desert AQMD	Winter	2031	328.38	381.24	445.87	571.70	73.96	86.03	100.98	129.06
AD	Mojave Desert AQMD	Winter	2032	328.39	381.34	445.87	571.84	73.97	86.09	100.98	129.13
AD	Mojave Desert AQMD	Winter	2033	328.40	381.43	445.87	571.96	73.97	86.13	100.99	129.19
AD	Mojave Desert AQMD	Winter	2034	328.42	381.50	445.87	572.08	73.97	86.18	100.99	129.24
AD	Mojave Desert AQMD	Winter	2035	328.43	381.57	445.87	572.18	73.98	86.22	101.00	129.29
AD	Monterey Bay Unified APCD	Annual	2010	352.08	409.85	484.60	606.53	72.96	88.37	99.87	123.92
AD	Monterey Bay Unified APCD	Annual	2011	352.06	409.40	483.84	606.61	72.93	87.57	99.90	124.13
AD	Monterey Bay Unified APCD	Annual	2012	352.19	409.24	483.32	607.40	72.89	86.90	99.95	124.37
AD	Monterey Bay Unified APCD	Annual	2013	352.37	409.19	482.92	608.27	72.92	86.40	100.03	124.65
AD	Monterey Bay Unified APCD	Annual	2014	352.53	409.12	482.60	609.12	72.92	85.94	100.10	124.93
AD	Monterey Bay Unified APCD	Annual	2015	352.73	409.11	482.36	609.99	72.98	85.55	100.18	125.24
AD	Monterey Bay Unified APCD	Annual	2016	352.92	409.09	482.18	610.81	73.05	85.20	100.28	125.55
AD	Monterey Bay Unified APCD	Annual	2017	353.06	409.10	482.04	611.59	73.09	84.93	100.35	125.86
AD	Monterey Bay Unified APCD	Annual	2018	353.17	409.13	481.94	612.28	73.12	84.71	100.43	126.15
AD	Monterey Bay Unified APCD	Annual	2019	353.27	409.25	481.87	612.89	73.16	84.66	100.51	126.43
AD	Monterey Bay Unified APCD	Annual	2020	353.37	409.39	481.83	613.44	73.25	84.73	100.59	126.69
AD	Monterey Bay Unified APCD	Annual	2021	354.32	410.59	483.10	615.32	73.33	84.87	100.68	126.92
AD	Monterey Bay Unified APCD	Annual	2022	354.37	410.77	483.07	615.74	73.38	84.99	100.74	127.10
AD	Monterey Bay Unified APCD	Annual	2023	354.37	410.92	483.04	616.07	73.42	85.10	100.80	127.31
AD	Monterey Bay Unified APCD	Annual	2024	354.34	411.03	483.02	616.34	73.43	85.19	100.84	127.49
AD	Monterey Bay Unified APCD	Annual	2025	354.34	411.14	483.01	616.61	73.45	85.28	100.88	127.66
AD	Monterey Bay Unified APCD	Annual	2026	353.30	409.99	481.54	614.89	73.47	85.37	100.91	127.83
AD	Monterey Bay Unified APCD	Annual	2027	353.33	410.12	481.49	615.18	73.49	85.45	100.93	127.98

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Monterey Bay Unified APCD	Annual	2028	353.35	410.27	481.44	615.46	73.50	85.52	100.94	128.12
AD	Monterey Bay Unified APCD	Annual	2029	353.36	410.41	481.37	615.73	73.51	85.58	100.94	128.25
AD	Monterey Bay Unified APCD	Annual	2030	353.37	410.56	481.31	616.01	73.51	85.65	100.94	128.38
AD	Monterey Bay Unified APCD	Annual	2031	353.39	410.72	481.27	616.28	73.52	85.71	100.95	128.50
AD	Monterey Bay Unified APCD	Annual	2032	353.41	410.88	481.25	616.56	73.52	85.77	100.96	128.62
AD	Monterey Bay Unified APCD	Annual	2033	353.43	411.02	481.23	616.82	73.53	85.83	100.96	128.73
AD	Monterey Bay Unified APCD	Annual	2034	353.45	411.15	481.21	617.05	73.53	85.88	100.96	128.83
AD	Monterey Bay Unified APCD	Annual	2035	353.47	411.25	481.20	617.25	73.54	85.93	100.97	128.92
AD	Monterey Bay Unified APCD	Summer	2010	372.98	431.76	511.84	642.11	72.96	88.37	99.87	123.92
AD	Monterey Bay Unified APCD	Summer	2011	373.14	431.60	511.31	642.11	72.93	87.57	99.90	124.13
AD	Monterey Bay Unified APCD	Summer	2012	373.41	431.71	511.01	642.95	72.89	86.90	99.95	124.37
AD	Monterey Bay Unified APCD	Summer	2013	373.71	431.90	510.79	643.91	72.92	86.40	100.03	124.65
AD	Monterey Bay Unified APCD	Summer	2014	373.96	432.06	510.63	644.90	72.92	85.94	100.10	124.93
AD	Monterey Bay Unified APCD	Summer	2015	374.21	432.22	510.51	645.93	72.98	85.55	100.18	125.24
AD	Monterey Bay Unified APCD	Summer	2016	374.44	432.38	510.41	646.92	73.05	85.20	100.28	125.55
AD	Monterey Bay Unified APCD	Summer	2017	374.60	432.55	510.33	647.86	73.09	84.93	100.35	125.86
AD	Monterey Bay Unified APCD	Summer	2018	374.71	432.72	510.25	648.67	73.12	84.71	100.43	126.15
AD	Monterey Bay Unified APCD	Summer	2019	374.81	432.96	510.19	649.38	73.16	84.66	100.51	126.43
AD	Monterey Bay Unified APCD	Summer	2020	374.91	433.20	510.15	650.02	73.25	84.73	100.59	126.69
AD	Monterey Bay Unified APCD	Summer	2021	375.91	434.52	511.49	652.05	73.33	84.87	100.68	126.92
AD	Monterey Bay Unified APCD	Summer	2022	375.97	434.78	511.48	652.54	73.38	84.99	100.74	127.10
AD	Monterey Bay Unified APCD	Summer	2023	375.98	434.99	511.46	652.91	73.42	85.10	100.80	127.31
AD	Monterey Bay Unified APCD	Summer	2024	375.97	435.16	511.45	653.21	73.43	85.19	100.84	127.49
AD	Monterey Bay Unified APCD	Summer	2025	375.98	435.32	511.45	653.50	73.45	85.28	100.88	127.66
AD	Monterey Bay Unified APCD	Summer	2026	374.88	434.13	509.90	651.66	73.47	85.37	100.91	127.83
AD	Monterey Bay Unified APCD	Summer	2027	374.91	434.30	509.87	651.96	73.49	85.45	100.93	127.98
AD	Monterey Bay Unified APCD	Summer	2028	374.94	434.48	509.85	652.26	73.50	85.52	100.94	128.12
AD	Monterey Bay Unified APCD	Summer	2029	374.97	434.67	509.80	652.55	73.51	85.58	100.94	128.25
AD	Monterey Bay Unified APCD	Summer	2030	374.99	434.87	509.76	652.86	73.51	85.65	100.94	128.38
AD	Monterey Bay Unified APCD	Summer	2031	375.02	435.07	509.74	653.15	73.52	85.71	100.95	128.50
AD	Monterey Bay Unified APCD	Summer	2032	375.05	435.26	509.73	653.46	73.52	85.77	100.96	128.62
AD	Monterey Bay Unified APCD	Summer	2033	375.08	435.43	509.73	653.75	73.53	85.83	100.96	128.73
AD	Monterey Bay Unified APCD	Summer	2034	375.11	435.58	509.72	654.02	73.53	85.88	100.96	128.83
AD	Monterey Bay Unified APCD	Summer	2035	375.13	435.71	509.72	654.27	73.54	85.93	100.97	128.92
AD	Monterey Bay Unified APCD	Winter	2010	350.54	408.22	482.61	603.75	72.96	88.37	99.87	123.92
AD	Monterey Bay Unified APCD	Winter	2011	350.51	407.75	481.84	603.84	72.93	87.57	99.90	124.13
AD	Monterey Bay Unified APCD	Winter	2012	350.63	407.55	481.30	604.63	72.89	86.90	99.95	124.37
AD	Monterey Bay Unified APCD	Winter	2013	350.80	407.48	480.89	605.48	72.92	86.40	100.03	124.65
AD	Monterey Bay Unified APCD	Winter	2014	350.96	407.39	480.56	606.32	72.92	85.94	100.10	124.93
AD	Monterey Bay Unified APCD	Winter	2015	351.15	407.36	480.31	607.18	72.98	85.55	100.18	125.24
AD	Monterey Bay Unified APCD	Winter	2016	351.33	407.32	480.12	607.99	73.05	85.20	100.28	125.55
AD	Monterey Bay Unified APCD	Winter	2017	351.48	407.33	479.98	608.75	73.09	84.93	100.35	125.86
AD	Monterey Bay Unified APCD	Winter	2018	351.58	407.34	479.88	609.43	73.12	84.71	100.43	126.15
AD	Monterey Bay Unified APCD	Winter	2019	351.68	407.44	479.81	610.03	73.16	84.66	100.51	126.43
AD	Monterey Bay Unified APCD	Winter	2020	351.78	407.58	479.76	610.57	73.25	84.73	100.59	126.69
AD	Monterey Bay Unified APCD	Winter	2021	352.73	408.76	481.03	612.44	73.33	84.87	100.68	126.92
AD	Monterey Bay Unified APCD	Winter	2022	352.78	408.94	481.00	612.85	73.38	84.99	100.74	127.10
AD	Monterey Bay Unified APCD	Winter	2023	352.78	409.08	480.97	613.18	73.42	85.10	100.80	127.31
AD	Monterey Bay Unified APCD	Winter	2024	352.74	409.19	480.94	613.44	73.43	85.19	100.84	127.49
AD	Monterey Bay Unified APCD	Winter	2025	352.74	409.30	480.93	613.72	73.45	85.28	100.88	127.66
AD	Monterey Bay Unified APCD	Winter	2026	351.70	408.15	479.46	612.01	73.47	85.37	100.91	127.83
AD	Monterey Bay Unified APCD	Winter	2027	351.73	408.27	479.41	612.29	73.49	85.45	100.93	127.98
AD	Monterey Bay Unified APCD	Winter	2028	351.74	408.41	479.36	612.56	73.50	85.52	100.94	128.12
AD	Monterey Bay Unified APCD	Winter	2029	351.75	408.56	479.28	612.84	73.51	85.58	100.94	128.25

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Monterey Bay Unified APCD	Winter	2030	351.76	408.70	479.22	613.11	73.51	85.65	100.94	128.38
AD	Monterey Bay Unified APCD	Winter	2031	351.78	408.85	479.18	613.38	73.52	85.71	100.95	128.50
AD	Monterey Bay Unified APCD	Winter	2032	351.80	409.00	479.15	613.65	73.52	85.77	100.96	128.62
AD	Monterey Bay Unified APCD	Winter	2033	351.82	409.14	479.13	613.90	73.53	85.83	100.96	128.73
AD	Monterey Bay Unified APCD	Winter	2034	351.84	409.26	479.11	614.13	73.53	85.88	100.96	128.83
AD	Monterey Bay Unified APCD	Winter	2035	351.85	409.37	479.10	614.33	73.54	85.93	100.97	128.92
AD	North Coast Unified APCD	Annual	2010	338.11	392.75	467.85	585.18	73.17	86.39	100.59	124.05
AD	North Coast Unified APCD	Annual	2011	338.10	393.14	467.19	585.81	73.12	85.93	100.52	124.23
AD	North Coast Unified APCD	Annual	2012	338.14	393.49	466.64	586.54	73.06	85.62	100.52	124.47
AD	North Coast Unified APCD	Annual	2013	338.24	393.78	466.22	587.38	73.05	85.35	100.53	124.74
AD	North Coast Unified APCD	Annual	2014	338.28	394.01	465.87	588.19	73.01	85.13	100.52	125.01
AD	North Coast Unified APCD	Annual	2015	338.37	394.26	465.57	589.00	72.98	84.96	100.52	125.31
AD	North Coast Unified APCD	Annual	2016	338.50	394.52	465.35	589.80	73.04	84.88	100.56	125.63
AD	North Coast Unified APCD	Annual	2017	338.57	394.73	465.13	590.53	73.04	84.75	100.59	125.94
AD	North Coast Unified APCD	Annual	2018	338.64	394.93	464.97	591.16	73.06	84.68	100.60	126.24
AD	North Coast Unified APCD	Annual	2019	338.69	395.13	464.85	591.71	73.08	84.72	100.65	126.52
AD	North Coast Unified APCD	Annual	2020	338.73	395.31	464.72	592.18	73.17	84.80	100.71	126.78
AD	North Coast Unified APCD	Annual	2021	338.75	395.45	464.60	592.55	73.23	84.92	100.77	126.99
AD	North Coast Unified APCD	Annual	2022	338.73	395.55	464.48	592.85	73.27	85.02	100.82	127.17
AD	North Coast Unified APCD	Annual	2023	338.66	395.62	464.39	593.07	73.28	85.12	100.86	127.37
AD	North Coast Unified APCD	Annual	2024	338.54	395.69	464.32	593.28	73.28	85.20	100.89	127.56
AD	North Coast Unified APCD	Annual	2025	338.47	395.79	464.26	593.47	73.29	85.30	100.92	127.72
AD	North Coast Unified APCD	Annual	2026	338.49	395.93	464.14	593.62	73.31	85.41	100.94	127.88
AD	North Coast Unified APCD	Annual	2027	338.50	396.07	464.04	593.77	73.32	85.51	100.96	128.03
AD	North Coast Unified APCD	Annual	2028	338.50	396.22	463.93	593.95	73.33	85.61	100.97	128.17
AD	North Coast Unified APCD	Annual	2029	338.50	396.36	463.83	594.12	73.33	85.70	100.97	128.30
AD	North Coast Unified APCD	Annual	2030	338.48	396.49	463.70	594.29	73.34	85.78	100.96	128.43
AD	North Coast Unified APCD	Annual	2031	338.48	396.63	463.68	594.46	73.34	85.86	100.97	128.55
AD	North Coast Unified APCD	Annual	2032	338.47	396.74	463.65	594.63	73.35	85.94	100.97	128.67
AD	North Coast Unified APCD	Annual	2033	338.46	396.83	463.63	594.77	73.35	86.01	100.97	128.77
AD	North Coast Unified APCD	Annual	2034	338.45	396.90	463.60	594.89	73.36	86.07	100.98	128.87
AD	North Coast Unified APCD	Annual	2035	338.44	396.95	463.58	594.99	73.36	86.12	100.98	128.96
AD	North Coast Unified APCD	Summer	2010	339.07	393.94	469.47	587.35	73.17	86.39	100.59	124.05
AD	North Coast Unified APCD	Summer	2011	339.07	394.39	468.84	587.99	73.12	85.93	100.52	124.23
AD	North Coast Unified APCD	Summer	2012	339.11	394.78	468.30	588.72	73.06	85.62	100.52	124.47
AD	North Coast Unified APCD	Summer	2013	339.22	395.11	467.90	589.58	73.05	85.35	100.53	124.74
AD	North Coast Unified APCD	Summer	2014	339.27	395.37	467.56	590.40	73.01	85.13	100.52	125.01
AD	North Coast Unified APCD	Summer	2015	339.36	395.64	467.27	591.23	72.98	84.96	100.52	125.31
AD	North Coast Unified APCD	Summer	2016	339.49	395.92	467.05	592.05	73.04	84.88	100.56	125.63
AD	North Coast Unified APCD	Summer	2017	339.56	396.15	466.84	592.80	73.04	84.75	100.59	125.94
AD	North Coast Unified APCD	Summer	2018	339.62	396.36	466.67	593.44	73.06	84.68	100.60	126.24
AD	North Coast Unified APCD	Summer	2019	339.68	396.58	466.56	594.00	73.08	84.72	100.65	126.52
AD	North Coast Unified APCD	Summer	2020	339.72	396.76	466.42	594.47	73.17	84.80	100.71	126.78
AD	North Coast Unified APCD	Summer	2021	339.73	396.92	466.29	594.85	73.23	84.92	100.77	126.99
AD	North Coast Unified APCD	Summer	2022	339.71	397.02	466.18	595.16	73.27	85.02	100.82	127.17
AD	North Coast Unified APCD	Summer	2023	339.64	397.10	466.08	595.38	73.28	85.12	100.86	127.37
AD	North Coast Unified APCD	Summer	2024	339.52	397.18	466.01	595.60	73.28	85.20	100.89	127.56
AD	North Coast Unified APCD	Summer	2025	339.44	397.28	465.96	595.80	73.29	85.30	100.92	127.72
AD	North Coast Unified APCD	Summer	2026	339.46	397.42	465.83	595.95	73.31	85.41	100.94	127.88
AD	North Coast Unified APCD	Summer	2027	339.47	397.56	465.72	596.10	73.32	85.51	100.96	128.03
AD	North Coast Unified APCD	Summer	2028	339.48	397.72	465.61	596.27	73.33	85.61	100.97	128.17
AD	North Coast Unified APCD	Summer	2029	339.48	397.86	465.51	596.44	73.33	85.70	100.97	128.30
AD	North Coast Unified APCD	Summer	2030	339.46	397.99	465.38	596.62	73.34	85.78	100.96	128.43
AD	North Coast Unified APCD	Summer	2031	339.46	398.14	465.36	596.78	73.34	85.86	100.97	128.55

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	North Coast Unified APCD	Summer	2032	339.46	398.25	465.34	596.94	73.35	85.94	100.97	128.67
AD	North Coast Unified APCD	Summer	2033	339.45	398.34	465.31	597.08	73.35	86.01	100.97	128.77
AD	North Coast Unified APCD	Summer	2034	339.43	398.40	465.29	597.20	73.36	86.07	100.98	128.87
AD	North Coast Unified APCD	Summer	2035	339.42	398.44	465.27	597.30	73.36	86.12	100.98	128.96
AD	North Coast Unified APCD	Winter	2010	336.39	390.83	465.37	582.01	73.17	86.39	100.59	124.05
AD	North Coast Unified APCD	Winter	2011	336.36	391.14	464.68	582.63	73.12	85.93	100.52	124.23
AD	North Coast Unified APCD	Winter	2012	336.38	391.43	464.11	583.35	73.06	85.62	100.52	124.47
AD	North Coast Unified APCD	Winter	2013	336.47	391.68	463.67	584.16	73.05	85.35	100.53	124.74
AD	North Coast Unified APCD	Winter	2014	336.51	391.88	463.31	584.95	73.01	85.13	100.52	125.01
AD	North Coast Unified APCD	Winter	2015	336.59	392.10	463.00	585.74	72.98	84.96	100.52	125.31
AD	North Coast Unified APCD	Winter	2016	336.72	392.33	462.77	586.52	73.04	84.88	100.56	125.63
AD	North Coast Unified APCD	Winter	2017	336.79	392.52	462.55	587.24	73.04	84.75	100.59	125.94
AD	North Coast Unified APCD	Winter	2018	336.86	392.70	462.38	587.85	73.06	84.68	100.60	126.24
AD	North Coast Unified APCD	Winter	2019	336.92	392.89	462.26	588.38	73.08	84.72	100.65	126.52
AD	North Coast Unified APCD	Winter	2020	336.96	393.05	462.13	588.84	73.17	84.80	100.71	126.78
AD	North Coast Unified APCD	Winter	2021	336.98	393.18	462.02	589.20	73.23	84.92	100.77	126.99
AD	North Coast Unified APCD	Winter	2022	336.96	393.27	461.90	589.49	73.27	85.02	100.82	127.17
AD	North Coast Unified APCD	Winter	2023	336.89	393.33	461.80	589.70	73.28	85.12	100.86	127.37
AD	North Coast Unified APCD	Winter	2024	336.78	393.40	461.73	589.91	73.28	85.20	100.89	127.56
AD	North Coast Unified APCD	Winter	2025	336.70	393.50	461.68	590.09	73.29	85.30	100.92	127.72
AD	North Coast Unified APCD	Winter	2026	336.72	393.63	461.56	590.25	73.31	85.41	100.94	127.88
AD	North Coast Unified APCD	Winter	2027	336.73	393.76	461.46	590.40	73.32	85.51	100.96	128.03
AD	North Coast Unified APCD	Winter	2028	336.73	393.91	461.35	590.57	73.33	85.61	100.97	128.17
AD	North Coast Unified APCD	Winter	2029	336.72	394.04	461.25	590.75	73.33	85.70	100.97	128.30
AD	North Coast Unified APCD	Winter	2030	336.71	394.16	461.12	590.92	73.34	85.78	100.96	128.43
AD	North Coast Unified APCD	Winter	2031	336.71	394.30	461.10	591.08	73.34	85.86	100.97	128.55
AD	North Coast Unified APCD	Winter	2032	336.70	394.41	461.07	591.25	73.35	85.94	100.97	128.67
AD	North Coast Unified APCD	Winter	2033	336.69	394.50	461.05	591.39	73.35	86.01	100.97	128.77
AD	North Coast Unified APCD	Winter	2034	336.68	394.57	461.02	591.51	73.36	86.07	100.98	128.87
AD	North Coast Unified APCD	Winter	2035	336.67	394.61	461.00	591.61	73.36	86.12	100.98	128.96
AD	Northern Sierra AQMD	Annual	2010	335.85	403.50	460.60	582.46	73.83	93.66	100.49	125.24
AD	Northern Sierra AQMD	Annual	2011	335.79	403.58	459.90	583.10	73.66	92.12	100.45	125.33
AD	Northern Sierra AQMD	Annual	2012	335.78	403.52	459.38	583.85	73.51	90.81	100.45	125.45
AD	Northern Sierra AQMD	Annual	2013	335.79	403.50	459.02	584.66	73.39	89.69	100.44	125.61
AD	Northern Sierra AQMD	Annual	2014	335.77	403.42	458.71	585.44	73.23	88.70	100.46	125.78
AD	Northern Sierra AQMD	Annual	2015	335.82	403.39	458.48	586.29	73.16	87.84	100.50	125.98
AD	Northern Sierra AQMD	Annual	2016	335.92	403.32	458.32	587.09	73.17	87.09	100.56	126.21
AD	Northern Sierra AQMD	Annual	2017	335.94	403.29	458.20	587.82	73.12	86.34	100.55	126.44
AD	Northern Sierra AQMD	Annual	2018	335.96	403.18	458.11	588.47	73.08	85.76	100.59	126.67
AD	Northern Sierra AQMD	Annual	2019	335.99	403.23	458.04	589.02	73.07	85.48	100.62	126.89
AD	Northern Sierra AQMD	Annual	2020	336.03	403.26	457.98	589.50	73.16	85.41	100.69	127.10
AD	Northern Sierra AQMD	Annual	2021	336.06	403.35	457.94	589.83	73.23	85.46	100.76	127.22
AD	Northern Sierra AQMD	Annual	2022	336.04	403.43	457.90	590.06	73.28	85.51	100.82	127.27
AD	Northern Sierra AQMD	Annual	2023	336.00	403.49	457.85	590.24	73.30	85.55	100.87	127.44
AD	Northern Sierra AQMD	Annual	2024	335.93	403.48	457.82	590.43	73.31	85.58	100.90	127.60
AD	Northern Sierra AQMD	Annual	2025	335.92	403.43	457.78	590.66	73.33	85.65	100.93	127.77
AD	Northern Sierra AQMD	Annual	2026	335.94	403.53	457.74	590.88	73.35	85.73	100.96	127.93
AD	Northern Sierra AQMD	Annual	2027	335.96	403.60	457.69	591.11	73.37	85.80	100.97	128.07
AD	Northern Sierra AQMD	Annual	2028	335.97	403.70	457.66	591.34	73.38	85.86	100.98	128.21
AD	Northern Sierra AQMD	Annual	2029	335.98	403.82	457.62	591.59	73.38	85.92	100.98	128.33
AD	Northern Sierra AQMD	Annual	2030	335.97	403.91	457.56	591.83	73.39	85.98	100.97	128.46
AD	Northern Sierra AQMD	Annual	2031	335.99	404.07	457.55	592.03	73.40	86.03	100.98	128.58
AD	Northern Sierra AQMD	Annual	2032	336.00	404.19	457.53	592.24	73.40	86.08	100.98	128.69
AD	Northern Sierra AQMD	Annual	2033	336.01	404.33	457.52	592.41	73.41	86.13	100.98	128.80

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Northern Sierra AQMD	Annual	2034	336.01	404.45	457.50	592.56	73.41	86.17	100.99	128.89
AD	Northern Sierra AQMD	Annual	2035	336.01	404.53	457.50	592.68	73.42	86.21	100.99	128.98
AD	Northern Sierra AQMD	Summer	2010	359.56	428.44	492.24	621.66	73.83	93.66	100.49	125.24
AD	Northern Sierra AQMD	Summer	2011	359.74	429.15	491.87	622.40	73.66	92.12	100.45	125.33
AD	Northern Sierra AQMD	Summer	2012	359.93	429.60	491.60	623.31	73.51	90.81	100.45	125.45
AD	Northern Sierra AQMD	Summer	2013	360.10	429.97	491.44	624.34	73.39	89.69	100.44	125.61
AD	Northern Sierra AQMD	Summer	2014	360.21	430.21	491.29	625.36	73.23	88.70	100.46	125.78
AD	Northern Sierra AQMD	Summer	2015	360.36	430.46	491.19	626.49	73.16	87.84	100.50	125.98
AD	Northern Sierra AQMD	Summer	2016	360.51	430.61	491.11	627.56	73.17	87.09	100.56	126.21
AD	Northern Sierra AQMD	Summer	2017	360.57	430.78	491.05	628.52	73.12	86.34	100.55	126.44
AD	Northern Sierra AQMD	Summer	2018	360.60	430.82	490.96	629.37	73.08	85.76	100.59	126.67
AD	Northern Sierra AQMD	Summer	2019	360.63	430.98	490.90	630.09	73.07	85.48	100.62	126.89
AD	Northern Sierra AQMD	Summer	2020	360.67	431.10	490.84	630.70	73.16	85.41	100.69	127.10
AD	Northern Sierra AQMD	Summer	2021	360.69	431.25	490.78	631.15	73.23	85.46	100.76	127.22
AD	Northern Sierra AQMD	Summer	2022	360.67	431.39	490.74	631.50	73.28	85.51	100.82	127.27
AD	Northern Sierra AQMD	Summer	2023	360.63	431.52	490.69	631.75	73.30	85.55	100.87	127.44
AD	Northern Sierra AQMD	Summer	2024	360.56	431.57	490.66	632.00	73.31	85.58	100.90	127.60
AD	Northern Sierra AQMD	Summer	2025	360.55	431.55	490.62	632.26	73.33	85.65	100.93	127.77
AD	Northern Sierra AQMD	Summer	2026	360.58	431.69	490.59	632.48	73.35	85.73	100.96	127.93
AD	Northern Sierra AQMD	Summer	2027	360.60	431.79	490.57	632.71	73.37	85.80	100.97	128.07
AD	Northern Sierra AQMD	Summer	2028	360.63	431.93	490.55	632.96	73.38	85.86	100.98	128.21
AD	Northern Sierra AQMD	Summer	2029	360.65	432.08	490.53	633.23	73.38	85.92	100.98	128.33
AD	Northern Sierra AQMD	Summer	2030	360.66	432.21	490.50	633.50	73.39	85.98	100.97	128.46
AD	Northern Sierra AQMD	Summer	2031	360.68	432.40	490.49	633.75	73.40	86.03	100.98	128.58
AD	Northern Sierra AQMD	Summer	2032	360.69	432.54	490.48	633.99	73.40	86.08	100.98	128.69
AD	Northern Sierra AQMD	Summer	2033	360.71	432.70	490.47	634.21	73.41	86.13	100.98	128.80
AD	Northern Sierra AQMD	Summer	2034	360.72	432.84	490.46	634.40	73.41	86.17	100.99	128.89
AD	Northern Sierra AQMD	Summer	2035	360.71	432.93	490.45	634.56	73.42	86.21	100.99	128.98
AD	Northern Sierra AQMD	Winter	2010	330.67	398.10	453.69	573.92	73.83	93.66	100.49	125.24
AD	Northern Sierra AQMD	Winter	2011	330.56	398.05	452.91	574.54	73.66	92.12	100.45	125.33
AD	Northern Sierra AQMD	Winter	2012	330.50	397.88	452.34	575.25	73.51	90.81	100.45	125.45
AD	Northern Sierra AQMD	Winter	2013	330.48	397.78	451.93	576.01	73.39	89.69	100.44	125.61
AD	Northern Sierra AQMD	Winter	2014	330.43	397.63	451.58	576.74	73.23	88.70	100.46	125.78
AD	Northern Sierra AQMD	Winter	2015	330.46	397.55	451.33	577.53	73.16	87.84	100.50	125.98
AD	Northern Sierra AQMD	Winter	2016	330.54	397.43	451.14	578.28	73.17	87.09	100.56	126.21
AD	Northern Sierra AQMD	Winter	2017	330.55	397.35	451.02	578.95	73.12	86.34	100.55	126.44
AD	Northern Sierra AQMD	Winter	2018	330.57	397.21	450.92	579.56	73.08	85.76	100.59	126.67
AD	Northern Sierra AQMD	Winter	2019	330.60	397.23	450.85	580.08	73.07	85.48	100.62	126.89
AD	Northern Sierra AQMD	Winter	2020	330.64	397.25	450.80	580.53	73.16	85.41	100.69	127.10
AD	Northern Sierra AQMD	Winter	2021	330.68	397.32	450.76	580.82	73.23	85.46	100.76	127.22
AD	Northern Sierra AQMD	Winter	2022	330.66	397.39	450.72	581.03	73.28	85.51	100.82	127.27
AD	Northern Sierra AQMD	Winter	2023	330.62	397.44	450.67	581.20	73.30	85.55	100.87	127.44
AD	Northern Sierra AQMD	Winter	2024	330.55	397.42	450.64	581.38	73.31	85.58	100.90	127.60
AD	Northern Sierra AQMD	Winter	2025	330.53	397.35	450.60	581.60	73.33	85.65	100.93	127.77
AD	Northern Sierra AQMD	Winter	2026	330.56	397.45	450.55	581.82	73.35	85.73	100.96	127.93
AD	Northern Sierra AQMD	Winter	2027	330.57	397.51	450.50	582.04	73.37	85.80	100.97	128.07
AD	Northern Sierra AQMD	Winter	2028	330.58	397.61	450.46	582.28	73.38	85.86	100.98	128.21
AD	Northern Sierra AQMD	Winter	2029	330.58	397.72	450.42	582.52	73.38	85.92	100.98	128.33
AD	Northern Sierra AQMD	Winter	2030	330.58	397.80	450.36	582.75	73.39	85.98	100.97	128.46
AD	Northern Sierra AQMD	Winter	2031	330.60	397.96	450.34	582.95	73.40	86.03	100.98	128.58
AD	Northern Sierra AQMD	Winter	2032	330.60	398.07	450.32	583.15	73.40	86.08	100.98	128.69
AD	Northern Sierra AQMD	Winter	2033	330.61	398.20	450.31	583.31	73.41	86.13	100.98	128.80
AD	Northern Sierra AQMD	Winter	2034	330.62	398.33	450.30	583.45	73.41	86.17	100.99	128.89
AD	Northern Sierra AQMD	Winter	2035	330.61	398.41	450.29	583.56	73.42	86.21	100.99	128.98

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Northern Sonoma County APCD	Annual	2010	390.51	449.32	534.32	668.22	73.44	86.67	100.89	124.24
AD	Northern Sonoma County APCD	Annual	2011	390.41	449.46	533.78	668.92	73.35	86.07	100.76	124.42
AD	Northern Sonoma County APCD	Annual	2012	390.39	449.72	533.36	669.75	73.28	85.75	100.71	124.64
AD	Northern Sonoma County APCD	Annual	2013	390.45	449.93	533.03	670.64	73.24	85.48	100.70	124.89
AD	Northern Sonoma County APCD	Annual	2014	390.51	450.12	532.77	671.53	73.21	85.23	100.66	125.14
AD	Northern Sonoma County APCD	Annual	2015	390.56	450.29	532.56	672.43	73.15	84.99	100.59	125.42
AD	Northern Sonoma County APCD	Annual	2016	389.58	449.24	530.90	671.41	73.14	84.86	100.60	125.69
AD	Northern Sonoma County APCD	Annual	2017	389.62	449.43	530.76	672.22	73.11	84.74	100.59	125.97
AD	Northern Sonoma County APCD	Annual	2018	389.63	449.60	530.64	672.91	73.05	84.67	100.59	126.25
AD	Northern Sonoma County APCD	Annual	2019	389.66	449.79	530.55	673.52	73.04	84.68	100.60	126.51
AD	Northern Sonoma County APCD	Annual	2020	389.72	449.99	530.48	674.07	73.12	84.77	100.66	126.75
AD	Northern Sonoma County APCD	Annual	2021	389.70	450.13	530.40	674.51	73.17	84.88	100.73	126.95
AD	Northern Sonoma County APCD	Annual	2022	389.64	450.20	530.29	674.87	73.19	84.96	100.77	127.13
AD	Northern Sonoma County APCD	Annual	2023	389.45	450.24	530.20	675.12	73.19	85.04	100.81	127.31
AD	Northern Sonoma County APCD	Annual	2024	389.28	450.28	530.12	675.30	73.17	85.12	100.85	127.48
AD	Northern Sonoma County APCD	Annual	2025	389.20	450.39	530.07	675.47	73.17	85.21	100.89	127.63
AD	Northern Sonoma County APCD	Annual	2026	388.38	449.63	528.86	674.20	73.19	85.33	100.92	127.79
AD	Northern Sonoma County APCD	Annual	2027	388.39	449.84	528.80	674.40	73.21	85.43	100.94	127.93
AD	Northern Sonoma County APCD	Annual	2028	388.39	450.05	528.74	674.61	73.21	85.53	100.95	128.07
AD	Northern Sonoma County APCD	Annual	2029	388.37	450.26	528.66	674.83	73.22	85.63	100.96	128.20
AD	Northern Sonoma County APCD	Annual	2030	388.34	450.46	528.57	675.05	73.22	85.71	100.96	128.32
AD	Northern Sonoma County APCD	Annual	2031	388.34	450.68	528.53	675.33	73.23	85.80	100.96	128.45
AD	Northern Sonoma County APCD	Annual	2032	388.33	450.87	528.49	675.61	73.23	85.88	100.97	128.57
AD	Northern Sonoma County APCD	Annual	2033	388.32	451.04	528.45	675.87	73.24	85.96	100.97	128.69
AD	Northern Sonoma County APCD	Annual	2034	388.31	451.20	528.43	676.10	73.25	86.03	100.98	128.79
AD	Northern Sonoma County APCD	Annual	2035	388.30	451.32	528.40	676.31	73.25	86.08	100.98	128.89
AD	Northern Sonoma County APCD	Summer	2010	405.40	463.97	554.11	693.02	73.44	86.67	100.89	124.24
AD	Northern Sonoma County APCD	Summer	2011	405.46	464.55	553.73	693.76	73.35	86.07	100.76	124.42
AD	Northern Sonoma County APCD	Summer	2012	405.58	465.14	553.43	694.67	73.28	85.75	100.71	124.64
AD	Northern Sonoma County APCD	Summer	2013	405.73	465.65	553.21	695.68	73.24	85.48	100.70	124.89
AD	Northern Sonoma County APCD	Summer	2014	405.87	466.08	553.06	696.69	73.21	85.23	100.66	125.14
AD	Northern Sonoma County APCD	Summer	2015	405.97	466.45	552.95	697.74	73.15	84.99	100.59	125.42
AD	Northern Sonoma County APCD	Summer	2016	404.98	465.53	551.32	696.79	73.14	84.86	100.60	125.69
AD	Northern Sonoma County APCD	Summer	2017	405.05	465.86	551.23	697.73	73.11	84.74	100.59	125.97
AD	Northern Sonoma County APCD	Summer	2018	405.05	466.14	551.15	698.52	73.05	84.67	100.59	126.25
AD	Northern Sonoma County APCD	Summer	2019	405.08	466.43	551.09	699.22	73.04	84.68	100.60	126.51
AD	Northern Sonoma County APCD	Summer	2020	405.14	466.72	551.02	699.85	73.12	84.77	100.66	126.75
AD	Northern Sonoma County APCD	Summer	2021	405.12	466.94	550.95	700.35	73.17	84.88	100.73	126.95
AD	Northern Sonoma County APCD	Summer	2022	405.06	467.10	550.86	700.77	73.19	84.96	100.77	127.13
AD	Northern Sonoma County APCD	Summer	2023	404.88	467.22	550.78	701.06	73.19	85.04	100.81	127.31
AD	Northern Sonoma County APCD	Summer	2024	404.72	467.34	550.70	701.27	73.17	85.12	100.85	127.48
AD	Northern Sonoma County APCD	Summer	2025	404.64	467.50	550.65	701.46	73.17	85.21	100.89	127.63
AD	Northern Sonoma County APCD	Summer	2026	403.80	466.76	549.40	700.14	73.19	85.33	100.92	127.79
AD	Northern Sonoma County APCD	Summer	2027	403.82	467.03	549.34	700.34	73.21	85.43	100.94	127.93
AD	Northern Sonoma County APCD	Summer	2028	403.82	467.29	549.29	700.56	73.21	85.53	100.95	128.07
AD	Northern Sonoma County APCD	Summer	2029	403.81	467.55	549.22	700.79	73.22	85.63	100.96	128.20
AD	Northern Sonoma County APCD	Summer	2030	403.80	467.80	549.13	701.03	73.22	85.71	100.96	128.32
AD	Northern Sonoma County APCD	Summer	2031	403.80	468.07	549.10	701.35	73.23	85.80	100.96	128.45
AD	Northern Sonoma County APCD	Summer	2032	403.79	468.29	549.07	701.67	73.23	85.88	100.97	128.57
AD	Northern Sonoma County APCD	Summer	2033	403.79	468.49	549.04	701.96	73.24	85.96	100.97	128.69
AD	Northern Sonoma County APCD	Summer	2034	403.78	468.67	549.01	702.23	73.25	86.03	100.98	128.79
AD	Northern Sonoma County APCD	Summer	2035	403.77	468.80	548.99	702.46	73.25	86.08	100.98	128.89
AD	Northern Sonoma County APCD	Winter	2010	383.18	442.11	524.58	656.01	73.44	86.67	100.89	124.24
AD	Northern Sonoma County APCD	Winter	2011	383.00	442.03	523.97	656.70	73.35	86.07	100.76	124.42

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Northern Sonoma County APCD	Winter	2012	382.92	442.12	523.49	657.49	73.28	85.75	100.71	124.64
AD	Northern Sonoma County APCD	Winter	2013	382.92	442.20	523.10	658.32	73.24	85.48	100.70	124.89
AD	Northern Sonoma County APCD	Winter	2014	382.95	442.27	522.78	659.14	73.21	85.23	100.66	125.14
AD	Northern Sonoma County APCD	Winter	2015	382.97	442.33	522.52	659.97	73.15	84.99	100.59	125.42
AD	Northern Sonoma County APCD	Winter	2016	382.00	441.23	520.85	658.92	73.14	84.86	100.60	125.69
AD	Northern Sonoma County APCD	Winter	2017	382.03	441.35	520.68	659.67	73.11	84.74	100.59	125.97
AD	Northern Sonoma County APCD	Winter	2018	382.04	441.46	520.55	660.31	73.05	84.67	100.59	126.25
AD	Northern Sonoma County APCD	Winter	2019	382.06	441.60	520.45	660.88	73.04	84.68	100.60	126.51
AD	Northern Sonoma County APCD	Winter	2020	382.13	441.75	520.37	661.39	73.12	84.77	100.66	126.75
AD	Northern Sonoma County APCD	Winter	2021	382.11	441.85	520.28	661.79	73.17	84.88	100.73	126.95
AD	Northern Sonoma County APCD	Winter	2022	382.05	441.88	520.16	662.13	73.19	84.96	100.77	127.13
AD	Northern Sonoma County APCD	Winter	2023	381.86	441.88	520.07	662.35	73.19	85.04	100.81	127.31
AD	Northern Sonoma County APCD	Winter	2024	381.68	441.89	519.99	662.52	73.17	85.12	100.85	127.48
AD	Northern Sonoma County APCD	Winter	2025	381.60	441.97	519.94	662.68	73.17	85.21	100.89	127.63
AD	Northern Sonoma County APCD	Winter	2026	380.80	441.20	518.76	661.43	73.19	85.33	100.92	127.79
AD	Northern Sonoma County APCD	Winter	2027	380.81	441.38	518.69	661.63	73.21	85.43	100.94	127.93
AD	Northern Sonoma County APCD	Winter	2028	380.79	441.56	518.63	661.84	73.21	85.53	100.95	128.07
AD	Northern Sonoma County APCD	Winter	2029	380.77	441.75	518.54	662.05	73.22	85.63	100.96	128.20
AD	Northern Sonoma County APCD	Winter	2030	380.74	441.93	518.44	662.26	73.22	85.71	100.96	128.32
AD	Northern Sonoma County APCD	Winter	2031	380.73	442.12	518.40	662.52	73.23	85.80	100.96	128.45
AD	Northern Sonoma County APCD	Winter	2032	380.72	442.30	518.36	662.79	73.23	85.88	100.97	128.57
AD	Northern Sonoma County APCD	Winter	2033	380.71	442.46	518.33	663.03	73.24	85.96	100.97	128.69
AD	Northern Sonoma County APCD	Winter	2034	380.70	442.60	518.30	663.25	73.25	86.03	100.98	128.79
AD	Northern Sonoma County APCD	Winter	2035	380.69	442.72	518.27	663.43	73.25	86.08	100.98	128.89
AD	Placer County APCD	Annual	2010	330.80	382.95	453.87	573.60	73.15	86.40	99.87	125.61
AD	Placer County APCD	Annual	2011	330.96	383.35	453.67	574.14	73.10	85.94	99.92	125.82
AD	Placer County APCD	Annual	2012	331.12	383.73	453.52	574.71	73.06	85.63	100.00	126.05
AD	Placer County APCD	Annual	2013	331.32	384.06	453.41	575.29	73.08	85.40	100.09	126.27
AD	Placer County APCD	Annual	2014	331.48	384.35	453.34	575.86	73.07	85.22	100.16	126.50
AD	Placer County APCD	Annual	2015	331.65	384.62	453.29	576.42	73.11	85.08	100.23	126.73
AD	Placer County APCD	Annual	2016	331.81	384.88	453.26	576.96	73.18	85.00	100.31	126.96
AD	Placer County APCD	Annual	2017	331.93	385.06	453.23	577.48	73.23	84.86	100.37	127.19
AD	Placer County APCD	Annual	2018	332.03	385.26	453.21	577.92	73.27	84.81	100.44	127.41
AD	Placer County APCD	Annual	2019	331.81	385.22	453.03	577.86	73.33	84.90	100.51	127.59
AD	Placer County APCD	Annual	2020	331.89	385.39	453.01	578.18	73.41	85.01	100.59	127.77
AD	Placer County APCD	Annual	2021	331.94	385.58	452.99	578.41	73.48	85.15	100.67	127.91
AD	Placer County APCD	Annual	2022	331.98	385.74	452.97	578.60	73.53	85.27	100.73	128.02
AD	Placer County APCD	Annual	2023	332.00	385.86	452.94	578.76	73.57	85.37	100.79	128.16
AD	Placer County APCD	Annual	2024	332.00	385.96	452.93	578.88	73.59	85.46	100.83	128.28
AD	Placer County APCD	Annual	2025	332.00	386.05	452.91	579.01	73.61	85.54	100.87	128.41
AD	Placer County APCD	Annual	2026	332.02	386.16	452.89	579.13	73.63	85.62	100.90	128.52
AD	Placer County APCD	Annual	2027	332.04	386.27	452.88	579.25	73.64	85.70	100.92	128.62
AD	Placer County APCD	Annual	2028	332.05	386.37	452.86	579.37	73.65	85.76	100.94	128.71
AD	Placer County APCD	Annual	2029	332.05	386.48	452.84	579.49	73.66	85.83	100.95	128.80
AD	Placer County APCD	Annual	2030	332.06	386.59	452.82	579.61	73.67	85.89	100.96	128.88
AD	Placer County APCD	Annual	2031	332.06	386.69	452.81	579.74	73.67	85.94	100.97	128.95
AD	Placer County APCD	Annual	2032	332.06	386.79	452.80	579.86	73.68	86.00	100.98	129.02
AD	Placer County APCD	Annual	2033	332.06	386.87	452.79	579.98	73.68	86.05	100.98	129.09
AD	Placer County APCD	Annual	2034	332.06	386.95	452.79	580.09	73.68	86.09	100.99	129.15
AD	Placer County APCD	Annual	2035	332.06	387.01	452.78	580.18	73.68	86.13	100.99	129.20
AD	Placer County APCD	Summer	2010	366.87	419.79	499.91	632.16	73.15	86.40	99.87	125.61
AD	Placer County APCD	Summer	2011	367.20	420.83	499.86	632.72	73.10	85.94	99.92	125.82
AD	Placer County APCD	Summer	2012	367.51	421.72	499.86	633.38	73.06	85.63	100.00	126.05
AD	Placer County APCD	Summer	2013	367.83	422.43	499.88	634.06	73.08	85.40	100.09	126.27

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Placer County APCD	Summer	2014	368.11	423.03	499.98	634.82	73.07	85.22	100.16	126.50
AD	Placer County APCD	Summer	2015	368.37	423.53	500.06	635.56	73.11	85.08	100.23	126.73
AD	Placer County APCD	Summer	2016	368.59	423.99	500.19	636.33	73.18	85.00	100.31	126.96
AD	Placer County APCD	Summer	2017	368.75	424.37	500.30	637.08	73.23	84.86	100.37	127.19
AD	Placer County APCD	Summer	2018	368.87	424.73	500.37	637.69	73.27	84.81	100.44	127.41
AD	Placer County APCD	Summer	2019	368.64	424.75	500.19	637.68	73.33	84.90	100.51	127.59
AD	Placer County APCD	Summer	2020	368.73	425.03	500.21	638.11	73.41	85.01	100.59	127.77
AD	Placer County APCD	Summer	2021	368.79	425.26	500.22	638.45	73.48	85.15	100.67	127.91
AD	Placer County APCD	Summer	2022	368.85	425.49	500.23	638.74	73.53	85.27	100.73	128.02
AD	Placer County APCD	Summer	2023	368.90	425.67	500.25	638.98	73.57	85.37	100.79	128.16
AD	Placer County APCD	Summer	2024	368.92	425.83	500.26	639.17	73.59	85.46	100.83	128.28
AD	Placer County APCD	Summer	2025	368.94	425.99	500.29	639.37	73.61	85.54	100.87	128.41
AD	Placer County APCD	Summer	2026	368.98	426.17	500.30	639.54	73.63	85.62	100.90	128.52
AD	Placer County APCD	Summer	2027	369.02	426.34	500.32	639.72	73.64	85.70	100.92	128.62
AD	Placer County APCD	Summer	2028	369.05	426.52	500.35	639.90	73.65	85.76	100.94	128.71
AD	Placer County APCD	Summer	2029	369.08	426.71	500.38	640.08	73.66	85.83	100.95	128.80
AD	Placer County APCD	Summer	2030	369.11	426.89	500.40	640.26	73.67	85.89	100.96	128.88
AD	Placer County APCD	Summer	2031	369.14	427.07	500.42	640.42	73.67	85.94	100.97	128.95
AD	Placer County APCD	Summer	2032	369.16	427.23	500.45	640.59	73.68	86.00	100.98	129.02
AD	Placer County APCD	Summer	2033	369.19	427.37	500.48	640.76	73.68	86.05	100.98	129.09
AD	Placer County APCD	Summer	2034	369.21	427.50	500.51	640.92	73.68	86.09	100.99	129.15
AD	Placer County APCD	Summer	2035	369.22	427.60	500.54	641.08	73.68	86.13	100.99	129.20
AD	Placer County APCD	Winter	2010	321.28	373.22	441.80	558.12	73.15	86.40	99.87	125.61
AD	Placer County APCD	Winter	2011	321.39	373.46	441.55	558.65	73.10	85.94	99.92	125.82
AD	Placer County APCD	Winter	2012	321.51	373.70	441.37	559.19	73.06	85.63	100.00	126.05
AD	Placer County APCD	Winter	2013	321.67	373.92	441.22	559.73	73.08	85.40	100.09	126.27
AD	Placer County APCD	Winter	2014	321.80	374.13	441.10	560.26	73.07	85.22	100.16	126.50
AD	Placer County APCD	Winter	2015	321.94	374.34	441.02	560.77	73.11	85.08	100.23	126.73
AD	Placer County APCD	Winter	2016	322.09	374.54	440.94	561.25	73.18	85.00	100.31	126.96
AD	Placer County APCD	Winter	2017	322.20	374.67	440.87	561.70	73.23	84.86	100.37	127.19
AD	Placer County APCD	Winter	2018	322.28	374.82	440.83	562.09	73.27	84.81	100.44	127.41
AD	Placer County APCD	Winter	2019	322.07	374.75	440.63	562.01	73.33	84.90	100.51	127.59
AD	Placer County APCD	Winter	2020	322.14	374.90	440.60	562.29	73.41	85.01	100.59	127.77
AD	Placer County APCD	Winter	2021	322.19	375.07	440.56	562.49	73.48	85.15	100.67	127.91
AD	Placer County APCD	Winter	2022	322.22	375.21	440.52	562.65	73.53	85.27	100.73	128.02
AD	Placer County APCD	Winter	2023	322.22	375.31	440.49	562.78	73.57	85.37	100.79	128.16
AD	Placer County APCD	Winter	2024	322.22	375.39	440.45	562.88	73.59	85.46	100.83	128.28
AD	Placer County APCD	Winter	2025	322.22	375.47	440.42	562.98	73.61	85.54	100.87	128.41
AD	Placer County APCD	Winter	2026	322.23	375.55	440.39	563.08	73.63	85.62	100.90	128.52
AD	Placer County APCD	Winter	2027	322.23	375.64	440.36	563.18	73.64	85.70	100.92	128.62
AD	Placer County APCD	Winter	2028	322.24	375.72	440.33	563.28	73.65	85.76	100.94	128.71
AD	Placer County APCD	Winter	2029	322.23	375.80	440.29	563.38	73.66	85.83	100.95	128.80
AD	Placer County APCD	Winter	2030	322.23	375.89	440.25	563.48	73.67	85.89	100.96	128.88
AD	Placer County APCD	Winter	2031	322.22	375.97	440.23	563.59	73.67	85.94	100.97	128.95
AD	Placer County APCD	Winter	2032	322.22	376.04	440.21	563.70	73.68	86.00	100.98	129.02
AD	Placer County APCD	Winter	2033	322.21	376.11	440.19	563.80	73.68	86.05	100.98	129.09
AD	Placer County APCD	Winter	2034	322.20	376.17	440.17	563.89	73.68	86.09	100.99	129.15
AD	Placer County APCD	Winter	2035	322.19	376.21	440.15	563.96	73.68	86.13	100.99	129.20
AD	Sacramento Metropolitan AQMD	Annual	2010	338.27	388.45	463.58	584.38	72.89	84.85	99.62	124.76
AD	Sacramento Metropolitan AQMD	Annual	2011	338.59	389.26	463.49	584.93	72.94	84.61	99.69	124.96
AD	Sacramento Metropolitan AQMD	Annual	2012	338.89	389.98	463.44	585.56	73.00	84.46	99.78	125.19
AD	Sacramento Metropolitan AQMD	Annual	2013	339.19	390.61	463.40	586.25	73.08	84.39	99.88	125.44
AD	Sacramento Metropolitan AQMD	Annual	2014	339.46	391.17	463.38	586.94	73.15	84.34	99.96	125.69
AD	Sacramento Metropolitan AQMD	Annual	2015	339.72	391.68	463.38	587.65	73.24	84.33	100.03	125.96

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Sacramento Metropolitan AQMD	Annual	2016	339.95	392.11	463.38	588.32	73.35	84.32	100.13	126.23
AD	Sacramento Metropolitan AQMD	Annual	2017	340.12	392.49	463.38	588.95	73.41	84.30	100.21	126.50
AD	Sacramento Metropolitan AQMD	Annual	2018	340.26	392.81	463.37	589.51	73.47	84.32	100.29	126.76
AD	Sacramento Metropolitan AQMD	Annual	2019	338.61	391.09	460.99	586.96	73.53	84.47	100.38	126.99
AD	Sacramento Metropolitan AQMD	Annual	2020	338.72	391.37	460.98	587.40	73.64	84.63	100.47	127.20
AD	Sacramento Metropolitan AQMD	Annual	2021	338.80	391.64	460.97	587.73	73.72	84.80	100.57	127.38
AD	Sacramento Metropolitan AQMD	Annual	2022	338.84	391.86	460.96	588.00	73.78	84.95	100.64	127.54
AD	Sacramento Metropolitan AQMD	Annual	2023	338.86	392.04	460.94	588.22	73.82	85.07	100.71	127.71
AD	Sacramento Metropolitan AQMD	Annual	2024	338.87	392.19	460.92	588.37	73.85	85.19	100.76	127.86
AD	Sacramento Metropolitan AQMD	Annual	2025	338.88	392.32	460.91	588.52	73.87	85.29	100.81	128.00
AD	Sacramento Metropolitan AQMD	Annual	2026	338.89	392.46	460.90	588.69	73.89	85.39	100.85	128.15
AD	Sacramento Metropolitan AQMD	Annual	2027	338.90	392.59	460.89	588.86	73.91	85.48	100.88	128.28
AD	Sacramento Metropolitan AQMD	Annual	2028	338.91	392.72	460.89	589.02	73.92	85.56	100.90	128.39
AD	Sacramento Metropolitan AQMD	Annual	2029	338.91	392.85	460.87	589.18	73.93	85.64	100.92	128.50
AD	Sacramento Metropolitan AQMD	Annual	2030	338.91	392.98	460.87	589.35	73.93	85.71	100.93	128.60
AD	Sacramento Metropolitan AQMD	Annual	2031	338.92	393.12	460.86	589.51	73.94	85.79	100.94	128.70
AD	Sacramento Metropolitan AQMD	Annual	2032	338.92	393.24	460.86	589.69	73.94	85.85	100.95	128.80
AD	Sacramento Metropolitan AQMD	Annual	2033	338.92	393.34	460.85	589.84	73.95	85.91	100.96	128.88
AD	Sacramento Metropolitan AQMD	Annual	2034	338.92	393.44	460.84	589.99	73.95	85.97	100.96	128.96
AD	Sacramento Metropolitan AQMD	Annual	2035	338.92	393.51	460.84	590.12	73.95	86.02	100.97	129.04
AD	Sacramento Metropolitan AQMD	Summer	2010	375.62	427.51	513.20	646.48	72.89	84.85	99.62	124.76
AD	Sacramento Metropolitan AQMD	Summer	2011	376.19	429.01	513.26	646.92	72.94	84.61	99.69	124.96
AD	Sacramento Metropolitan AQMD	Summer	2012	376.70	430.30	513.35	647.57	73.00	84.46	99.78	125.19
AD	Sacramento Metropolitan AQMD	Summer	2013	377.16	431.37	513.46	648.38	73.08	84.39	99.88	125.44
AD	Sacramento Metropolitan AQMD	Summer	2014	377.55	432.28	513.62	649.25	73.15	84.34	99.96	125.69
AD	Sacramento Metropolitan AQMD	Summer	2015	377.89	433.05	513.77	650.20	73.24	84.33	100.03	125.96
AD	Sacramento Metropolitan AQMD	Summer	2016	378.19	433.69	513.89	651.12	73.35	84.32	100.13	126.23
AD	Sacramento Metropolitan AQMD	Summer	2017	378.39	434.26	513.97	651.99	73.41	84.30	100.21	126.50
AD	Sacramento Metropolitan AQMD	Summer	2018	378.53	434.71	513.99	652.74	73.47	84.32	100.29	126.76
AD	Sacramento Metropolitan AQMD	Summer	2019	376.67	432.84	511.33	650.00	73.53	84.47	100.38	126.99
AD	Sacramento Metropolitan AQMD	Summer	2020	376.76	433.18	511.31	650.57	73.64	84.63	100.47	127.20
AD	Sacramento Metropolitan AQMD	Summer	2021	376.83	433.55	511.26	650.99	73.72	84.80	100.57	127.38
AD	Sacramento Metropolitan AQMD	Summer	2022	376.86	433.86	511.21	651.34	73.78	84.95	100.64	127.54
AD	Sacramento Metropolitan AQMD	Summer	2023	376.88	434.12	511.16	651.60	73.82	85.07	100.71	127.71
AD	Sacramento Metropolitan AQMD	Summer	2024	376.89	434.33	511.11	651.76	73.85	85.19	100.76	127.86
AD	Sacramento Metropolitan AQMD	Summer	2025	376.91	434.52	511.07	651.91	73.87	85.29	100.81	128.00
AD	Sacramento Metropolitan AQMD	Summer	2026	376.91	434.70	511.07	652.09	73.89	85.39	100.85	128.15
AD	Sacramento Metropolitan AQMD	Summer	2027	376.93	434.88	511.07	652.26	73.91	85.48	100.88	128.28
AD	Sacramento Metropolitan AQMD	Summer	2028	376.94	435.06	511.07	652.43	73.92	85.56	100.90	128.39
AD	Sacramento Metropolitan AQMD	Summer	2029	376.95	435.25	511.08	652.61	73.93	85.64	100.92	128.50
AD	Sacramento Metropolitan AQMD	Summer	2030	376.96	435.44	511.08	652.80	73.93	85.71	100.93	128.60
AD	Sacramento Metropolitan AQMD	Summer	2031	376.96	435.63	511.08	652.97	73.94	85.79	100.94	128.70
AD	Sacramento Metropolitan AQMD	Summer	2032	376.97	435.80	511.07	653.16	73.94	85.85	100.95	128.80
AD	Sacramento Metropolitan AQMD	Summer	2033	376.98	435.94	511.07	653.35	73.95	85.91	100.96	128.88
AD	Sacramento Metropolitan AQMD	Summer	2034	376.98	436.06	511.06	653.53	73.95	85.97	100.96	128.96
AD	Sacramento Metropolitan AQMD	Summer	2035	376.98	436.16	511.05	653.69	73.95	86.02	100.97	129.04
AD	Sacramento Metropolitan AQMD	Winter	2010	328.26	377.97	450.28	567.73	72.89	84.85	99.62	124.76
AD	Sacramento Metropolitan AQMD	Winter	2011	328.50	378.59	450.15	568.31	72.94	84.61	99.69	124.96
AD	Sacramento Metropolitan AQMD	Winter	2012	328.76	379.17	450.05	568.93	73.00	84.46	99.78	125.19
AD	Sacramento Metropolitan AQMD	Winter	2013	329.01	379.69	449.97	569.59	73.08	84.39	99.88	125.44
AD	Sacramento Metropolitan AQMD	Winter	2014	329.25	380.15	449.91	570.23	73.15	84.34	99.96	125.69
AD	Sacramento Metropolitan AQMD	Winter	2015	329.48	380.58	449.87	570.88	73.24	84.33	100.03	125.96
AD	Sacramento Metropolitan AQMD	Winter	2016	329.69	380.95	449.84	571.48	73.35	84.32	100.13	126.23
AD	Sacramento Metropolitan AQMD	Winter	2017	329.86	381.29	449.81	572.05	73.41	84.30	100.21	126.50

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Sacramento Metropolitan AQMD	Winter	2018	329.99	381.58	449.80	572.55	73.47	84.32	100.29	126.76
AD	Sacramento Metropolitan AQMD	Winter	2019	328.41	379.90	447.49	570.06	73.53	84.47	100.38	126.99
AD	Sacramento Metropolitan AQMD	Winter	2020	328.52	380.16	447.49	570.46	73.64	84.63	100.47	127.20
AD	Sacramento Metropolitan AQMD	Winter	2021	328.60	380.41	447.49	570.77	73.72	84.80	100.57	127.38
AD	Sacramento Metropolitan AQMD	Winter	2022	328.65	380.61	447.49	571.03	73.78	84.95	100.64	127.54
AD	Sacramento Metropolitan AQMD	Winter	2023	328.67	380.77	447.48	571.23	73.82	85.07	100.71	127.71
AD	Sacramento Metropolitan AQMD	Winter	2024	328.67	380.89	447.47	571.38	73.85	85.19	100.76	127.86
AD	Sacramento Metropolitan AQMD	Winter	2025	328.68	381.01	447.47	571.53	73.87	85.29	100.81	128.00
AD	Sacramento Metropolitan AQMD	Winter	2026	328.70	381.14	447.46	571.70	73.89	85.39	100.85	128.15
AD	Sacramento Metropolitan AQMD	Winter	2027	328.71	381.25	447.45	571.86	73.91	85.48	100.88	128.28
AD	Sacramento Metropolitan AQMD	Winter	2028	328.72	381.37	447.43	572.02	73.92	85.56	100.90	128.39
AD	Sacramento Metropolitan AQMD	Winter	2029	328.72	381.49	447.42	572.18	73.93	85.64	100.92	128.50
AD	Sacramento Metropolitan AQMD	Winter	2030	328.72	381.60	447.41	572.34	73.93	85.71	100.93	128.60
AD	Sacramento Metropolitan AQMD	Winter	2031	328.72	381.72	447.40	572.50	73.94	85.79	100.94	128.70
AD	Sacramento Metropolitan AQMD	Winter	2032	328.72	381.83	447.39	572.67	73.94	85.85	100.95	128.80
AD	Sacramento Metropolitan AQMD	Winter	2033	328.72	381.92	447.39	572.82	73.95	85.91	100.96	128.88
AD	Sacramento Metropolitan AQMD	Winter	2034	328.72	382.01	447.38	572.96	73.95	85.97	100.96	128.96
AD	Sacramento Metropolitan AQMD	Winter	2035	328.71	382.08	447.37	573.07	73.95	86.02	100.97	129.04
AD	San Diego County APCD	Annual	2010	352.52	405.15	482.46	610.22	72.99	83.92	99.34	125.27
AD	San Diego County APCD	Annual	2011	353.81	407.05	483.85	612.57	73.01	83.88	99.44	125.44
AD	San Diego County APCD	Annual	2012	354.03	407.67	483.80	613.09	73.05	83.89	99.57	125.64
AD	San Diego County APCD	Annual	2013	354.28	408.23	483.77	613.65	73.12	83.94	99.70	125.85
AD	San Diego County APCD	Annual	2014	354.50	408.76	483.75	614.21	73.17	83.99	99.82	126.06
AD	San Diego County APCD	Annual	2015	354.72	409.25	483.74	614.79	73.24	84.07	99.93	126.29
AD	San Diego County APCD	Annual	2016	354.92	409.69	483.74	615.32	73.32	84.16	100.05	126.52
AD	San Diego County APCD	Annual	2017	355.08	410.10	483.73	615.84	73.37	84.25	100.15	126.74
AD	San Diego County APCD	Annual	2018	355.21	410.47	483.74	616.29	73.41	84.35	100.25	126.96
AD	San Diego County APCD	Annual	2019	355.33	410.82	483.74	616.69	73.46	84.52	100.35	127.15
AD	San Diego County APCD	Annual	2020	355.43	411.15	483.75	617.07	73.55	84.69	100.45	127.34
AD	San Diego County APCD	Annual	2021	356.07	412.11	484.56	618.41	73.62	84.87	100.55	127.52
AD	San Diego County APCD	Annual	2022	356.11	412.36	484.56	618.69	73.67	85.02	100.63	127.67
AD	San Diego County APCD	Annual	2023	356.12	412.55	484.56	618.89	73.71	85.15	100.70	127.83
AD	San Diego County APCD	Annual	2024	356.12	412.71	484.55	619.06	73.72	85.27	100.76	127.98
AD	San Diego County APCD	Annual	2025	356.11	412.86	484.55	619.23	73.74	85.38	100.81	128.12
AD	San Diego County APCD	Annual	2026	356.13	413.01	484.54	619.39	73.76	85.48	100.85	128.26
AD	San Diego County APCD	Annual	2027	356.14	413.16	484.53	619.54	73.77	85.57	100.88	128.38
AD	San Diego County APCD	Annual	2028	356.15	413.30	484.51	619.69	73.78	85.66	100.90	128.48
AD	San Diego County APCD	Annual	2029	356.15	413.45	484.50	619.84	73.79	85.74	100.92	128.58
AD	San Diego County APCD	Annual	2030	356.14	413.59	484.49	619.98	73.79	85.81	100.93	128.68
AD	San Diego County APCD	Annual	2031	356.14	413.74	484.48	620.13	73.80	85.89	100.94	128.77
AD	San Diego County APCD	Annual	2032	356.14	413.87	484.48	620.29	73.80	85.96	100.95	128.86
AD	San Diego County APCD	Annual	2033	356.14	414.00	484.47	620.43	73.80	86.02	100.96	128.93
AD	San Diego County APCD	Annual	2034	356.13	414.10	484.46	620.55	73.80	86.08	100.97	129.01
AD	San Diego County APCD	Annual	2035	356.13	414.20	484.46	620.67	73.81	86.13	100.97	129.08
AD	San Diego County APCD	Summer	2010	372.46	426.19	509.00	643.64	72.99	83.92	99.34	125.27
AD	San Diego County APCD	Summer	2011	373.89	428.41	510.48	645.96	73.01	83.88	99.44	125.44
AD	San Diego County APCD	Summer	2012	374.19	429.26	510.46	646.43	73.05	83.89	99.57	125.64
AD	San Diego County APCD	Summer	2013	374.48	430.00	510.47	646.99	73.12	83.94	99.70	125.85
AD	San Diego County APCD	Summer	2014	374.75	430.67	510.51	647.60	73.17	83.99	99.82	126.06
AD	San Diego County APCD	Summer	2015	375.00	431.27	510.56	648.26	73.24	84.07	99.93	126.29
AD	San Diego County APCD	Summer	2016	375.24	431.81	510.61	648.90	73.32	84.16	100.05	126.52
AD	San Diego County APCD	Summer	2017	375.42	432.30	510.65	649.52	73.37	84.25	100.15	126.74
AD	San Diego County APCD	Summer	2018	375.55	432.74	510.67	650.05	73.41	84.35	100.25	126.96
AD	San Diego County APCD	Summer	2019	375.68	433.15	510.68	650.53	73.46	84.52	100.35	127.15

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	San Diego County APCD	Summer	2020	375.78	433.52	510.68	650.97	73.55	84.69	100.45	127.34
AD	San Diego County APCD	Summer	2021	376.47	434.60	511.57	652.47	73.62	84.87	100.55	127.52
AD	San Diego County APCD	Summer	2022	376.52	434.90	511.57	652.82	73.67	85.02	100.63	127.67
AD	San Diego County APCD	Summer	2023	376.54	435.14	511.57	653.07	73.71	85.15	100.70	127.83
AD	San Diego County APCD	Summer	2024	376.54	435.34	511.56	653.27	73.72	85.27	100.76	127.98
AD	San Diego County APCD	Summer	2025	376.54	435.52	511.56	653.45	73.74	85.38	100.81	128.12
AD	San Diego County APCD	Summer	2026	376.55	435.72	511.54	653.62	73.76	85.48	100.85	128.26
AD	San Diego County APCD	Summer	2027	376.56	435.90	511.53	653.77	73.77	85.57	100.88	128.38
AD	San Diego County APCD	Summer	2028	376.57	436.07	511.51	653.92	73.78	85.66	100.90	128.48
AD	San Diego County APCD	Summer	2029	376.58	436.25	511.49	654.06	73.79	85.74	100.92	128.58
AD	San Diego County APCD	Summer	2030	376.58	436.43	511.48	654.21	73.79	85.81	100.93	128.68
AD	San Diego County APCD	Summer	2031	376.57	436.61	511.47	654.35	73.80	85.89	100.94	128.77
AD	San Diego County APCD	Summer	2032	376.57	436.77	511.46	654.51	73.80	85.96	100.95	128.86
AD	San Diego County APCD	Summer	2033	376.57	436.92	511.45	654.65	73.80	86.02	100.96	128.93
AD	San Diego County APCD	Summer	2034	376.57	437.04	511.45	654.79	73.80	86.08	100.97	129.01
AD	San Diego County APCD	Summer	2035	376.57	437.14	511.44	654.92	73.81	86.13	100.97	129.08
AD	San Diego County APCD	Winter	2010	348.91	401.34	477.65	604.17	72.99	83.92	99.34	125.27
AD	San Diego County APCD	Winter	2011	350.18	403.18	479.04	606.53	73.01	83.88	99.44	125.44
AD	San Diego County APCD	Winter	2012	350.39	403.76	478.98	607.06	73.05	83.89	99.57	125.64
AD	San Diego County APCD	Winter	2013	350.62	404.30	478.94	607.62	73.12	83.94	99.70	125.85
AD	San Diego County APCD	Winter	2014	350.83	404.79	478.91	608.17	73.17	83.99	99.82	126.06
AD	San Diego County APCD	Winter	2015	351.05	405.26	478.89	608.73	73.24	84.07	99.93	126.29
AD	San Diego County APCD	Winter	2016	351.25	405.69	478.88	609.25	73.32	84.16	100.05	126.52
AD	San Diego County APCD	Winter	2017	351.40	406.08	478.87	609.75	73.37	84.25	100.15	126.74
AD	San Diego County APCD	Winter	2018	351.53	406.44	478.86	610.18	73.41	84.35	100.25	126.96
AD	San Diego County APCD	Winter	2019	351.65	406.78	478.87	610.57	73.46	84.52	100.35	127.15
AD	San Diego County APCD	Winter	2020	351.75	407.10	478.87	610.94	73.55	84.69	100.45	127.34
AD	San Diego County APCD	Winter	2021	352.38	408.04	479.67	612.25	73.62	84.87	100.55	127.52
AD	San Diego County APCD	Winter	2022	352.42	408.28	479.67	612.51	73.67	85.02	100.63	127.67
AD	San Diego County APCD	Winter	2023	352.43	408.47	479.67	612.71	73.71	85.15	100.70	127.83
AD	San Diego County APCD	Winter	2024	352.42	408.62	479.66	612.87	73.72	85.27	100.76	127.98
AD	San Diego County APCD	Winter	2025	352.42	408.75	479.66	613.03	73.74	85.38	100.81	128.12
AD	San Diego County APCD	Winter	2026	352.43	408.90	479.65	613.20	73.76	85.48	100.85	128.26
AD	San Diego County APCD	Winter	2027	352.44	409.04	479.64	613.35	73.77	85.57	100.88	128.38
AD	San Diego County APCD	Winter	2028	352.45	409.18	479.63	613.50	73.78	85.66	100.90	128.48
AD	San Diego County APCD	Winter	2029	352.45	409.32	479.62	613.64	73.79	85.74	100.92	128.58
AD	San Diego County APCD	Winter	2030	352.45	409.46	479.60	613.79	73.79	85.81	100.93	128.68
AD	San Diego County APCD	Winter	2031	352.44	409.60	479.60	613.94	73.80	85.89	100.94	128.77
AD	San Diego County APCD	Winter	2032	352.44	409.73	479.59	614.10	73.80	85.96	100.95	128.86
AD	San Diego County APCD	Winter	2033	352.44	409.85	479.59	614.23	73.80	86.02	100.96	128.93
AD	San Diego County APCD	Winter	2034	352.44	409.95	479.58	614.36	73.80	86.08	100.97	129.01
AD	San Diego County APCD	Winter	2035	352.43	410.04	479.57	614.47	73.81	86.13	100.97	129.08
AD	San Joaquin Valley Unified APCD	Annual	2010	344.53	395.23	472.07	594.91	73.37	85.32	100.36	124.58
AD	San Joaquin Valley Unified APCD	Annual	2011	344.79	396.17	471.84	595.64	73.37	85.05	100.34	124.82
AD	San Joaquin Valley Unified APCD	Annual	2012	344.82	396.68	471.40	596.04	73.39	84.87	100.35	125.07
AD	San Joaquin Valley Unified APCD	Annual	2013	345.18	397.48	471.50	597.02	73.43	84.73	100.37	125.34
AD	San Joaquin Valley Unified APCD	Annual	2014	345.41	398.05	471.41	597.81	73.45	84.65	100.38	125.62
AD	San Joaquin Valley Unified APCD	Annual	2015	346.20	399.25	472.24	599.62	73.50	84.60	100.40	125.92
AD	San Joaquin Valley Unified APCD	Annual	2016	346.40	399.70	472.19	600.39	73.57	84.57	100.44	126.22
AD	San Joaquin Valley Unified APCD	Annual	2017	346.53	400.08	472.14	601.11	73.60	84.54	100.44	126.51
AD	San Joaquin Valley Unified APCD	Annual	2018	347.36	401.34	473.27	602.98	73.63	84.56	100.47	126.79
AD	San Joaquin Valley Unified APCD	Annual	2019	347.49	401.71	473.29	603.59	73.68	84.67	100.51	127.05
AD	San Joaquin Valley Unified APCD	Annual	2020	347.59	402.04	473.30	604.13	73.77	84.83	100.58	127.28
AD	San Joaquin Valley Unified APCD	Annual	2021	347.55	402.06	472.98	604.31	73.84	84.99	100.66	127.48

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	San Joaquin Valley Unified APCD	Annual	2022	347.60	402.27	472.95	604.67	73.89	85.13	100.73	127.64
AD	San Joaquin Valley Unified APCD	Annual	2023	347.63	402.44	472.93	604.96	73.92	85.25	100.78	127.82
AD	San Joaquin Valley Unified APCD	Annual	2024	347.85	403.02	473.49	605.81	73.94	85.37	100.83	127.98
AD	San Joaquin Valley Unified APCD	Annual	2025	347.86	403.16	473.48	606.02	73.96	85.47	100.86	128.14
AD	San Joaquin Valley Unified APCD	Annual	2026	348.71	404.36	474.80	607.63	73.98	85.57	100.89	128.28
AD	San Joaquin Valley Unified APCD	Annual	2027	348.72	404.49	474.74	607.80	73.99	85.65	100.92	128.41
AD	San Joaquin Valley Unified APCD	Annual	2028	348.73	404.62	474.69	607.97	74.00	85.74	100.93	128.53
AD	San Joaquin Valley Unified APCD	Annual	2029	348.73	404.75	474.65	608.15	74.01	85.81	100.94	128.63
AD	San Joaquin Valley Unified APCD	Annual	2030	348.73	404.88	474.61	608.33	74.01	85.88	100.95	128.74
AD	San Joaquin Valley Unified APCD	Annual	2031	348.73	405.01	474.57	608.48	74.02	85.95	100.96	128.83
AD	San Joaquin Valley Unified APCD	Annual	2032	348.73	405.13	474.53	608.63	74.02	86.02	100.96	128.92
AD	San Joaquin Valley Unified APCD	Annual	2033	348.73	405.23	474.50	608.78	74.02	86.07	100.97	129.00
AD	San Joaquin Valley Unified APCD	Annual	2034	348.73	405.32	474.47	608.91	74.03	86.12	100.97	129.08
AD	San Joaquin Valley Unified APCD	Annual	2035	348.74	405.39	474.45	609.03	74.03	86.17	100.98	129.15
AD	San Joaquin Valley Unified APCD	Summer	2010	378.79	430.24	517.12	652.23	73.37	85.32	100.36	124.58
AD	San Joaquin Valley Unified APCD	Summer	2011	379.32	432.07	517.21	652.97	73.37	85.05	100.34	124.82
AD	San Joaquin Valley Unified APCD	Summer	2012	379.51	433.17	516.96	653.39	73.39	84.87	100.35	125.07
AD	San Joaquin Valley Unified APCD	Summer	2013	380.02	434.48	517.27	654.53	73.43	84.73	100.37	125.34
AD	San Joaquin Valley Unified APCD	Summer	2014	380.35	435.44	517.38	655.51	73.45	84.65	100.38	125.62
AD	San Joaquin Valley Unified APCD	Summer	2015	381.29	437.04	518.48	657.68	73.50	84.60	100.40	125.92
AD	San Joaquin Valley Unified APCD	Summer	2016	381.55	437.73	518.55	658.71	73.57	84.57	100.44	126.22
AD	San Joaquin Valley Unified APCD	Summer	2017	381.72	438.33	518.60	659.66	73.60	84.54	100.44	126.51
AD	San Joaquin Valley Unified APCD	Summer	2018	382.62	439.83	519.89	661.84	73.63	84.56	100.47	126.79
AD	San Joaquin Valley Unified APCD	Summer	2019	382.75	440.33	519.93	662.62	73.68	84.67	100.51	127.05
AD	San Joaquin Valley Unified APCD	Summer	2020	382.86	440.77	519.95	663.30	73.77	84.83	100.58	127.28
AD	San Joaquin Valley Unified APCD	Summer	2021	382.80	440.85	519.59	663.56	73.84	84.99	100.66	127.48
AD	San Joaquin Valley Unified APCD	Summer	2022	382.85	441.14	519.54	664.00	73.89	85.13	100.73	127.64
AD	San Joaquin Valley Unified APCD	Summer	2023	382.88	441.39	519.49	664.34	73.92	85.25	100.78	127.82
AD	San Joaquin Valley Unified APCD	Summer	2024	383.14	442.10	520.11	665.29	73.94	85.37	100.83	127.98
AD	San Joaquin Valley Unified APCD	Summer	2025	383.16	442.31	520.10	665.52	73.96	85.47	100.86	128.14
AD	San Joaquin Valley Unified APCD	Summer	2026	384.09	443.68	521.54	667.23	73.98	85.57	100.89	128.28
AD	San Joaquin Valley Unified APCD	Summer	2027	384.11	443.88	521.48	667.40	73.99	85.65	100.92	128.41
AD	San Joaquin Valley Unified APCD	Summer	2028	384.12	444.07	521.44	667.58	74.00	85.74	100.93	128.53
AD	San Joaquin Valley Unified APCD	Summer	2029	384.14	444.28	521.41	667.76	74.01	85.81	100.94	128.63
AD	San Joaquin Valley Unified APCD	Summer	2030	384.15	444.48	521.38	667.96	74.01	85.88	100.95	128.74
AD	San Joaquin Valley Unified APCD	Summer	2031	384.15	444.67	521.34	668.13	74.02	85.95	100.96	128.83
AD	San Joaquin Valley Unified APCD	Summer	2032	384.15	444.83	521.31	668.31	74.02	86.02	100.96	128.92
AD	San Joaquin Valley Unified APCD	Summer	2033	384.15	444.97	521.29	668.48	74.02	86.07	100.97	129.00
AD	San Joaquin Valley Unified APCD	Summer	2034	384.16	445.10	521.27	668.66	74.03	86.12	100.97	129.08
AD	San Joaquin Valley Unified APCD	Summer	2035	384.17	445.18	521.25	668.82	74.03	86.17	100.98	129.15
AD	San Joaquin Valley Unified APCD	Winter	2010	331.71	382.09	455.17	573.36	73.37	85.32	100.36	124.58
AD	San Joaquin Valley Unified APCD	Winter	2011	331.86	382.70	454.81	574.06	73.37	85.05	100.34	124.82
AD	San Joaquin Valley Unified APCD	Winter	2012	331.84	382.98	454.30	574.45	73.39	84.87	100.35	125.07
AD	San Joaquin Valley Unified APCD	Winter	2013	332.15	383.59	454.32	575.38	73.43	84.73	100.37	125.34
AD	San Joaquin Valley Unified APCD	Winter	2014	332.34	384.02	454.16	576.11	73.45	84.65	100.38	125.62
AD	San Joaquin Valley Unified APCD	Winter	2015	333.08	385.08	454.89	577.78	73.50	84.60	100.40	125.92
AD	San Joaquin Valley Unified APCD	Winter	2016	333.25	385.43	454.79	578.46	73.57	84.57	100.44	126.22
AD	San Joaquin Valley Unified APCD	Winter	2017	333.38	385.74	454.71	579.09	73.60	84.54	100.44	126.51
AD	San Joaquin Valley Unified APCD	Winter	2018	334.17	386.90	455.78	580.83	73.63	84.56	100.47	126.79
AD	San Joaquin Valley Unified APCD	Winter	2019	334.29	387.21	455.78	581.37	73.68	84.67	100.51	127.05
AD	San Joaquin Valley Unified APCD	Winter	2020	334.40	387.49	455.79	581.86	73.77	84.83	100.58	127.28
AD	San Joaquin Valley Unified APCD	Winter	2021	334.35	387.50	455.49	582.01	73.84	84.99	100.66	127.48
AD	San Joaquin Valley Unified APCD	Winter	2022	334.40	387.67	455.46	582.34	73.89	85.13	100.73	127.64
AD	San Joaquin Valley Unified APCD	Winter	2023	334.42	387.81	455.44	582.61	73.92	85.25	100.78	127.82

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	San Joaquin Valley Unified APCD	Winter	2024	334.63	388.34	455.98	583.42	73.94	85.37	100.83	127.98
AD	San Joaquin Valley Unified APCD	Winter	2025	334.64	388.44	455.97	583.62	73.96	85.47	100.86	128.14
AD	San Joaquin Valley Unified APCD	Winter	2026	335.45	389.58	457.23	585.17	73.98	85.57	100.89	128.28
AD	San Joaquin Valley Unified APCD	Winter	2027	335.46	389.68	457.17	585.33	73.99	85.65	100.92	128.41
AD	San Joaquin Valley Unified APCD	Winter	2028	335.46	389.78	457.12	585.50	74.00	85.74	100.93	128.53
AD	San Joaquin Valley Unified APCD	Winter	2029	335.46	389.88	457.06	585.66	74.01	85.81	100.94	128.63
AD	San Joaquin Valley Unified APCD	Winter	2030	335.45	389.98	457.02	585.83	74.01	85.88	100.95	128.74
AD	San Joaquin Valley Unified APCD	Winter	2031	335.45	390.08	456.97	585.97	74.02	85.95	100.96	128.83
AD	San Joaquin Valley Unified APCD	Winter	2032	335.44	390.18	456.93	586.11	74.02	86.02	100.96	128.92
AD	San Joaquin Valley Unified APCD	Winter	2033	335.44	390.27	456.89	586.24	74.02	86.07	100.97	129.00
AD	San Joaquin Valley Unified APCD	Winter	2034	335.44	390.34	456.86	586.35	74.03	86.12	100.97	129.08
AD	San Joaquin Valley Unified APCD	Winter	2035	335.44	390.41	456.83	586.45	74.03	86.17	100.98	129.15
AD	San Luis Obispo County APCD	Annual	2010	323.71	378.06	444.34	556.25	73.66	90.73	100.02	124.73
AD	San Luis Obispo County APCD	Annual	2011	323.66	377.48	443.78	556.86	73.53	89.58	100.04	124.90
AD	San Luis Obispo County APCD	Annual	2012	323.65	377.05	443.34	557.51	73.41	88.66	100.08	125.11
AD	San Luis Obispo County APCD	Annual	2013	323.72	376.63	442.99	558.19	73.36	87.82	100.14	125.34
AD	San Luis Obispo County APCD	Annual	2014	323.79	376.32	442.72	558.85	73.31	87.15	100.20	125.58
AD	San Luis Obispo County APCD	Annual	2015	323.89	376.00	442.50	559.54	73.31	86.48	100.25	125.85
AD	San Luis Obispo County APCD	Annual	2016	323.99	375.75	442.33	560.18	73.31	85.95	100.33	126.11
AD	San Luis Obispo County APCD	Annual	2017	324.07	375.53	442.19	560.79	73.31	85.47	100.39	126.38
AD	San Luis Obispo County APCD	Annual	2018	324.12	375.39	442.08	561.33	73.30	85.15	100.47	126.64
AD	San Luis Obispo County APCD	Annual	2019	324.17	375.38	441.99	561.79	73.31	85.03	100.54	126.87
AD	San Luis Obispo County APCD	Annual	2020	324.24	375.40	441.92	562.20	73.40	85.04	100.62	127.10
AD	San Luis Obispo County APCD	Annual	2021	324.29	375.51	441.85	562.51	73.47	85.15	100.70	127.27
AD	San Luis Obispo County APCD	Annual	2022	324.32	375.62	441.79	562.77	73.52	85.25	100.76	127.41
AD	San Luis Obispo County APCD	Annual	2023	324.30	375.69	441.73	562.97	73.56	85.34	100.82	127.59
AD	San Luis Obispo County APCD	Annual	2024	324.27	375.76	441.66	563.12	73.57	85.42	100.86	127.74
AD	San Luis Obispo County APCD	Annual	2025	324.25	375.82	441.61	563.29	73.59	85.49	100.89	127.90
AD	San Luis Obispo County APCD	Annual	2026	324.27	375.91	441.54	563.46	73.61	85.57	100.92	128.06
AD	San Luis Obispo County APCD	Annual	2027	324.28	375.99	441.47	563.63	73.63	85.63	100.94	128.19
AD	San Luis Obispo County APCD	Annual	2028	324.28	376.07	441.40	563.80	73.64	85.68	100.95	128.31
AD	San Luis Obispo County APCD	Annual	2029	324.27	376.16	441.32	563.96	73.64	85.74	100.95	128.43
AD	San Luis Obispo County APCD	Annual	2030	324.26	376.24	441.24	564.13	73.65	85.79	100.95	128.54
AD	San Luis Obispo County APCD	Annual	2031	324.26	376.33	441.20	564.31	73.65	85.84	100.96	128.65
AD	San Luis Obispo County APCD	Annual	2032	324.26	376.41	441.16	564.49	73.66	85.88	100.96	128.75
AD	San Luis Obispo County APCD	Annual	2033	324.25	376.48	441.13	564.65	73.66	85.92	100.97	128.84
AD	San Luis Obispo County APCD	Annual	2034	324.25	376.54	441.10	564.79	73.67	85.96	100.97	128.93
AD	San Luis Obispo County APCD	Annual	2035	324.24	376.60	441.08	564.92	73.67	86.00	100.97	129.01
AD	San Luis Obispo County APCD	Summer	2010	337.08	392.11	461.85	578.62	73.66	90.73	100.02	124.73
AD	San Luis Obispo County APCD	Summer	2011	337.15	391.73	461.44	579.22	73.53	89.58	100.04	124.90
AD	San Luis Obispo County APCD	Summer	2012	337.23	391.46	461.13	579.91	73.41	88.66	100.08	125.11
AD	San Luis Obispo County APCD	Summer	2013	337.36	391.21	460.89	580.65	73.36	87.82	100.14	125.34
AD	San Luis Obispo County APCD	Summer	2014	337.49	391.02	460.71	581.40	73.31	87.15	100.20	125.58
AD	San Luis Obispo County APCD	Summer	2015	337.63	390.82	460.57	582.19	73.31	86.48	100.25	125.85
AD	San Luis Obispo County APCD	Summer	2016	337.76	390.68	460.46	582.94	73.31	85.95	100.33	126.11
AD	San Luis Obispo County APCD	Summer	2017	337.85	390.56	460.36	583.64	73.31	85.47	100.39	126.38
AD	San Luis Obispo County APCD	Summer	2018	337.91	390.51	460.26	584.25	73.30	85.15	100.47	126.64
AD	San Luis Obispo County APCD	Summer	2019	337.96	390.55	460.18	584.77	73.31	85.03	100.54	126.87
AD	San Luis Obispo County APCD	Summer	2020	338.03	390.62	460.11	585.24	73.40	85.04	100.62	127.10
AD	San Luis Obispo County APCD	Summer	2021	338.07	390.76	460.04	585.58	73.47	85.15	100.70	127.27
AD	San Luis Obispo County APCD	Summer	2022	338.10	390.89	459.97	585.87	73.52	85.25	100.76	127.41
AD	San Luis Obispo County APCD	Summer	2023	338.08	390.99	459.91	586.10	73.56	85.34	100.82	127.59
AD	San Luis Obispo County APCD	Summer	2024	338.05	391.07	459.85	586.26	73.57	85.42	100.86	127.74
AD	San Luis Obispo County APCD	Summer	2025	338.04	391.16	459.80	586.42	73.59	85.49	100.89	127.90

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	San Luis Obispo County APCD	Summer	2026	338.05	391.26	459.73	586.60	73.61	85.57	100.92	128.06
AD	San Luis Obispo County APCD	Summer	2027	338.07	391.36	459.67	586.77	73.63	85.63	100.94	128.19
AD	San Luis Obispo County APCD	Summer	2028	338.07	391.45	459.61	586.94	73.64	85.68	100.95	128.31
AD	San Luis Obispo County APCD	Summer	2029	338.07	391.55	459.54	587.11	73.64	85.74	100.95	128.43
AD	San Luis Obispo County APCD	Summer	2030	338.06	391.65	459.47	587.29	73.65	85.79	100.95	128.54
AD	San Luis Obispo County APCD	Summer	2031	338.06	391.75	459.44	587.47	73.65	85.84	100.96	128.65
AD	San Luis Obispo County APCD	Summer	2032	338.06	391.85	459.41	587.66	73.66	85.88	100.96	128.75
AD	San Luis Obispo County APCD	Summer	2033	338.06	391.93	459.38	587.84	73.66	85.92	100.97	128.84
AD	San Luis Obispo County APCD	Summer	2034	338.06	391.99	459.35	588.00	73.67	85.96	100.97	128.93
AD	San Luis Obispo County APCD	Summer	2035	338.05	392.05	459.33	588.14	73.67	86.00	100.97	129.01
AD	San Luis Obispo County APCD	Winter	2010	321.04	375.26	440.86	551.80	73.66	90.73	100.02	124.73
AD	San Luis Obispo County APCD	Winter	2011	320.97	374.65	440.26	552.41	73.53	89.58	100.04	124.90
AD	San Luis Obispo County APCD	Winter	2012	320.95	374.18	439.80	553.05	73.41	88.66	100.08	125.11
AD	San Luis Obispo County APCD	Winter	2013	321.01	373.73	439.43	553.72	73.36	87.82	100.14	125.34
AD	San Luis Obispo County APCD	Winter	2014	321.07	373.40	439.14	554.36	73.31	87.15	100.20	125.58
AD	San Luis Obispo County APCD	Winter	2015	321.16	373.05	438.90	555.03	73.31	86.48	100.25	125.85
AD	San Luis Obispo County APCD	Winter	2016	321.25	372.78	438.72	555.65	73.31	85.95	100.33	126.11
AD	San Luis Obispo County APCD	Winter	2017	321.32	372.53	438.57	556.25	73.31	85.47	100.39	126.38
AD	San Luis Obispo County APCD	Winter	2018	321.37	372.38	438.46	556.77	73.30	85.15	100.47	126.64
AD	San Luis Obispo County APCD	Winter	2019	321.42	372.35	438.37	557.21	73.31	85.03	100.54	126.87
AD	San Luis Obispo County APCD	Winter	2020	321.50	372.37	438.30	557.61	73.40	85.04	100.62	127.10
AD	San Luis Obispo County APCD	Winter	2021	321.55	372.47	438.23	557.91	73.47	85.15	100.70	127.27
AD	San Luis Obispo County APCD	Winter	2022	321.57	372.57	438.17	558.16	73.52	85.25	100.76	127.41
AD	San Luis Obispo County APCD	Winter	2023	321.56	372.64	438.10	558.37	73.56	85.34	100.82	127.59
AD	San Luis Obispo County APCD	Winter	2024	321.53	372.71	438.04	558.51	73.57	85.42	100.86	127.74
AD	San Luis Obispo County APCD	Winter	2025	321.51	372.77	437.99	558.68	73.59	85.49	100.89	127.90
AD	San Luis Obispo County APCD	Winter	2026	321.52	372.85	437.92	558.85	73.61	85.57	100.92	128.06
AD	San Luis Obispo County APCD	Winter	2027	321.53	372.93	437.84	559.02	73.63	85.63	100.94	128.19
AD	San Luis Obispo County APCD	Winter	2028	321.53	373.01	437.77	559.19	73.64	85.68	100.95	128.31
AD	San Luis Obispo County APCD	Winter	2029	321.52	373.09	437.69	559.35	73.64	85.74	100.95	128.43
AD	San Luis Obispo County APCD	Winter	2030	321.51	373.17	437.61	559.52	73.65	85.79	100.95	128.54
AD	San Luis Obispo County APCD	Winter	2031	321.51	373.25	437.57	559.69	73.65	85.84	100.96	128.65
AD	San Luis Obispo County APCD	Winter	2032	321.51	373.33	437.53	559.87	73.66	85.88	100.96	128.75
AD	San Luis Obispo County APCD	Winter	2033	321.50	373.40	437.50	560.03	73.66	85.92	100.97	128.84
AD	San Luis Obispo County APCD	Winter	2034	321.50	373.46	437.47	560.17	73.67	85.96	100.97	128.93
AD	San Luis Obispo County APCD	Winter	2035	321.49	373.52	437.45	560.29	73.67	86.00	100.97	129.01
AD	Santa Barbara County APCD	Annual	2010	310.84	363.09	427.75	535.11	73.30	88.99	99.96	124.67
AD	Santa Barbara County APCD	Annual	2011	310.88	362.63	427.11	535.68	73.27	88.16	99.98	124.88
AD	Santa Barbara County APCD	Annual	2012	310.95	362.25	426.61	536.31	73.24	87.48	100.03	125.11
AD	Santa Barbara County APCD	Annual	2013	311.07	361.91	426.21	536.98	73.26	86.88	100.11	125.37
AD	Santa Barbara County APCD	Annual	2014	311.18	361.62	425.89	537.62	73.27	86.37	100.18	125.64
AD	Santa Barbara County APCD	Annual	2015	313.00	363.39	428.01	541.26	73.31	85.95	100.25	125.92
AD	Santa Barbara County APCD	Annual	2016	313.13	363.16	427.81	541.86	73.36	85.55	100.33	126.20
AD	Santa Barbara County APCD	Annual	2017	313.22	362.94	427.65	542.43	73.38	85.18	100.40	126.48
AD	Santa Barbara County APCD	Annual	2018	313.28	362.85	427.53	542.93	73.40	85.00	100.47	126.74
AD	Santa Barbara County APCD	Annual	2019	313.35	362.86	427.43	543.35	73.43	84.95	100.55	126.99
AD	Santa Barbara County APCD	Annual	2020	313.43	362.88	427.35	543.74	73.53	84.99	100.64	127.22
AD	Santa Barbara County APCD	Annual	2021	313.48	362.96	427.30	543.99	73.59	85.09	100.71	127.38
AD	Santa Barbara County APCD	Annual	2022	313.49	363.03	427.24	544.20	73.64	85.18	100.77	127.51
AD	Santa Barbara County APCD	Annual	2023	313.48	363.09	427.17	544.37	73.67	85.26	100.82	127.66
AD	Santa Barbara County APCD	Annual	2024	313.44	363.12	427.11	544.49	73.68	85.33	100.86	127.80
AD	Santa Barbara County APCD	Annual	2025	313.43	363.17	427.06	544.63	73.70	85.40	100.90	127.95
AD	Santa Barbara County APCD	Annual	2026	311.28	360.68	423.96	540.92	73.71	85.47	100.92	128.08
AD	Santa Barbara County APCD	Annual	2027	311.28	360.75	423.88	541.07	73.73	85.52	100.94	128.21

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Santa Barbara County APCD	Annual	2028	311.28	360.82	423.82	541.22	73.74	85.58	100.95	128.32
AD	Santa Barbara County APCD	Annual	2029	311.28	360.90	423.73	541.36	73.74	85.63	100.95	128.43
AD	Santa Barbara County APCD	Annual	2030	311.26	360.97	423.64	541.52	73.75	85.67	100.95	128.53
AD	Santa Barbara County APCD	Annual	2031	311.26	361.06	423.58	541.68	73.75	85.72	100.96	128.63
AD	Santa Barbara County APCD	Annual	2032	311.25	361.13	423.54	541.85	73.76	85.77	100.96	128.73
AD	Santa Barbara County APCD	Annual	2033	311.25	361.21	423.50	542.00	73.76	85.81	100.96	128.82
AD	Santa Barbara County APCD	Annual	2034	311.24	361.27	423.46	542.14	73.76	85.85	100.97	128.90
AD	Santa Barbara County APCD	Annual	2035	311.24	361.32	423.43	542.26	73.77	85.88	100.97	128.98
AD	Santa Barbara County APCD	Summer	2010	318.00	370.60	437.04	547.10	73.30	88.99	99.96	124.67
AD	Santa Barbara County APCD	Summer	2011	318.11	370.21	436.50	547.67	73.27	88.16	99.98	124.88
AD	Santa Barbara County APCD	Summer	2012	318.23	369.92	436.07	548.31	73.24	87.48	100.03	125.11
AD	Santa Barbara County APCD	Summer	2013	318.39	369.65	435.73	549.01	73.26	86.88	100.11	125.37
AD	Santa Barbara County APCD	Summer	2014	318.53	369.43	435.47	549.69	73.27	86.37	100.18	125.64
AD	Santa Barbara County APCD	Summer	2015	320.38	371.28	437.66	553.41	73.31	85.95	100.25	125.92
AD	Santa Barbara County APCD	Summer	2016	320.52	371.11	437.49	554.06	73.36	85.55	100.33	126.20
AD	Santa Barbara County APCD	Summer	2017	320.61	370.94	437.35	554.68	73.38	85.18	100.40	126.48
AD	Santa Barbara County APCD	Summer	2018	320.68	370.90	437.24	555.21	73.40	85.00	100.47	126.74
AD	Santa Barbara County APCD	Summer	2019	320.75	370.93	437.14	555.67	73.43	84.95	100.55	126.99
AD	Santa Barbara County APCD	Summer	2020	320.82	370.99	437.07	556.08	73.53	84.99	100.64	127.22
AD	Santa Barbara County APCD	Summer	2021	320.86	371.07	437.00	556.34	73.59	85.09	100.71	127.38
AD	Santa Barbara County APCD	Summer	2022	320.87	371.15	436.93	556.55	73.64	85.18	100.77	127.51
AD	Santa Barbara County APCD	Summer	2023	320.85	371.21	436.86	556.71	73.67	85.26	100.82	127.66
AD	Santa Barbara County APCD	Summer	2024	320.82	371.26	436.79	556.83	73.68	85.33	100.86	127.80
AD	Santa Barbara County APCD	Summer	2025	320.80	371.31	436.74	556.96	73.70	85.40	100.90	127.95
AD	Santa Barbara County APCD	Summer	2026	318.61	368.79	433.59	553.19	73.71	85.47	100.92	128.08
AD	Santa Barbara County APCD	Summer	2027	318.61	368.86	433.51	553.33	73.73	85.52	100.94	128.21
AD	Santa Barbara County APCD	Summer	2028	318.62	368.94	433.45	553.48	73.74	85.58	100.95	128.32
AD	Santa Barbara County APCD	Summer	2029	318.61	369.02	433.37	553.64	73.74	85.63	100.95	128.43
AD	Santa Barbara County APCD	Summer	2030	318.60	369.11	433.28	553.80	73.75	85.67	100.95	128.53
AD	Santa Barbara County APCD	Summer	2031	318.60	369.20	433.24	553.96	73.75	85.72	100.96	128.63
AD	Santa Barbara County APCD	Summer	2032	318.60	369.29	433.20	554.14	73.76	85.77	100.96	128.73
AD	Santa Barbara County APCD	Summer	2033	318.60	369.37	433.17	554.30	73.76	85.81	100.96	128.82
AD	Santa Barbara County APCD	Summer	2034	318.59	369.44	433.13	554.45	73.76	85.85	100.97	128.90
AD	Santa Barbara County APCD	Summer	2035	318.59	369.50	433.10	554.58	73.77	85.88	100.97	128.98
AD	Santa Barbara County APCD	Winter	2010	310.39	362.63	427.17	534.37	73.30	88.99	99.96	124.67
AD	Santa Barbara County APCD	Winter	2011	310.43	362.16	426.53	534.94	73.27	88.16	99.98	124.88
AD	Santa Barbara County APCD	Winter	2012	310.50	361.77	426.02	535.57	73.24	87.48	100.03	125.11
AD	Santa Barbara County APCD	Winter	2013	310.62	361.43	425.62	536.23	73.26	86.88	100.11	125.37
AD	Santa Barbara County APCD	Winter	2014	310.73	361.13	425.30	536.87	73.27	86.37	100.18	125.64
AD	Santa Barbara County APCD	Winter	2015	312.55	362.90	427.42	540.51	73.31	85.95	100.25	125.92
AD	Santa Barbara County APCD	Winter	2016	312.67	362.67	427.21	541.11	73.36	85.55	100.33	126.20
AD	Santa Barbara County APCD	Winter	2017	312.76	362.45	427.05	541.68	73.38	85.18	100.40	126.48
AD	Santa Barbara County APCD	Winter	2018	312.83	362.36	426.93	542.17	73.40	85.00	100.47	126.74
AD	Santa Barbara County APCD	Winter	2019	312.90	362.36	426.83	542.59	73.43	84.95	100.55	126.99
AD	Santa Barbara County APCD	Winter	2020	312.97	362.38	426.75	542.98	73.53	84.99	100.64	127.22
AD	Santa Barbara County APCD	Winter	2021	313.02	362.45	426.70	543.23	73.59	85.09	100.71	127.38
AD	Santa Barbara County APCD	Winter	2022	313.04	362.53	426.64	543.44	73.64	85.18	100.77	127.51
AD	Santa Barbara County APCD	Winter	2023	313.02	362.58	426.57	543.61	73.67	85.26	100.82	127.66
AD	Santa Barbara County APCD	Winter	2024	312.99	362.62	426.51	543.73	73.68	85.33	100.86	127.80
AD	Santa Barbara County APCD	Winter	2025	312.98	362.66	426.46	543.87	73.70	85.40	100.90	127.95
AD	Santa Barbara County APCD	Winter	2026	310.82	360.18	423.37	540.16	73.71	85.47	100.92	128.08
AD	Santa Barbara County APCD	Winter	2027	310.83	360.25	423.29	540.31	73.73	85.52	100.94	128.21
AD	Santa Barbara County APCD	Winter	2028	310.83	360.32	423.22	540.46	73.74	85.58	100.95	128.32
AD	Santa Barbara County APCD	Winter	2029	310.82	360.40	423.14	540.60	73.74	85.63	100.95	128.43

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Santa Barbara County APCD	Winter	2030	310.81	360.47	423.04	540.76	73.75	85.67	100.95	128.53
AD	Santa Barbara County APCD	Winter	2031	310.80	360.55	422.99	540.92	73.75	85.72	100.96	128.63
AD	Santa Barbara County APCD	Winter	2032	310.80	360.63	422.94	541.09	73.76	85.77	100.96	128.73
AD	Santa Barbara County APCD	Winter	2033	310.80	360.70	422.90	541.24	73.76	85.81	100.96	128.82
AD	Santa Barbara County APCD	Winter	2034	310.79	360.76	422.87	541.38	73.76	85.85	100.97	128.90
AD	Santa Barbara County APCD	Winter	2035	310.78	360.82	422.83	541.50	73.77	85.88	100.97	128.98
AD	Shasta County AQMD	Annual	2010	350.80	413.29	482.10	601.62	74.15	98.71	101.24	125.46
AD	Shasta County AQMD	Annual	2011	350.90	412.33	481.45	602.23	73.97	96.26	101.09	125.49
AD	Shasta County AQMD	Annual	2012	351.01	411.55	480.95	602.95	73.79	94.20	101.00	125.59
AD	Shasta County AQMD	Annual	2013	351.16	410.88	480.56	603.76	73.67	92.45	100.93	125.73
AD	Shasta County AQMD	Annual	2014	351.28	410.22	480.26	604.58	73.54	90.71	100.85	125.88
AD	Shasta County AQMD	Annual	2015	351.43	409.72	480.02	605.45	73.48	89.34	100.76	126.07
AD	Shasta County AQMD	Annual	2016	351.59	409.32	479.82	606.30	73.48	88.23	100.75	126.28
AD	Shasta County AQMD	Annual	2017	351.70	408.85	479.65	607.09	73.46	86.94	100.68	126.51
AD	Shasta County AQMD	Annual	2018	351.78	408.50	479.51	607.77	73.42	85.93	100.65	126.73
AD	Shasta County AQMD	Annual	2019	351.86	408.40	479.39	608.38	73.43	85.58	100.66	126.93
AD	Shasta County AQMD	Annual	2020	351.92	408.34	479.30	608.94	73.52	85.46	100.71	127.12
AD	Shasta County AQMD	Annual	2021	351.97	408.41	479.21	609.29	73.59	85.54	100.78	127.19
AD	Shasta County AQMD	Annual	2022	352.00	408.47	479.13	609.57	73.64	85.60	100.83	127.24
AD	Shasta County AQMD	Annual	2023	351.99	408.52	479.04	609.77	73.67	85.66	100.87	127.40
AD	Shasta County AQMD	Annual	2024	351.96	408.57	478.97	609.93	73.69	85.71	100.90	127.56
AD	Shasta County AQMD	Annual	2025	351.96	408.62	478.91	610.13	73.71	85.77	100.93	127.72
AD	Shasta County AQMD	Annual	2026	351.98	408.69	478.84	610.34	73.73	85.83	100.95	127.89
AD	Shasta County AQMD	Annual	2027	351.99	408.74	478.77	610.55	73.74	85.87	100.96	128.04
AD	Shasta County AQMD	Annual	2028	352.00	408.80	478.71	610.77	73.75	85.92	100.97	128.18
AD	Shasta County AQMD	Annual	2029	352.00	408.87	478.63	610.99	73.76	85.96	100.97	128.31
AD	Shasta County AQMD	Annual	2030	351.99	408.94	478.56	611.21	73.76	86.00	100.96	128.43
AD	Shasta County AQMD	Annual	2031	351.99	409.00	478.53	611.45	73.77	86.04	100.96	128.55
AD	Shasta County AQMD	Annual	2032	351.99	409.07	478.50	611.69	73.78	86.08	100.96	128.67
AD	Shasta County AQMD	Annual	2033	351.98	409.12	478.47	611.91	73.78	86.11	100.97	128.77
AD	Shasta County AQMD	Annual	2034	351.98	409.16	478.44	612.11	73.78	86.14	100.97	128.87
AD	Shasta County AQMD	Annual	2035	351.97	409.20	478.42	612.29	73.79	86.17	100.97	128.96
AD	Shasta County AQMD	Summer	2010	377.12	440.81	516.16	644.42	74.15	98.71	101.24	125.46
AD	Shasta County AQMD	Summer	2011	377.45	440.35	515.97	645.10	73.97	96.26	101.09	125.49
AD	Shasta County AQMD	Summer	2012	377.75	439.98	515.82	645.96	73.79	94.20	101.00	125.59
AD	Shasta County AQMD	Summer	2013	378.03	439.65	515.70	646.99	73.67	92.45	100.93	125.73
AD	Shasta County AQMD	Summer	2014	378.26	439.31	515.62	648.05	73.54	90.71	100.85	125.88
AD	Shasta County AQMD	Summer	2015	378.49	439.05	515.56	649.19	73.48	89.34	100.76	126.07
AD	Shasta County AQMD	Summer	2016	378.71	438.86	515.49	650.32	73.48	88.23	100.75	126.28
AD	Shasta County AQMD	Summer	2017	378.85	438.66	515.40	651.36	73.46	86.94	100.68	126.51
AD	Shasta County AQMD	Summer	2018	378.93	438.50	515.27	652.24	73.42	85.93	100.65	126.73
AD	Shasta County AQMD	Summer	2019	379.01	438.48	515.17	653.03	73.43	85.58	100.66	126.93
AD	Shasta County AQMD	Summer	2020	379.07	438.49	515.07	653.75	73.52	85.46	100.71	127.12
AD	Shasta County AQMD	Summer	2021	379.11	438.58	514.97	654.24	73.59	85.54	100.78	127.19
AD	Shasta County AQMD	Summer	2022	379.12	438.68	514.88	654.63	73.64	85.60	100.83	127.24
AD	Shasta County AQMD	Summer	2023	379.11	438.76	514.80	654.91	73.67	85.66	100.87	127.40
AD	Shasta County AQMD	Summer	2024	379.10	438.85	514.73	655.11	73.69	85.71	100.90	127.56
AD	Shasta County AQMD	Summer	2025	379.11	438.93	514.68	655.32	73.71	85.77	100.93	127.72
AD	Shasta County AQMD	Summer	2026	379.13	439.02	514.61	655.54	73.73	85.83	100.95	127.89
AD	Shasta County AQMD	Summer	2027	379.15	439.10	514.56	655.77	73.74	85.87	100.96	128.04
AD	Shasta County AQMD	Summer	2028	379.16	439.18	514.51	656.00	73.75	85.92	100.97	128.18
AD	Shasta County AQMD	Summer	2029	379.17	439.28	514.46	656.24	73.76	85.96	100.97	128.31
AD	Shasta County AQMD	Summer	2030	379.18	439.37	514.41	656.49	73.76	86.00	100.96	128.43
AD	Shasta County AQMD	Summer	2031	379.17	439.46	514.40	656.77	73.77	86.04	100.96	128.55

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Shasta County AQMD	Summer	2032	379.17	439.53	514.40	657.05	73.78	86.08	100.96	128.67
AD	Shasta County AQMD	Summer	2033	379.17	439.59	514.38	657.31	73.78	86.11	100.97	128.77
AD	Shasta County AQMD	Summer	2034	379.16	439.64	514.37	657.55	73.78	86.14	100.97	128.87
AD	Shasta County AQMD	Summer	2035	379.16	439.67	514.35	657.77	73.79	86.17	100.97	128.96
AD	Shasta County AQMD	Winter	2010	339.28	401.24	467.18	582.88	74.15	98.71	101.24	125.46
AD	Shasta County AQMD	Winter	2011	339.28	400.06	466.34	583.46	73.97	96.26	101.09	125.49
AD	Shasta County AQMD	Winter	2012	339.31	399.10	465.69	584.12	73.79	94.20	101.00	125.59
AD	Shasta County AQMD	Winter	2013	339.39	398.29	465.18	584.84	73.67	92.45	100.93	125.73
AD	Shasta County AQMD	Winter	2014	339.47	397.49	464.78	585.56	73.54	90.71	100.85	125.88
AD	Shasta County AQMD	Winter	2015	339.58	396.87	464.45	586.30	73.48	89.34	100.76	126.07
AD	Shasta County AQMD	Winter	2016	339.72	396.38	464.21	587.03	73.48	88.23	100.75	126.28
AD	Shasta County AQMD	Winter	2017	339.82	395.81	464.01	587.71	73.46	86.94	100.68	126.51
AD	Shasta County AQMD	Winter	2018	339.89	395.36	463.85	588.30	73.42	85.93	100.65	126.73
AD	Shasta County AQMD	Winter	2019	339.97	395.23	463.73	588.83	73.43	85.58	100.66	126.93
AD	Shasta County AQMD	Winter	2020	340.04	395.15	463.64	589.32	73.52	85.46	100.71	127.12
AD	Shasta County AQMD	Winter	2021	340.09	395.20	463.55	589.61	73.59	85.54	100.78	127.19
AD	Shasta County AQMD	Winter	2022	340.12	395.24	463.47	589.84	73.64	85.60	100.83	127.24
AD	Shasta County AQMD	Winter	2023	340.11	395.29	463.39	590.01	73.67	85.66	100.87	127.40
AD	Shasta County AQMD	Winter	2024	340.09	395.32	463.31	590.15	73.69	85.71	100.90	127.56
AD	Shasta County AQMD	Winter	2025	340.08	395.35	463.25	590.34	73.71	85.77	100.93	127.72
AD	Shasta County AQMD	Winter	2026	340.10	395.41	463.18	590.55	73.73	85.83	100.95	127.89
AD	Shasta County AQMD	Winter	2027	340.11	395.45	463.10	590.76	73.74	85.87	100.96	128.04
AD	Shasta County AQMD	Winter	2028	340.11	395.50	463.03	590.97	73.75	85.92	100.97	128.18
AD	Shasta County AQMD	Winter	2029	340.10	395.56	462.95	591.18	73.76	85.96	100.97	128.31
AD	Shasta County AQMD	Winter	2030	340.09	395.62	462.87	591.39	73.76	86.00	100.96	128.43
AD	Shasta County AQMD	Winter	2031	340.09	395.67	462.82	591.61	73.77	86.04	100.96	128.55
AD	Shasta County AQMD	Winter	2032	340.09	395.73	462.78	591.84	73.78	86.08	100.96	128.67
AD	Shasta County AQMD	Winter	2033	340.08	395.78	462.74	592.04	73.78	86.11	100.97	128.77
AD	Shasta County AQMD	Winter	2034	340.08	395.82	462.71	592.22	73.78	86.14	100.97	128.87
AD	Shasta County AQMD	Winter	2035	340.07	395.85	462.69	592.38	73.79	86.17	100.97	128.96
AD	Siskiyou County APCD	Annual	2010	378.80	444.35	519.95	649.03	74.19	93.56	102.24	125.12
AD	Siskiyou County APCD	Annual	2011	378.73	443.52	519.19	649.67	74.04	92.11	102.01	125.20
AD	Siskiyou County APCD	Annual	2012	378.70	442.82	518.58	650.49	73.88	90.89	101.82	125.30
AD	Siskiyou County APCD	Annual	2013	378.69	442.25	518.06	651.35	73.68	89.89	101.54	125.46
AD	Siskiyou County APCD	Annual	2014	378.76	441.72	517.67	652.21	73.60	88.92	101.36	125.61
AD	Siskiyou County APCD	Annual	2015	378.86	441.26	517.36	653.09	73.55	88.04	101.18	125.82
AD	Siskiyou County APCD	Annual	2016	378.97	440.88	517.10	653.95	73.55	87.27	101.06	126.05
AD	Siskiyou County APCD	Annual	2017	379.02	440.51	516.88	654.72	73.49	86.50	100.90	126.29
AD	Siskiyou County APCD	Annual	2018	379.03	440.25	516.71	655.39	73.41	85.98	100.79	126.52
AD	Siskiyou County APCD	Annual	2019	379.07	440.11	516.58	655.97	73.39	85.68	100.76	126.74
AD	Siskiyou County APCD	Annual	2020	379.14	439.98	516.47	656.46	73.48	85.54	100.80	126.95
AD	Siskiyou County APCD	Annual	2021	379.12	439.88	516.35	656.80	73.52	85.53	100.84	127.11
AD	Siskiyou County APCD	Annual	2022	379.05	439.72	516.23	657.04	73.53	85.50	100.87	127.20
AD	Siskiyou County APCD	Annual	2023	378.90	439.60	516.12	657.19	73.51	85.48	100.89	127.36
AD	Siskiyou County APCD	Annual	2024	378.77	439.53	516.02	657.33	73.48	85.50	100.91	127.52
AD	Siskiyou County APCD	Annual	2025	378.71	439.58	515.95	657.44	73.49	85.56	100.93	127.67
AD	Siskiyou County APCD	Annual	2026	378.72	439.71	515.87	657.62	73.51	85.65	100.95	127.82
AD	Siskiyou County APCD	Annual	2027	378.72	439.84	515.80	657.81	73.52	85.73	100.97	127.97
AD	Siskiyou County APCD	Annual	2028	378.72	439.97	515.74	658.01	73.53	85.81	100.98	128.11
AD	Siskiyou County APCD	Annual	2029	378.70	440.10	515.67	658.20	73.53	85.88	100.98	128.23
AD	Siskiyou County APCD	Annual	2030	378.68	440.21	515.58	658.40	73.54	85.95	100.97	128.36
AD	Siskiyou County APCD	Annual	2031	378.67	440.34	515.53	658.68	73.54	86.01	100.97	128.49
AD	Siskiyou County APCD	Annual	2032	378.67	440.44	515.49	658.96	73.55	86.07	100.98	128.62
AD	Siskiyou County APCD	Annual	2033	378.66	440.54	515.46	659.20	73.55	86.13	100.98	128.73

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Siskiyou County APCD	Annual	2034	378.65	440.63	515.42	659.41	73.56	86.18	100.98	128.83
AD	Siskiyou County APCD	Annual	2035	378.64	440.70	515.40	659.60	73.56	86.22	100.99	128.93
AD	Siskiyou County APCD	Summer	2010	393.78	458.70	539.46	673.02	74.19	93.56	102.24	125.12
AD	Siskiyou County APCD	Summer	2011	393.90	458.44	538.93	673.75	74.04	92.11	102.01	125.20
AD	Siskiyou County APCD	Summer	2012	394.02	458.19	538.51	674.72	73.88	90.89	101.82	125.30
AD	Siskiyou County APCD	Summer	2013	394.12	457.97	538.18	675.77	73.68	89.89	101.54	125.46
AD	Siskiyou County APCD	Summer	2014	394.26	457.73	537.93	676.82	73.60	88.92	101.36	125.61
AD	Siskiyou County APCD	Summer	2015	394.41	457.52	537.74	677.91	73.55	88.04	101.18	125.82
AD	Siskiyou County APCD	Summer	2016	394.55	457.35	537.58	678.96	73.55	87.27	101.06	126.05
AD	Siskiyou County APCD	Summer	2017	394.62	457.17	537.43	679.91	73.49	86.50	100.90	126.29
AD	Siskiyou County APCD	Summer	2018	394.63	457.04	537.29	680.74	73.41	85.98	100.79	126.52
AD	Siskiyou County APCD	Summer	2019	394.66	457.01	537.18	681.46	73.39	85.68	100.76	126.74
AD	Siskiyou County APCD	Summer	2020	394.72	456.98	537.09	682.06	73.48	85.54	100.80	126.95
AD	Siskiyou County APCD	Summer	2021	394.69	456.95	536.97	682.49	73.52	85.53	100.84	127.11
AD	Siskiyou County APCD	Summer	2022	394.62	456.88	536.86	682.82	73.53	85.50	100.87	127.20
AD	Siskiyou County APCD	Summer	2023	394.48	456.83	536.76	683.03	73.51	85.48	100.89	127.36
AD	Siskiyou County APCD	Summer	2024	394.35	456.84	536.67	683.22	73.48	85.50	100.91	127.52
AD	Siskiyou County APCD	Summer	2025	394.30	456.94	536.61	683.38	73.49	85.56	100.93	127.67
AD	Siskiyou County APCD	Summer	2026	394.32	457.11	536.53	683.57	73.51	85.65	100.95	127.82
AD	Siskiyou County APCD	Summer	2027	394.33	457.28	536.46	683.78	73.52	85.73	100.97	127.97
AD	Siskiyou County APCD	Summer	2028	394.34	457.44	536.40	684.00	73.53	85.81	100.98	128.11
AD	Siskiyou County APCD	Summer	2029	394.33	457.61	536.34	684.23	73.53	85.88	100.98	128.23
AD	Siskiyou County APCD	Summer	2030	394.32	457.77	536.26	684.47	73.54	85.95	100.97	128.36
AD	Siskiyou County APCD	Summer	2031	394.32	457.91	536.23	684.79	73.54	86.01	100.97	128.49
AD	Siskiyou County APCD	Summer	2032	394.32	458.04	536.21	685.10	73.55	86.07	100.98	128.62
AD	Siskiyou County APCD	Summer	2033	394.31	458.15	536.18	685.38	73.55	86.13	100.98	128.73
AD	Siskiyou County APCD	Summer	2034	394.30	458.25	536.16	685.63	73.56	86.18	100.98	128.83
AD	Siskiyou County APCD	Summer	2035	394.29	458.31	536.14	685.85	73.56	86.22	100.99	128.93
AD	Siskiyou County APCD	Winter	2010	373.71	439.47	513.32	640.88	74.19	93.56	102.24	125.12
AD	Siskiyou County APCD	Winter	2011	373.57	438.45	512.48	641.49	74.04	92.11	102.01	125.20
AD	Siskiyou County APCD	Winter	2012	373.50	437.60	511.81	642.25	73.88	90.89	101.82	125.30
AD	Siskiyou County APCD	Winter	2013	373.45	436.91	511.23	643.06	73.68	89.89	101.54	125.46
AD	Siskiyou County APCD	Winter	2014	373.49	436.28	510.79	643.86	73.60	88.92	101.36	125.61
AD	Siskiyou County APCD	Winter	2015	373.58	435.74	510.43	644.66	73.55	88.04	101.18	125.82
AD	Siskiyou County APCD	Winter	2016	373.68	435.28	510.15	645.45	73.55	87.27	101.06	126.05
AD	Siskiyou County APCD	Winter	2017	373.73	434.85	509.90	646.16	73.49	86.50	100.90	126.29
AD	Siskiyou County APCD	Winter	2018	373.74	434.55	509.71	646.78	73.41	85.98	100.79	126.52
AD	Siskiyou County APCD	Winter	2019	373.78	434.37	509.58	647.31	73.39	85.68	100.76	126.74
AD	Siskiyou County APCD	Winter	2020	373.85	434.21	509.47	647.77	73.48	85.54	100.80	126.95
AD	Siskiyou County APCD	Winter	2021	373.83	434.08	509.34	648.08	73.52	85.53	100.84	127.11
AD	Siskiyou County APCD	Winter	2022	373.76	433.89	509.22	648.29	73.53	85.50	100.87	127.20
AD	Siskiyou County APCD	Winter	2023	373.61	433.74	509.10	648.41	73.51	85.48	100.89	127.36
AD	Siskiyou County APCD	Winter	2024	373.47	433.65	509.00	648.53	73.48	85.50	100.91	127.52
AD	Siskiyou County APCD	Winter	2025	373.42	433.68	508.93	648.63	73.49	85.56	100.93	127.67
AD	Siskiyou County APCD	Winter	2026	373.42	433.81	508.85	648.81	73.51	85.65	100.95	127.82
AD	Siskiyou County APCD	Winter	2027	373.42	433.92	508.79	648.99	73.52	85.73	100.97	127.97
AD	Siskiyou County APCD	Winter	2028	373.41	434.03	508.72	649.17	73.53	85.81	100.98	128.11
AD	Siskiyou County APCD	Winter	2029	373.39	434.14	508.65	649.35	73.53	85.88	100.98	128.23
AD	Siskiyou County APCD	Winter	2030	373.36	434.25	508.56	649.55	73.54	85.95	100.97	128.36
AD	Siskiyou County APCD	Winter	2031	373.36	434.37	508.50	649.81	73.54	86.01	100.97	128.49
AD	Siskiyou County APCD	Winter	2032	373.35	434.47	508.45	650.08	73.55	86.07	100.98	128.62
AD	Siskiyou County APCD	Winter	2033	373.34	434.56	508.42	650.30	73.55	86.13	100.98	128.73
AD	Siskiyou County APCD	Winter	2034	373.34	434.64	508.38	650.51	73.56	86.18	100.98	128.83
AD	Siskiyou County APCD	Winter	2035	373.33	434.71	508.36	650.69	73.56	86.22	100.99	128.93

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	South Coast AQMD	Annual	2010	358.02	409.62	488.99	615.32	73.21	84.05	99.45	125.25
AD	South Coast AQMD	Annual	2011	358.54	410.54	489.35	616.40	73.23	84.00	99.55	125.44
AD	South Coast AQMD	Annual	2012	358.67	410.92	489.13	616.69	73.27	83.99	99.67	125.65
AD	South Coast AQMD	Annual	2013	358.87	411.39	488.96	617.06	73.33	84.01	99.79	125.87
AD	South Coast AQMD	Annual	2014	359.01	411.72	488.78	617.39	73.38	84.02	99.90	126.09
AD	South Coast AQMD	Annual	2015	359.50	412.41	489.04	618.24	73.44	84.08	100.01	126.32
AD	South Coast AQMD	Annual	2016	359.61	412.72	488.91	618.65	73.51	84.14	100.13	126.56
AD	South Coast AQMD	Annual	2017	359.68	413.00	488.78	619.05	73.56	84.22	100.22	126.80
AD	South Coast AQMD	Annual	2018	359.73	413.24	488.67	619.36	73.60	84.30	100.30	127.02
AD	South Coast AQMD	Annual	2019	359.09	412.70	487.70	618.61	73.64	84.46	100.39	127.22
AD	South Coast AQMD	Annual	2020	359.10	412.90	487.57	618.81	73.73	84.62	100.49	127.42
AD	South Coast AQMD	Annual	2021	359.90	414.07	488.59	620.47	73.80	84.79	100.58	127.58
AD	South Coast AQMD	Annual	2022	359.87	414.24	488.50	620.64	73.85	84.93	100.66	127.72
AD	South Coast AQMD	Annual	2023	359.81	414.36	488.41	620.74	73.88	85.06	100.72	127.88
AD	South Coast AQMD	Annual	2024	361.75	416.75	490.99	624.15	73.90	85.17	100.77	128.02
AD	South Coast AQMD	Annual	2025	361.67	416.81	490.90	624.21	73.92	85.28	100.82	128.15
AD	South Coast AQMD	Annual	2026	361.63	416.90	490.79	624.27	73.94	85.38	100.85	128.28
AD	South Coast AQMD	Annual	2027	361.58	416.99	490.68	624.32	73.95	85.47	100.88	128.40
AD	South Coast AQMD	Annual	2028	361.52	417.07	490.57	624.36	73.96	85.56	100.90	128.50
AD	South Coast AQMD	Annual	2029	361.45	417.16	490.46	624.40	73.97	85.64	100.92	128.60
AD	South Coast AQMD	Annual	2030	361.38	417.24	490.34	624.44	73.97	85.72	100.93	128.69
AD	South Coast AQMD	Annual	2031	361.74	417.83	490.77	625.15	73.98	85.80	100.94	128.78
AD	South Coast AQMD	Annual	2032	361.68	417.92	490.68	625.19	73.98	85.87	100.95	128.87
AD	South Coast AQMD	Annual	2033	361.62	417.98	490.58	625.22	73.99	85.93	100.96	128.95
AD	South Coast AQMD	Annual	2034	361.55	418.03	490.49	625.24	73.99	85.99	100.96	129.02
AD	South Coast AQMD	Annual	2035	361.48	418.05	490.39	625.25	73.99	86.05	100.97	129.09
AD	South Coast AQMD	Summer	2010	376.35	428.81	513.13	646.58	73.21	84.05	99.45	125.25
AD	South Coast AQMD	Summer	2011	376.97	430.12	513.62	647.72	73.23	84.00	99.55	125.44
AD	South Coast AQMD	Summer	2012	377.16	430.78	513.49	648.06	73.27	83.99	99.67	125.65
AD	South Coast AQMD	Summer	2013	377.42	431.49	513.42	648.53	73.33	84.01	99.79	125.87
AD	South Coast AQMD	Summer	2014	377.59	432.01	513.33	648.98	73.38	84.02	99.90	126.09
AD	South Coast AQMD	Summer	2015	378.15	432.89	513.72	650.01	73.44	84.08	100.01	126.32
AD	South Coast AQMD	Summer	2016	378.30	433.33	513.68	650.59	73.51	84.14	100.13	126.56
AD	South Coast AQMD	Summer	2017	378.41	433.75	513.63	651.14	73.56	84.22	100.22	126.80
AD	South Coast AQMD	Summer	2018	378.49	434.09	513.58	651.59	73.60	84.30	100.30	127.02
AD	South Coast AQMD	Summer	2019	377.86	433.63	512.63	650.96	73.64	84.46	100.39	127.22
AD	South Coast AQMD	Summer	2020	377.91	433.94	512.56	651.31	73.73	84.62	100.49	127.42
AD	South Coast AQMD	Summer	2021	378.79	435.26	513.67	653.16	73.80	84.79	100.58	127.58
AD	South Coast AQMD	Summer	2022	378.78	435.52	513.61	653.41	73.85	84.93	100.66	127.72
AD	South Coast AQMD	Summer	2023	378.75	435.72	513.53	653.58	73.88	85.06	100.72	127.88
AD	South Coast AQMD	Summer	2024	380.85	438.35	516.31	657.27	73.90	85.17	100.77	128.02
AD	South Coast AQMD	Summer	2025	380.80	438.49	516.23	657.36	73.92	85.28	100.82	128.15
AD	South Coast AQMD	Summer	2026	380.78	438.66	516.15	657.45	73.94	85.38	100.85	128.28
AD	South Coast AQMD	Summer	2027	380.75	438.81	516.07	657.53	73.95	85.47	100.88	128.40
AD	South Coast AQMD	Summer	2028	380.72	438.96	515.99	657.60	73.96	85.56	100.90	128.50
AD	South Coast AQMD	Summer	2029	380.68	439.12	515.91	657.67	73.97	85.64	100.92	128.60
AD	South Coast AQMD	Summer	2030	380.64	439.28	515.83	657.75	73.97	85.72	100.93	128.69
AD	South Coast AQMD	Summer	2031	381.06	439.99	516.35	658.58	73.98	85.80	100.94	128.78
AD	South Coast AQMD	Summer	2032	381.02	440.15	516.29	658.68	73.98	85.87	100.95	128.87
AD	South Coast AQMD	Summer	2033	380.98	440.27	516.23	658.77	73.99	85.93	100.96	128.95
AD	South Coast AQMD	Summer	2034	380.94	440.37	516.16	658.85	73.99	85.99	100.96	129.02
AD	South Coast AQMD	Summer	2035	380.89	440.43	516.10	658.92	73.99	86.05	100.97	129.09
AD	South Coast AQMD	Winter	2010	352.29	403.80	481.47	605.90	73.21	84.05	99.45	125.25
AD	South Coast AQMD	Winter	2011	352.78	404.63	481.81	606.99	73.23	84.00	99.55	125.44

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	South Coast AQMD	Winter	2012	352.90	404.95	481.58	607.30	73.27	83.99	99.67	125.65
AD	South Coast AQMD	Winter	2013	353.09	405.36	481.40	607.67	73.33	84.01	99.79	125.87
AD	South Coast AQMD	Winter	2014	353.22	405.65	481.21	608.00	73.38	84.02	99.90	126.09
AD	South Coast AQMD	Winter	2015	353.70	406.30	481.45	608.82	73.44	84.08	100.01	126.32
AD	South Coast AQMD	Winter	2016	353.80	406.58	481.31	609.21	73.51	84.14	100.13	126.56
AD	South Coast AQMD	Winter	2017	353.87	406.84	481.17	609.58	73.56	84.22	100.22	126.80
AD	South Coast AQMD	Winter	2018	353.92	407.05	481.05	609.87	73.60	84.30	100.30	127.02
AD	South Coast AQMD	Winter	2019	353.29	406.51	480.09	609.12	73.64	84.46	100.39	127.22
AD	South Coast AQMD	Winter	2020	353.30	406.69	479.97	609.30	73.73	84.62	100.49	127.42
AD	South Coast AQMD	Winter	2021	354.09	407.83	480.97	610.93	73.80	84.79	100.58	127.58
AD	South Coast AQMD	Winter	2022	354.06	407.98	480.89	611.09	73.85	84.93	100.66	127.72
AD	South Coast AQMD	Winter	2023	354.00	408.09	480.80	611.19	73.88	85.06	100.72	127.88
AD	South Coast AQMD	Winter	2024	355.90	410.41	483.33	614.52	73.90	85.17	100.77	128.02
AD	South Coast AQMD	Winter	2025	355.82	410.46	483.24	614.58	73.92	85.28	100.82	128.15
AD	South Coast AQMD	Winter	2026	355.78	410.54	483.14	614.65	73.94	85.38	100.85	128.28
AD	South Coast AQMD	Winter	2027	355.73	410.61	483.03	614.70	73.95	85.47	100.88	128.40
AD	South Coast AQMD	Winter	2028	355.68	410.69	482.93	614.74	73.96	85.56	100.90	128.50
AD	South Coast AQMD	Winter	2029	355.61	410.76	482.82	614.79	73.97	85.64	100.92	128.60
AD	South Coast AQMD	Winter	2030	355.54	410.84	482.71	614.83	73.97	85.72	100.93	128.69
AD	South Coast AQMD	Winter	2031	355.89	411.39	483.12	615.52	73.98	85.80	100.94	128.78
AD	South Coast AQMD	Winter	2032	355.83	411.47	483.03	615.56	73.98	85.87	100.95	128.87
AD	South Coast AQMD	Winter	2033	355.77	411.53	482.94	615.59	73.99	85.93	100.96	128.95
AD	South Coast AQMD	Winter	2034	355.71	411.57	482.84	615.61	73.99	85.99	100.96	129.02
AD	South Coast AQMD	Winter	2035	355.64	411.60	482.75	615.61	73.99	86.05	100.97	129.09
AD	Tehama County APCD	Annual	2010	347.71	408.08	478.44	596.20	73.92	97.65	101.75	125.26
AD	Tehama County APCD	Annual	2011	347.75	407.21	477.63	596.79	73.75	95.12	101.53	125.31
AD	Tehama County APCD	Annual	2012	347.86	406.66	477.01	597.48	73.65	93.32	101.40	125.42
AD	Tehama County APCD	Annual	2013	347.97	406.10	476.53	598.29	73.54	91.52	101.28	125.55
AD	Tehama County APCD	Annual	2014	348.09	405.68	476.15	599.09	73.46	90.11	101.17	125.71
AD	Tehama County APCD	Annual	2015	348.24	405.38	475.85	599.96	73.44	88.97	101.03	125.89
AD	Tehama County APCD	Annual	2016	348.39	405.05	475.61	600.78	73.43	87.78	100.95	126.12
AD	Tehama County APCD	Annual	2017	348.50	404.72	475.41	601.55	73.42	86.61	100.84	126.35
AD	Tehama County APCD	Annual	2018	348.57	404.51	475.24	602.23	73.38	85.79	100.77	126.58
AD	Tehama County APCD	Annual	2019	348.67	404.46	475.11	602.83	73.42	85.46	100.74	126.78
AD	Tehama County APCD	Annual	2020	348.75	404.42	475.00	603.36	73.52	85.32	100.77	126.99
AD	Tehama County APCD	Annual	2021	348.82	404.51	474.91	603.73	73.60	85.40	100.84	127.12
AD	Tehama County APCD	Annual	2022	348.84	404.58	474.81	603.99	73.65	85.48	100.88	127.15
AD	Tehama County APCD	Annual	2023	348.83	404.65	474.72	604.17	73.68	85.54	100.91	127.32
AD	Tehama County APCD	Annual	2024	348.79	404.72	474.64	604.33	73.69	85.61	100.94	127.48
AD	Tehama County APCD	Annual	2025	348.78	404.78	474.58	604.54	73.71	85.67	100.96	127.66
AD	Tehama County APCD	Annual	2026	348.80	404.87	474.51	604.75	73.74	85.74	100.98	127.82
AD	Tehama County APCD	Annual	2027	348.82	404.95	474.43	604.97	73.75	85.80	100.99	127.98
AD	Tehama County APCD	Annual	2028	348.82	405.02	474.36	605.19	73.76	85.86	100.99	128.12
AD	Tehama County APCD	Annual	2029	348.82	405.11	474.28	605.40	73.77	85.91	100.98	128.26
AD	Tehama County APCD	Annual	2030	348.81	405.19	474.20	605.62	73.77	85.96	100.97	128.38
AD	Tehama County APCD	Annual	2031	348.81	405.27	474.16	605.87	73.78	86.01	100.97	128.51
AD	Tehama County APCD	Annual	2032	348.81	405.34	474.13	606.13	73.78	86.06	100.97	128.63
AD	Tehama County APCD	Annual	2033	348.80	405.40	474.10	606.35	73.79	86.10	100.97	128.74
AD	Tehama County APCD	Annual	2034	348.80	405.45	474.07	606.55	73.79	86.14	100.97	128.85
AD	Tehama County APCD	Annual	2035	348.79	405.50	474.05	606.73	73.80	86.17	100.98	128.94
AD	Tehama County APCD	Summer	2010	383.41	444.94	524.62	654.31	73.92	97.65	101.75	125.26
AD	Tehama County APCD	Summer	2011	383.77	445.00	524.52	654.97	73.75	95.12	101.53	125.31
AD	Tehama County APCD	Summer	2012	384.14	445.10	524.43	655.86	73.65	93.32	101.40	125.42
AD	Tehama County APCD	Summer	2013	384.45	445.13	524.35	656.99	73.54	91.52	101.28	125.55

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Tehama County APCD	Summer	2014	384.73	445.13	524.29	658.11	73.46	90.11	101.17	125.71
AD	Tehama County APCD	Summer	2015	385.00	445.18	524.25	659.39	73.44	88.97	101.03	125.89
AD	Tehama County APCD	Summer	2016	385.23	445.19	524.18	660.60	73.43	87.78	100.95	126.12
AD	Tehama County APCD	Summer	2017	385.39	445.19	524.07	661.71	73.42	86.61	100.84	126.35
AD	Tehama County APCD	Summer	2018	385.47	445.18	523.93	662.69	73.38	85.79	100.77	126.58
AD	Tehama County APCD	Summer	2019	385.58	445.24	523.81	663.55	73.42	85.46	100.74	126.78
AD	Tehama County APCD	Summer	2020	385.65	445.32	523.70	664.29	73.52	85.32	100.77	126.99
AD	Tehama County APCD	Summer	2021	385.70	445.43	523.58	664.83	73.60	85.40	100.84	127.12
AD	Tehama County APCD	Summer	2022	385.72	445.55	523.48	665.26	73.65	85.48	100.88	127.15
AD	Tehama County APCD	Summer	2023	385.71	445.67	523.40	665.55	73.68	85.54	100.91	127.32
AD	Tehama County APCD	Summer	2024	385.66	445.84	523.33	665.79	73.69	85.61	100.94	127.48
AD	Tehama County APCD	Summer	2025	385.66	445.99	523.29	666.03	73.71	85.67	100.96	127.66
AD	Tehama County APCD	Summer	2026	385.69	446.14	523.22	666.24	73.74	85.74	100.98	127.82
AD	Tehama County APCD	Summer	2027	385.72	446.27	523.16	666.46	73.75	85.80	100.99	127.98
AD	Tehama County APCD	Summer	2028	385.74	446.39	523.12	666.69	73.76	85.86	100.99	128.12
AD	Tehama County APCD	Summer	2029	385.76	446.52	523.06	666.94	73.77	85.91	100.98	128.26
AD	Tehama County APCD	Summer	2030	385.77	446.65	523.02	667.20	73.77	85.96	100.97	128.38
AD	Tehama County APCD	Summer	2031	385.77	446.77	523.01	667.51	73.78	86.01	100.97	128.51
AD	Tehama County APCD	Summer	2032	385.77	446.86	523.00	667.82	73.78	86.06	100.97	128.63
AD	Tehama County APCD	Summer	2033	385.77	446.94	522.99	668.11	73.79	86.10	100.97	128.74
AD	Tehama County APCD	Summer	2034	385.77	447.00	522.97	668.39	73.79	86.14	100.97	128.85
AD	Tehama County APCD	Summer	2035	385.76	447.05	522.96	668.63	73.80	86.17	100.98	128.94
AD	Tehama County APCD	Winter	2010	339.88	399.98	468.30	583.44	73.92	97.65	101.75	125.26
AD	Tehama County APCD	Winter	2011	339.84	398.91	467.33	584.01	73.75	95.12	101.53	125.31
AD	Tehama County APCD	Winter	2012	339.89	398.22	466.60	584.66	73.65	93.32	101.40	125.42
AD	Tehama County APCD	Winter	2013	339.96	397.53	466.03	585.41	73.54	91.52	101.28	125.55
AD	Tehama County APCD	Winter	2014	340.05	397.02	465.58	586.13	73.46	90.11	101.17	125.71
AD	Tehama County APCD	Winter	2015	340.18	396.64	465.23	586.91	73.44	88.97	101.03	125.89
AD	Tehama County APCD	Winter	2016	340.30	396.23	464.95	587.65	73.43	87.78	100.95	126.12
AD	Tehama County APCD	Winter	2017	340.40	395.84	464.72	588.34	73.42	86.61	100.84	126.35
AD	Tehama County APCD	Winter	2018	340.46	395.57	464.55	588.96	73.38	85.79	100.77	126.58
AD	Tehama County APCD	Winter	2019	340.57	395.50	464.42	589.50	73.42	85.46	100.74	126.78
AD	Tehama County APCD	Winter	2020	340.65	395.45	464.31	589.99	73.52	85.32	100.77	126.99
AD	Tehama County APCD	Winter	2021	340.72	395.53	464.22	590.32	73.60	85.40	100.84	127.12
AD	Tehama County APCD	Winter	2022	340.75	395.59	464.13	590.54	73.65	85.48	100.88	127.15
AD	Tehama County APCD	Winter	2023	340.74	395.64	464.04	590.70	73.68	85.54	100.91	127.32
AD	Tehama County APCD	Winter	2024	340.69	395.69	463.95	590.84	73.69	85.61	100.94	127.48
AD	Tehama County APCD	Winter	2025	340.69	395.73	463.89	591.04	73.71	85.67	100.96	127.66
AD	Tehama County APCD	Winter	2026	340.71	395.81	463.81	591.25	73.74	85.74	100.98	127.82
AD	Tehama County APCD	Winter	2027	340.72	395.87	463.73	591.47	73.75	85.80	100.99	127.98
AD	Tehama County APCD	Winter	2028	340.72	395.94	463.66	591.68	73.76	85.86	100.99	128.12
AD	Tehama County APCD	Winter	2029	340.71	396.01	463.57	591.89	73.77	85.91	100.98	128.26
AD	Tehama County APCD	Winter	2030	340.70	396.08	463.49	592.11	73.77	85.96	100.97	128.38
AD	Tehama County APCD	Winter	2031	340.69	396.15	463.44	592.34	73.78	86.01	100.97	128.51
AD	Tehama County APCD	Winter	2032	340.69	396.22	463.40	592.58	73.78	86.06	100.97	128.63
AD	Tehama County APCD	Winter	2033	340.69	396.28	463.36	592.79	73.79	86.10	100.97	128.74
AD	Tehama County APCD	Winter	2034	340.68	396.33	463.33	592.98	73.79	86.14	100.97	128.85
AD	Tehama County APCD	Winter	2035	340.68	396.38	463.31	593.14	73.80	86.17	100.98	128.94
AD	Tuolumne County APCD	Annual	2010	351.80	409.05	482.29	602.53	74.53	90.23	101.65	124.41
AD	Tuolumne County APCD	Annual	2011	351.82	408.95	481.75	603.20	74.32	89.28	101.47	124.55
AD	Tuolumne County APCD	Annual	2012	351.88	408.91	481.33	604.01	74.15	88.59	101.37	124.74
AD	Tuolumne County APCD	Annual	2013	351.99	408.83	480.99	604.89	74.02	87.89	101.25	124.97
AD	Tuolumne County APCD	Annual	2014	352.09	408.75	480.72	605.77	73.90	87.27	101.07	125.20
AD	Tuolumne County APCD	Annual	2015	352.23	408.71	480.51	606.66	73.86	86.74	100.95	125.47

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Tuolomne County APCD	Annual	2016	352.33	408.71	480.34	607.53	73.81	86.35	100.89	125.75
AD	Tuolomne County APCD	Annual	2017	352.40	408.66	480.19	608.32	73.73	85.87	100.79	126.04
AD	Tuolomne County APCD	Annual	2018	352.44	408.65	480.07	609.00	73.66	85.55	100.74	126.32
AD	Tuolomne County APCD	Annual	2019	352.50	408.66	479.98	609.60	73.64	85.35	100.71	126.58
AD	Tuolomne County APCD	Annual	2020	352.53	408.71	479.91	610.12	73.71	85.33	100.75	126.82
AD	Tuolomne County APCD	Annual	2021	352.52	408.72	479.81	610.51	73.75	85.36	100.79	127.02
AD	Tuolomne County APCD	Annual	2022	352.49	408.72	479.74	610.83	73.77	85.39	100.83	127.18
AD	Tuolomne County APCD	Annual	2023	352.42	408.71	479.67	611.05	73.77	85.42	100.87	127.37
AD	Tuolomne County APCD	Annual	2024	352.35	408.71	479.60	611.23	73.76	85.46	100.89	127.55
AD	Tuolomne County APCD	Annual	2025	352.30	408.78	479.56	611.41	73.76	85.53	100.93	127.72
AD	Tuolomne County APCD	Annual	2026	352.31	408.91	479.51	611.58	73.78	85.63	100.95	127.88
AD	Tuolomne County APCD	Annual	2027	352.31	409.03	479.46	611.78	73.79	85.72	100.97	128.03
AD	Tuolomne County APCD	Annual	2028	352.31	409.16	479.41	611.96	73.80	85.80	100.98	128.17
AD	Tuolomne County APCD	Annual	2029	352.30	409.28	479.35	612.15	73.80	85.87	100.98	128.30
AD	Tuolomne County APCD	Annual	2030	352.29	409.39	479.30	612.34	73.81	85.94	100.98	128.42
AD	Tuolomne County APCD	Annual	2031	352.28	409.51	479.27	612.58	73.81	86.01	100.98	128.55
AD	Tuolomne County APCD	Annual	2032	352.28	409.62	479.24	612.83	73.82	86.08	100.98	128.67
AD	Tuolomne County APCD	Annual	2033	352.28	409.71	479.22	613.04	73.82	86.13	100.99	128.78
AD	Tuolomne County APCD	Annual	2034	352.28	409.79	479.20	613.24	73.83	86.19	100.99	128.88
AD	Tuolomne County APCD	Annual	2035	352.27	409.86	479.19	613.41	73.83	86.23	101.00	128.97
AD	Tuolomne County APCD	Summer	2010	379.58	436.17	518.68	647.34	74.53	90.23	101.65	124.41
AD	Tuolomne County APCD	Summer	2011	379.89	437.05	518.44	648.13	74.32	89.28	101.47	124.55
AD	Tuolomne County APCD	Summer	2012	380.18	437.74	518.26	649.15	74.15	88.59	101.37	124.74
AD	Tuolomne County APCD	Summer	2013	380.45	438.26	518.15	650.32	74.02	87.89	101.25	124.97
AD	Tuolomne County APCD	Summer	2014	380.68	438.66	518.10	651.50	73.90	87.27	101.07	125.20
AD	Tuolomne County APCD	Summer	2015	380.90	439.01	518.08	652.73	73.86	86.74	100.95	125.47
AD	Tuolomne County APCD	Summer	2016	381.07	439.30	518.06	653.92	73.81	86.35	100.89	125.75
AD	Tuolomne County APCD	Summer	2017	381.16	439.53	518.01	654.99	73.73	85.87	100.79	126.04
AD	Tuolomne County APCD	Summer	2018	381.20	439.71	517.96	655.91	73.66	85.55	100.74	126.32
AD	Tuolomne County APCD	Summer	2019	381.25	439.89	517.91	656.72	73.64	85.35	100.71	126.58
AD	Tuolomne County APCD	Summer	2020	381.27	440.08	517.84	657.42	73.71	85.33	100.75	126.82
AD	Tuolomne County APCD	Summer	2021	381.25	440.21	517.77	657.94	73.75	85.36	100.79	127.02
AD	Tuolomne County APCD	Summer	2022	381.21	440.34	517.69	658.37	73.77	85.39	100.83	127.18
AD	Tuolomne County APCD	Summer	2023	381.14	440.44	517.62	658.69	73.77	85.42	100.87	127.37
AD	Tuolomne County APCD	Summer	2024	381.08	440.54	517.57	658.94	73.76	85.46	100.89	127.55
AD	Tuolomne County APCD	Summer	2025	381.03	440.66	517.52	659.17	73.76	85.53	100.93	127.72
AD	Tuolomne County APCD	Summer	2026	381.05	440.87	517.48	659.35	73.78	85.63	100.95	127.88
AD	Tuolomne County APCD	Summer	2027	381.07	441.05	517.44	659.54	73.79	85.72	100.97	128.03
AD	Tuolomne County APCD	Summer	2028	381.08	441.24	517.40	659.75	73.80	85.80	100.98	128.17
AD	Tuolomne County APCD	Summer	2029	381.09	441.43	517.36	659.96	73.80	85.87	100.98	128.30
AD	Tuolomne County APCD	Summer	2030	381.09	441.61	517.32	660.19	73.81	85.94	100.98	128.42
AD	Tuolomne County APCD	Summer	2031	381.10	441.78	517.30	660.50	73.81	86.01	100.98	128.55
AD	Tuolomne County APCD	Summer	2032	381.10	441.93	517.28	660.80	73.82	86.08	100.98	128.67
AD	Tuolomne County APCD	Summer	2033	381.09	442.04	517.26	661.07	73.82	86.13	100.99	128.78
AD	Tuolomne County APCD	Summer	2034	381.09	442.15	517.24	661.33	73.83	86.19	100.99	128.88
AD	Tuolomne County APCD	Summer	2035	381.08	442.22	517.22	661.55	73.83	86.23	101.00	128.97
AD	Tuolomne County APCD	Winter	2010	345.75	403.14	474.37	592.78	74.53	90.23	101.65	124.41
AD	Tuolomne County APCD	Winter	2011	345.71	402.84	473.77	593.43	74.32	89.28	101.47	124.55
AD	Tuolomne County APCD	Winter	2012	345.72	402.64	473.30	594.19	74.15	88.59	101.37	124.74
AD	Tuolomne County APCD	Winter	2013	345.79	402.42	472.91	595.00	74.02	87.89	101.25	124.97
AD	Tuolomne County APCD	Winter	2014	345.87	402.24	472.59	595.82	73.90	87.27	101.07	125.20
AD	Tuolomne County APCD	Winter	2015	345.99	402.12	472.33	596.64	73.86	86.74	100.95	125.47
AD	Tuolomne County APCD	Winter	2016	346.08	402.05	472.13	597.43	73.81	86.35	100.89	125.75
AD	Tuolomne County APCD	Winter	2017	346.14	401.95	471.96	598.16	73.73	85.87	100.79	126.04

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Tuolomne County APCD	Winter	2018	346.19	401.89	471.83	598.79	73.66	85.55	100.74	126.32
AD	Tuolomne County APCD	Winter	2019	346.24	401.87	471.73	599.34	73.64	85.35	100.71	126.58
AD	Tuolomne County APCD	Winter	2020	346.28	401.88	471.65	599.83	73.71	85.33	100.75	126.82
AD	Tuolomne County APCD	Winter	2021	346.27	401.86	471.55	600.19	73.75	85.36	100.79	127.02
AD	Tuolomne County APCD	Winter	2022	346.24	401.84	471.48	600.48	73.77	85.39	100.83	127.18
AD	Tuolomne County APCD	Winter	2023	346.16	401.81	471.41	600.69	73.77	85.42	100.87	127.37
AD	Tuolomne County APCD	Winter	2024	346.10	401.78	471.34	600.85	73.76	85.46	100.89	127.55
AD	Tuolomne County APCD	Winter	2025	346.04	401.84	471.30	601.01	73.76	85.53	100.93	127.72
AD	Tuolomne County APCD	Winter	2026	346.05	401.96	471.25	601.19	73.78	85.63	100.95	127.88
AD	Tuolomne County APCD	Winter	2027	346.05	402.06	471.20	601.38	73.79	85.72	100.97	128.03
AD	Tuolomne County APCD	Winter	2028	346.04	402.17	471.14	601.56	73.80	85.80	100.98	128.17
AD	Tuolomne County APCD	Winter	2029	346.03	402.28	471.08	601.74	73.80	85.87	100.98	128.30
AD	Tuolomne County APCD	Winter	2030	346.02	402.38	471.02	601.93	73.81	85.94	100.98	128.42
AD	Tuolomne County APCD	Winter	2031	346.01	402.49	470.99	602.16	73.81	86.01	100.98	128.55
AD	Tuolomne County APCD	Winter	2032	346.01	402.59	470.97	602.39	73.82	86.08	100.98	128.67
AD	Tuolomne County APCD	Winter	2033	346.01	402.67	470.95	602.59	73.82	86.13	100.99	128.78
AD	Tuolomne County APCD	Winter	2034	346.01	402.75	470.93	602.77	73.83	86.19	100.99	128.88
AD	Tuolomne County APCD	Winter	2035	346.00	402.81	470.91	602.93	73.83	86.23	101.00	128.97
AD	Ventura County APCD	Annual	2010	333.21	383.06	456.23	576.41	73.39	83.96	99.49	125.11
AD	Ventura County APCD	Annual	2011	334.06	384.40	457.06	578.10	73.37	83.90	99.58	125.31
AD	Ventura County APCD	Annual	2012	334.23	384.93	456.97	578.64	73.35	83.91	99.69	125.52
AD	Ventura County APCD	Annual	2013	334.46	385.44	456.97	579.27	73.37	83.94	99.80	125.74
AD	Ventura County APCD	Annual	2014	334.61	385.87	456.92	579.81	73.35	83.96	99.91	125.96
AD	Ventura County APCD	Annual	2015	336.96	388.79	459.88	584.16	73.37	84.01	100.00	126.20
AD	Ventura County APCD	Annual	2016	337.13	389.18	459.85	584.69	73.42	84.08	100.11	126.44
AD	Ventura County APCD	Annual	2017	337.26	389.54	459.83	585.20	73.44	84.15	100.20	126.68
AD	Ventura County APCD	Annual	2018	337.37	389.86	459.82	585.65	73.47	84.25	100.29	126.90
AD	Ventura County APCD	Annual	2019	338.59	391.47	461.34	587.98	73.51	84.41	100.38	127.11
AD	Ventura County APCD	Annual	2020	338.68	391.75	461.34	588.35	73.61	84.58	100.48	127.31
AD	Ventura County APCD	Annual	2021	340.62	394.18	463.90	591.89	73.68	84.75	100.57	127.48
AD	Ventura County APCD	Annual	2022	340.66	394.41	463.89	592.14	73.73	84.90	100.65	127.62
AD	Ventura County APCD	Annual	2023	340.67	394.58	463.88	592.33	73.77	85.03	100.71	127.78
AD	Ventura County APCD	Annual	2024	342.13	396.43	465.87	595.04	73.79	85.15	100.77	127.93
AD	Ventura County APCD	Annual	2025	342.13	396.57	465.87	595.19	73.81	85.26	100.81	128.07
AD	Ventura County APCD	Annual	2026	342.15	396.72	465.85	595.36	73.83	85.37	100.85	128.21
AD	Ventura County APCD	Annual	2027	342.16	396.87	465.84	595.51	73.84	85.46	100.88	128.33
AD	Ventura County APCD	Annual	2028	342.17	397.01	465.82	595.67	73.85	85.55	100.90	128.45
AD	Ventura County APCD	Annual	2029	342.17	397.16	465.80	595.81	73.86	85.64	100.92	128.55
AD	Ventura County APCD	Annual	2030	342.17	397.31	465.79	595.97	73.86	85.72	100.93	128.65
AD	Ventura County APCD	Annual	2031	343.80	399.36	468.01	598.97	73.87	85.80	100.94	128.74
AD	Ventura County APCD	Annual	2032	343.79	399.50	468.00	599.13	73.88	85.87	100.95	128.83
AD	Ventura County APCD	Annual	2033	343.79	399.63	467.99	599.27	73.88	85.94	100.96	128.92
AD	Ventura County APCD	Annual	2034	343.79	399.74	467.98	599.40	73.88	86.00	100.96	128.99
AD	Ventura County APCD	Annual	2035	343.79	399.84	467.97	599.52	73.89	86.06	100.97	129.06
AD	Ventura County APCD	Summer	2010	347.83	398.15	475.58	600.79	73.39	83.96	99.49	125.11
AD	Ventura County APCD	Summer	2011	348.77	399.76	476.48	602.48	73.37	83.90	99.58	125.31
AD	Ventura County APCD	Summer	2012	348.98	400.46	476.42	602.99	73.35	83.91	99.69	125.52
AD	Ventura County APCD	Summer	2013	349.27	401.14	476.48	603.66	73.37	83.94	99.80	125.74
AD	Ventura County APCD	Summer	2014	349.45	401.68	476.48	604.24	73.35	83.96	99.91	125.96
AD	Ventura County APCD	Summer	2015	351.94	404.82	479.63	608.85	73.37	84.01	100.00	126.20
AD	Ventura County APCD	Summer	2016	352.14	405.30	479.65	609.45	73.42	84.08	100.11	126.44
AD	Ventura County APCD	Summer	2017	352.28	405.73	479.66	610.04	73.44	84.15	100.20	126.68
AD	Ventura County APCD	Summer	2018	352.41	406.11	479.66	610.55	73.47	84.25	100.29	126.90
AD	Ventura County APCD	Summer	2019	353.67	407.82	481.25	613.02	73.51	84.41	100.38	127.11

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Ventura County APCD	Summer	2020	353.77	408.15	481.25	613.43	73.61	84.58	100.48	127.31
AD	Ventura County APCD	Summer	2021	355.80	410.74	483.94	617.18	73.68	84.75	100.57	127.48
AD	Ventura County APCD	Summer	2022	355.84	411.01	483.93	617.47	73.73	84.90	100.65	127.62
AD	Ventura County APCD	Summer	2023	355.85	411.23	483.92	617.68	73.77	85.03	100.71	127.78
AD	Ventura County APCD	Summer	2024	357.40	413.22	486.02	620.55	73.79	85.15	100.77	127.93
AD	Ventura County APCD	Summer	2025	357.40	413.40	486.01	620.72	73.81	85.26	100.81	128.07
AD	Ventura County APCD	Summer	2026	357.42	413.59	486.00	620.90	73.83	85.37	100.85	128.21
AD	Ventura County APCD	Summer	2027	357.43	413.77	485.98	621.06	73.84	85.46	100.88	128.33
AD	Ventura County APCD	Summer	2028	357.44	413.94	485.96	621.21	73.85	85.55	100.90	128.45
AD	Ventura County APCD	Summer	2029	357.45	414.12	485.94	621.36	73.86	85.64	100.92	128.55
AD	Ventura County APCD	Summer	2030	357.45	414.30	485.93	621.52	73.86	85.72	100.93	128.65
AD	Ventura County APCD	Summer	2031	359.14	416.47	488.25	624.65	73.87	85.80	100.94	128.74
AD	Ventura County APCD	Summer	2032	359.14	416.64	488.24	624.81	73.88	85.87	100.95	128.83
AD	Ventura County APCD	Summer	2033	359.14	416.79	488.23	624.96	73.88	85.94	100.96	128.92
AD	Ventura County APCD	Summer	2034	359.13	416.92	488.22	625.10	73.88	86.00	100.96	128.99
AD	Ventura County APCD	Summer	2035	359.13	417.02	488.21	625.23	73.89	86.06	100.97	129.06
AD	Ventura County APCD	Winter	2010	330.44	380.19	452.56	571.78	73.39	83.96	99.49	125.11
AD	Ventura County APCD	Winter	2011	331.27	381.49	453.38	573.48	73.37	83.90	99.58	125.31
AD	Ventura County APCD	Winter	2012	331.43	381.98	453.29	574.02	73.35	83.91	99.69	125.52
AD	Ventura County APCD	Winter	2013	331.65	382.46	453.27	574.64	73.37	83.94	99.80	125.74
AD	Ventura County APCD	Winter	2014	331.80	382.87	453.21	575.18	73.35	83.96	99.91	125.96
AD	Ventura County APCD	Winter	2015	334.12	385.75	456.13	579.48	73.37	84.01	100.00	126.20
AD	Ventura County APCD	Winter	2016	334.29	386.12	456.10	579.99	73.42	84.08	100.11	126.44
AD	Ventura County APCD	Winter	2017	334.41	386.47	456.07	580.49	73.44	84.15	100.20	126.68
AD	Ventura County APCD	Winter	2018	334.52	386.78	456.06	580.93	73.47	84.25	100.29	126.90
AD	Ventura County APCD	Winter	2019	335.73	388.37	457.57	583.24	73.51	84.41	100.38	127.11
AD	Ventura County APCD	Winter	2020	335.82	388.65	457.57	583.59	73.61	84.58	100.48	127.31
AD	Ventura County APCD	Winter	2021	337.74	391.05	460.10	587.10	73.68	84.75	100.57	127.48
AD	Ventura County APCD	Winter	2022	337.78	391.26	460.10	587.34	73.73	84.90	100.65	127.62
AD	Ventura County APCD	Winter	2023	337.80	391.43	460.09	587.53	73.77	85.03	100.71	127.78
AD	Ventura County APCD	Winter	2024	339.24	393.25	462.06	590.20	73.79	85.15	100.77	127.93
AD	Ventura County APCD	Winter	2025	339.24	393.38	462.05	590.36	73.81	85.26	100.81	128.07
AD	Ventura County APCD	Winter	2026	339.26	393.53	462.04	590.52	73.83	85.37	100.85	128.21
AD	Ventura County APCD	Winter	2027	339.27	393.67	462.02	590.68	73.84	85.46	100.88	128.33
AD	Ventura County APCD	Winter	2028	339.28	393.81	462.01	590.83	73.85	85.55	100.90	128.45
AD	Ventura County APCD	Winter	2029	339.28	393.95	461.99	590.98	73.86	85.64	100.92	128.55
AD	Ventura County APCD	Winter	2030	339.28	394.09	461.98	591.13	73.86	85.72	100.93	128.65
AD	Ventura County APCD	Winter	2031	340.89	396.12	464.18	594.11	73.87	85.80	100.94	128.74
AD	Ventura County APCD	Winter	2032	340.89	396.26	464.17	594.27	73.88	85.87	100.95	128.83
AD	Ventura County APCD	Winter	2033	340.89	396.38	464.16	594.41	73.88	85.94	100.96	128.92
AD	Ventura County APCD	Winter	2034	340.89	396.49	464.15	594.54	73.88	86.00	100.96	128.99
AD	Ventura County APCD	Winter	2035	340.88	396.58	464.14	594.65	73.89	86.06	100.97	129.06
AD	Yolo/Solano AQMD	Annual	2010	348.81	400.50	478.26	603.67	73.04	85.15	99.95	124.98
AD	Yolo/Solano AQMD	Annual	2011	348.99	401.18	477.99	604.06	73.05	84.88	99.97	125.17
AD	Yolo/Solano AQMD	Annual	2012	349.17	401.79	477.76	604.52	73.06	84.74	100.04	125.39
AD	Yolo/Solano AQMD	Annual	2013	349.34	402.29	477.57	605.02	73.08	84.59	100.09	125.62
AD	Yolo/Solano AQMD	Annual	2014	349.51	402.73	477.42	605.55	73.11	84.49	100.15	125.86
AD	Yolo/Solano AQMD	Annual	2015	349.67	403.13	477.29	606.07	73.16	84.45	100.19	126.11
AD	Yolo/Solano AQMD	Annual	2016	353.97	408.29	483.02	614.15	73.24	84.45	100.26	126.36
AD	Yolo/Solano AQMD	Annual	2017	354.05	408.52	482.92	614.62	73.29	84.39	100.28	126.61
AD	Yolo/Solano AQMD	Annual	2018	354.10	408.72	482.83	615.03	73.36	84.42	100.33	126.85
AD	Yolo/Solano AQMD	Annual	2019	353.42	408.16	481.76	614.16	73.42	84.51	100.39	127.06
AD	Yolo/Solano AQMD	Annual	2020	353.47	408.43	481.69	614.50	73.52	84.64	100.48	127.26
AD	Yolo/Solano AQMD	Annual	2021	353.51	408.63	481.65	614.75	73.60	84.80	100.57	127.42

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Yolo/Solano AQMD	Annual	2022	353.51	408.79	481.60	614.94	73.65	84.93	100.65	127.57
AD	Yolo/Solano AQMD	Annual	2023	353.48	408.91	481.54	615.07	73.69	85.05	100.71	127.73
AD	Yolo/Solano AQMD	Annual	2024	353.46	409.04	481.46	615.10	73.72	85.17	100.76	127.87
AD	Yolo/Solano AQMD	Annual	2025	353.44	409.16	481.39	615.14	73.74	85.26	100.81	128.01
AD	Yolo/Solano AQMD	Annual	2026	354.57	410.57	482.91	617.16	73.77	85.36	100.84	128.15
AD	Yolo/Solano AQMD	Annual	2027	354.57	410.67	482.84	617.13	73.78	85.45	100.87	128.27
AD	Yolo/Solano AQMD	Annual	2028	354.56	410.76	482.78	617.10	73.79	85.53	100.90	128.39
AD	Yolo/Solano AQMD	Annual	2029	354.54	410.86	482.71	617.07	73.80	85.61	100.91	128.49
AD	Yolo/Solano AQMD	Annual	2030	354.51	410.96	482.64	617.06	73.80	85.69	100.92	128.59
AD	Yolo/Solano AQMD	Annual	2031	354.46	411.07	482.56	617.24	73.81	85.76	100.94	128.69
AD	Yolo/Solano AQMD	Annual	2032	354.41	411.16	482.49	617.41	73.81	85.83	100.94	128.79
AD	Yolo/Solano AQMD	Annual	2033	354.36	411.24	482.41	617.56	73.82	85.89	100.95	128.88
AD	Yolo/Solano AQMD	Annual	2034	354.31	411.30	482.34	617.69	73.82	85.95	100.96	128.96
AD	Yolo/Solano AQMD	Annual	2035	354.26	411.34	482.27	617.80	73.82	86.00	100.96	129.03
AD	Yolo/Solano AQMD	Summer	2010	384.05	437.08	524.93	662.32	73.04	85.15	99.95	124.98
AD	Yolo/Solano AQMD	Summer	2011	384.41	438.40	524.78	662.58	73.05	84.88	99.97	125.17
AD	Yolo/Solano AQMD	Summer	2012	384.74	439.53	524.67	663.02	73.06	84.74	100.04	125.39
AD	Yolo/Solano AQMD	Summer	2013	385.03	440.45	524.60	663.61	73.08	84.59	100.09	125.62
AD	Yolo/Solano AQMD	Summer	2014	385.29	441.23	524.61	664.29	73.11	84.49	100.15	125.86
AD	Yolo/Solano AQMD	Summer	2015	385.53	441.88	524.63	665.02	73.16	84.45	100.19	126.11
AD	Yolo/Solano AQMD	Summer	2016	390.28	447.65	531.00	673.98	73.24	84.45	100.26	126.36
AD	Yolo/Solano AQMD	Summer	2017	390.39	448.07	531.01	674.67	73.29	84.39	100.28	126.61
AD	Yolo/Solano AQMD	Summer	2018	390.46	448.37	530.97	675.24	73.36	84.42	100.33	126.85
AD	Yolo/Solano AQMD	Summer	2019	389.67	447.80	529.75	674.33	73.42	84.51	100.39	127.06
AD	Yolo/Solano AQMD	Summer	2020	389.71	448.17	529.67	674.78	73.52	84.64	100.48	127.26
AD	Yolo/Solano AQMD	Summer	2021	389.75	448.46	529.61	675.11	73.60	84.80	100.57	127.42
AD	Yolo/Solano AQMD	Summer	2022	389.75	448.70	529.53	675.38	73.65	84.93	100.65	127.57
AD	Yolo/Solano AQMD	Summer	2023	389.71	448.91	529.44	675.56	73.69	85.05	100.71	127.73
AD	Yolo/Solano AQMD	Summer	2024	389.70	449.12	529.33	675.60	73.72	85.17	100.76	127.87
AD	Yolo/Solano AQMD	Summer	2025	389.68	449.31	529.24	675.64	73.74	85.26	100.81	128.01
AD	Yolo/Solano AQMD	Summer	2026	390.91	450.90	530.91	677.83	73.77	85.36	100.84	128.15
AD	Yolo/Solano AQMD	Summer	2027	390.91	451.05	530.86	677.80	73.78	85.45	100.87	128.27
AD	Yolo/Solano AQMD	Summer	2028	390.90	451.20	530.81	677.78	73.79	85.53	100.90	128.39
AD	Yolo/Solano AQMD	Summer	2029	390.89	451.36	530.75	677.76	73.80	85.61	100.91	128.49
AD	Yolo/Solano AQMD	Summer	2030	390.87	451.53	530.69	677.75	73.80	85.69	100.92	128.59
AD	Yolo/Solano AQMD	Summer	2031	390.81	451.70	530.61	677.97	73.81	85.76	100.94	128.69
AD	Yolo/Solano AQMD	Summer	2032	390.76	451.83	530.54	678.19	73.81	85.83	100.94	128.79
AD	Yolo/Solano AQMD	Summer	2033	390.71	451.94	530.46	678.37	73.82	85.89	100.95	128.88
AD	Yolo/Solano AQMD	Summer	2034	390.67	452.04	530.39	678.55	73.82	85.95	100.96	128.96
AD	Yolo/Solano AQMD	Summer	2035	390.62	452.10	530.31	678.71	73.82	86.00	100.96	129.03
AD	Yolo/Solano AQMD	Winter	2010	339.81	391.18	466.38	588.76	73.04	85.15	99.95	124.98
AD	Yolo/Solano AQMD	Winter	2011	339.95	391.68	466.07	589.17	73.05	84.88	99.97	125.17
AD	Yolo/Solano AQMD	Winter	2012	340.09	392.16	465.81	589.62	73.06	84.74	100.04	125.39
AD	Yolo/Solano AQMD	Winter	2013	340.23	392.54	465.57	590.10	73.08	84.59	100.09	125.62
AD	Yolo/Solano AQMD	Winter	2014	340.36	392.90	465.38	590.58	73.11	84.49	100.15	125.86
AD	Yolo/Solano AQMD	Winter	2015	340.50	393.23	465.21	591.05	73.16	84.45	100.19	126.11
AD	Yolo/Solano AQMD	Winter	2016	344.68	398.23	470.76	598.89	73.24	84.45	100.26	126.36
AD	Yolo/Solano AQMD	Winter	2017	344.76	398.41	470.64	599.30	73.29	84.39	100.28	126.61
AD	Yolo/Solano AQMD	Winter	2018	344.80	398.57	470.54	599.66	73.36	84.42	100.33	126.85
AD	Yolo/Solano AQMD	Winter	2019	344.16	398.04	469.52	598.83	73.42	84.51	100.39	127.06
AD	Yolo/Solano AQMD	Winter	2020	344.20	398.28	469.45	599.14	73.52	84.64	100.48	127.26
AD	Yolo/Solano AQMD	Winter	2021	344.25	398.45	469.41	599.36	73.60	84.80	100.57	127.42
AD	Yolo/Solano AQMD	Winter	2022	344.25	398.59	469.37	599.54	73.65	84.93	100.65	127.57
AD	Yolo/Solano AQMD	Winter	2023	344.21	398.69	469.31	599.65	73.69	85.05	100.71	127.73

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
AD	Yolo/Solano AQMD	Winter	2024	344.19	398.80	469.24	599.67	73.72	85.17	100.76	127.87
AD	Yolo/Solano AQMD	Winter	2025	344.17	398.89	469.17	599.71	73.74	85.26	100.81	128.01
AD	Yolo/Solano AQMD	Winter	2026	345.28	400.27	470.65	601.67	73.77	85.36	100.84	128.15
AD	Yolo/Solano AQMD	Winter	2027	345.27	400.35	470.58	601.64	73.78	85.45	100.87	128.27
AD	Yolo/Solano AQMD	Winter	2028	345.26	400.42	470.51	601.60	73.79	85.53	100.90	128.39
AD	Yolo/Solano AQMD	Winter	2029	345.24	400.50	470.43	601.57	73.80	85.61	100.91	128.49
AD	Yolo/Solano AQMD	Winter	2030	345.21	400.59	470.36	601.54	73.80	85.69	100.92	128.59
AD	Yolo/Solano AQMD	Winter	2031	345.15	400.68	470.28	601.72	73.81	85.76	100.94	128.69
AD	Yolo/Solano AQMD	Winter	2032	345.10	400.75	470.21	601.88	73.81	85.83	100.94	128.79
AD	Yolo/Solano AQMD	Winter	2033	345.05	400.82	470.13	602.01	73.82	85.89	100.95	128.88
AD	Yolo/Solano AQMD	Winter	2034	345.00	400.87	470.05	602.13	73.82	85.95	100.96	128.96
AD	Yolo/Solano AQMD	Winter	2035	344.95	400.90	469.98	602.23	73.82	86.00	100.96	129.03
C	Alameda (SF)	Annual	2010	339.24	389.56	464.06	585.20	72.90	84.16	99.41	124.70
C	Alameda (SF)	Annual	2011	339.37	390.02	463.94	585.71	72.95	84.06	99.50	124.89
C	Alameda (SF)	Annual	2012	339.53	390.50	463.85	586.29	73.01	84.04	99.62	125.11
C	Alameda (SF)	Annual	2013	339.73	390.93	463.79	586.90	73.09	84.03	99.75	125.34
C	Alameda (SF)	Annual	2014	339.91	391.34	463.74	587.52	73.16	84.04	99.85	125.58
C	Alameda (SF)	Annual	2015	340.11	391.74	463.71	588.15	73.24	84.08	99.96	125.84
C	Alameda (SF)	Annual	2016	340.29	392.13	463.69	588.75	73.33	84.14	100.07	126.09
C	Alameda (SF)	Annual	2017	340.43	392.49	463.67	589.32	73.39	84.20	100.16	126.35
C	Alameda (SF)	Annual	2018	340.55	392.81	463.66	589.82	73.43	84.28	100.25	126.59
C	Alameda (SF)	Annual	2019	340.66	393.13	463.66	590.26	73.49	84.42	100.34	126.81
C	Alameda (SF)	Annual	2020	340.77	393.43	463.66	590.66	73.60	84.58	100.44	127.03
C	Alameda (SF)	Annual	2021	340.84	393.69	463.67	590.99	73.67	84.75	100.53	127.21
C	Alameda (SF)	Annual	2022	340.88	393.91	463.66	591.27	73.73	84.89	100.62	127.35
C	Alameda (SF)	Annual	2023	340.88	394.08	463.65	591.48	73.77	85.02	100.68	127.52
C	Alameda (SF)	Annual	2024	340.86	394.22	463.64	591.66	73.79	85.14	100.74	127.68
C	Alameda (SF)	Annual	2025	340.85	394.35	463.64	591.84	73.81	85.24	100.79	127.84
C	Alameda (SF)	Annual	2026	340.87	394.50	463.62	592.03	73.83	85.34	100.83	127.99
C	Alameda (SF)	Annual	2027	340.88	394.65	463.61	592.20	73.85	85.44	100.86	128.12
C	Alameda (SF)	Annual	2028	340.88	394.80	463.59	592.38	73.86	85.52	100.89	128.25
C	Alameda (SF)	Annual	2029	340.88	394.96	463.57	592.55	73.87	85.61	100.90	128.36
C	Alameda (SF)	Annual	2030	340.87	395.12	463.56	592.72	73.87	85.69	100.92	128.47
C	Alameda (SF)	Annual	2031	340.87	395.28	463.55	592.91	73.88	85.76	100.93	128.58
C	Alameda (SF)	Annual	2032	340.87	395.44	463.54	593.10	73.88	85.84	100.94	128.68
C	Alameda (SF)	Annual	2033	340.86	395.58	463.53	593.27	73.89	85.90	100.95	128.77
C	Alameda (SF)	Annual	2034	340.86	395.71	463.52	593.42	73.89	85.97	100.95	128.86
C	Alameda (SF)	Annual	2035	340.85	395.82	463.51	593.56	73.89	86.02	100.96	128.94
C	Alameda (SF)	Summer	2010	366.44	417.66	500.31	630.82	72.90	84.16	99.41	124.70
C	Alameda (SF)	Summer	2011	366.76	418.54	500.25	631.22	72.95	84.06	99.50	124.89
C	Alameda (SF)	Summer	2012	367.07	419.37	500.24	631.77	73.01	84.04	99.62	125.11
C	Alameda (SF)	Summer	2013	367.38	420.09	500.26	632.43	73.09	84.03	99.75	125.34
C	Alameda (SF)	Summer	2014	367.65	420.75	500.31	633.13	73.16	84.04	99.85	125.58
C	Alameda (SF)	Summer	2015	367.91	421.35	500.37	633.90	73.24	84.08	99.96	125.84
C	Alameda (SF)	Summer	2016	368.14	421.93	500.44	634.66	73.33	84.14	100.07	126.09
C	Alameda (SF)	Summer	2017	368.30	422.46	500.49	635.39	73.39	84.20	100.16	126.35
C	Alameda (SF)	Summer	2018	368.43	422.93	500.51	636.01	73.43	84.28	100.25	126.59
C	Alameda (SF)	Summer	2019	368.55	423.36	500.53	636.55	73.49	84.42	100.34	126.81
C	Alameda (SF)	Summer	2020	368.65	423.76	500.53	637.05	73.60	84.58	100.44	127.03
C	Alameda (SF)	Summer	2021	368.73	424.11	500.53	637.46	73.67	84.75	100.53	127.21
C	Alameda (SF)	Summer	2022	368.76	424.41	500.53	637.82	73.73	84.89	100.62	127.35
C	Alameda (SF)	Summer	2023	368.76	424.66	500.51	638.09	73.77	85.02	100.68	127.52
C	Alameda (SF)	Summer	2024	368.74	424.87	500.49	638.33	73.79	85.14	100.74	127.68
C	Alameda (SF)	Summer	2025	368.73	425.06	500.48	638.54	73.81	85.24	100.79	127.84

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Alameda (SF)	Summer	2026	368.75	425.27	500.46	638.75	73.83	85.34	100.83	127.99
C	Alameda (SF)	Summer	2027	368.77	425.48	500.44	638.94	73.85	85.44	100.86	128.12
C	Alameda (SF)	Summer	2028	368.78	425.70	500.42	639.12	73.86	85.52	100.89	128.25
C	Alameda (SF)	Summer	2029	368.78	425.92	500.39	639.31	73.87	85.61	100.90	128.36
C	Alameda (SF)	Summer	2030	368.78	426.15	500.38	639.50	73.87	85.69	100.92	128.47
C	Alameda (SF)	Summer	2031	368.79	426.39	500.37	639.69	73.88	85.76	100.93	128.58
C	Alameda (SF)	Summer	2032	368.79	426.60	500.36	639.89	73.88	85.84	100.94	128.68
C	Alameda (SF)	Summer	2033	368.80	426.78	500.35	640.08	73.89	85.90	100.95	128.77
C	Alameda (SF)	Summer	2034	368.80	426.95	500.35	640.26	73.89	85.97	100.95	128.86
C	Alameda (SF)	Summer	2035	368.79	427.08	500.34	640.42	73.89	86.02	100.96	128.94
C	Alameda (SF)	Winter	2010	336.52	386.75	460.43	580.64	72.90	84.16	99.41	124.70
C	Alameda (SF)	Winter	2011	336.63	387.17	460.31	581.17	72.95	84.06	99.50	124.89
C	Alameda (SF)	Winter	2012	336.78	387.61	460.22	581.74	73.01	84.04	99.62	125.11
C	Alameda (SF)	Winter	2013	336.96	388.01	460.15	582.35	73.09	84.03	99.75	125.34
C	Alameda (SF)	Winter	2014	337.14	388.40	460.09	582.96	73.16	84.04	99.85	125.58
C	Alameda (SF)	Winter	2015	337.33	388.78	460.05	583.58	73.24	84.08	99.96	125.84
C	Alameda (SF)	Winter	2016	337.51	389.15	460.02	584.16	73.33	84.14	100.07	126.09
C	Alameda (SF)	Winter	2017	337.65	389.50	459.99	584.72	73.39	84.20	100.16	126.35
C	Alameda (SF)	Winter	2018	337.76	389.80	459.98	585.20	73.43	84.28	100.25	126.59
C	Alameda (SF)	Winter	2019	337.87	390.11	459.98	585.63	73.49	84.42	100.34	126.81
C	Alameda (SF)	Winter	2020	337.98	390.40	459.98	586.02	73.60	84.58	100.44	127.03
C	Alameda (SF)	Winter	2021	338.06	390.65	459.98	586.34	73.67	84.75	100.53	127.21
C	Alameda (SF)	Winter	2022	338.09	390.86	459.98	586.61	73.73	84.89	100.62	127.35
C	Alameda (SF)	Winter	2023	338.09	391.02	459.97	586.82	73.77	85.02	100.68	127.52
C	Alameda (SF)	Winter	2024	338.07	391.15	459.96	586.99	73.79	85.14	100.74	127.68
C	Alameda (SF)	Winter	2025	338.07	391.28	459.95	587.17	73.81	85.24	100.79	127.84
C	Alameda (SF)	Winter	2026	338.08	391.42	459.94	587.36	73.83	85.34	100.83	127.99
C	Alameda (SF)	Winter	2027	338.09	391.57	459.93	587.53	73.85	85.44	100.86	128.12
C	Alameda (SF)	Winter	2028	338.10	391.72	459.91	587.71	73.86	85.52	100.89	128.25
C	Alameda (SF)	Winter	2029	338.09	391.87	459.89	587.88	73.87	85.61	100.90	128.36
C	Alameda (SF)	Winter	2030	338.08	392.02	459.87	588.05	73.87	85.69	100.92	128.47
C	Alameda (SF)	Winter	2031	338.08	392.17	459.87	588.23	73.88	85.76	100.93	128.58
C	Alameda (SF)	Winter	2032	338.07	392.33	459.86	588.42	73.88	85.84	100.94	128.68
C	Alameda (SF)	Winter	2033	338.07	392.47	459.85	588.59	73.89	85.90	100.95	128.77
C	Alameda (SF)	Winter	2034	338.07	392.59	459.84	588.74	73.89	85.97	100.95	128.86
C	Alameda (SF)	Winter	2035	338.06	392.70	459.83	588.87	73.89	86.02	100.96	128.94
C	Alpine (GBV)	Annual	2010	319.94	373.91	436.04	546.24	77.24	91.37	100.57	125.68
C	Alpine (GBV)	Annual	2011	319.54	373.51	435.72	546.98	76.26	90.65	100.32	125.51
C	Alpine (GBV)	Annual	2012	319.25	372.89	435.50	547.57	75.15	89.58	100.40	125.56
C	Alpine (GBV)	Annual	2013	319.18	372.57	435.22	548.28	74.57	89.04	99.96	125.68
C	Alpine (GBV)	Annual	2014	319.32	372.32	435.07	548.95	74.52	88.58	100.09	125.82
C	Alpine (GBV)	Annual	2015	319.45	372.11	434.95	549.66	74.47	88.18	100.23	126.00
C	Alpine (GBV)	Annual	2016	319.56	371.52	434.86	550.33	74.44	87.12	100.36	126.21
C	Alpine (GBV)	Annual	2017	319.49	371.33	434.79	550.99	73.94	86.73	100.49	126.44
C	Alpine (GBV)	Annual	2018	319.46	370.85	434.73	551.66	73.66	85.86	100.61	126.58
C	Alpine (GBV)	Annual	2019	319.51	370.58	434.66	552.11	73.60	85.37	100.54	126.79
C	Alpine (GBV)	Annual	2020	319.52	370.53	434.63	552.59	73.65	85.36	100.64	126.94
C	Alpine (GBV)	Annual	2021	319.35	370.39	434.54	552.76	73.53	85.37	100.70	126.88
C	Alpine (GBV)	Annual	2022	319.41	370.29	434.41	553.01	73.61	85.39	100.71	126.98
C	Alpine (GBV)	Annual	2023	319.45	370.13	434.39	553.18	73.67	85.39	100.78	127.17
C	Alpine (GBV)	Annual	2024	319.20	370.08	434.37	553.31	73.50	85.44	100.83	127.34
C	Alpine (GBV)	Annual	2025	319.16	370.11	434.34	553.52	73.49	85.51	100.88	127.53
C	Alpine (GBV)	Annual	2026	319.16	370.24	434.32	553.65	73.52	85.61	100.91	127.67
C	Alpine (GBV)	Annual	2027	319.16	370.37	434.30	553.84	73.53	85.71	100.94	127.83

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Alpine (GBV)	Annual	2028	319.14	370.50	434.23	554.01	73.53	85.80	100.95	127.98
C	Alpine (GBV)	Annual	2029	319.14	370.62	434.21	554.25	73.54	85.89	100.97	128.13
C	Alpine (GBV)	Annual	2030	319.14	370.74	434.16	554.47	73.55	85.96	100.97	128.27
C	Alpine (GBV)	Annual	2031	319.13	370.85	434.14	554.72	73.56	86.04	100.98	128.41
C	Alpine (GBV)	Annual	2032	319.13	370.96	434.12	554.98	73.56	86.10	100.99	128.55
C	Alpine (GBV)	Annual	2033	319.13	371.06	434.10	555.21	73.57	86.17	100.99	128.68
C	Alpine (GBV)	Annual	2034	319.13	371.14	434.09	555.41	73.57	86.23	101.00	128.80
C	Alpine (GBV)	Annual	2035	319.12	371.21	434.06	555.61	73.58	86.27	101.00	128.90
C	Alpine (GBV)	Summer	2010	322.05	375.88	438.84	549.63	77.24	91.37	100.57	125.68
C	Alpine (GBV)	Summer	2011	321.67	375.54	438.54	550.39	76.26	90.65	100.32	125.51
C	Alpine (GBV)	Summer	2012	321.42	374.98	438.32	550.99	75.15	89.58	100.40	125.56
C	Alpine (GBV)	Summer	2013	321.36	374.72	438.06	551.73	74.57	89.04	99.96	125.68
C	Alpine (GBV)	Summer	2014	321.50	374.50	437.93	552.42	74.52	88.58	100.09	125.82
C	Alpine (GBV)	Summer	2015	321.64	374.32	437.81	553.16	74.47	88.18	100.23	126.00
C	Alpine (GBV)	Summer	2016	321.76	373.78	437.73	553.86	74.44	87.12	100.36	126.21
C	Alpine (GBV)	Summer	2017	321.69	373.61	437.66	554.54	73.94	86.73	100.49	126.44
C	Alpine (GBV)	Summer	2018	321.65	373.16	437.61	555.23	73.66	85.86	100.61	126.58
C	Alpine (GBV)	Summer	2019	321.70	372.92	437.55	555.70	73.60	85.37	100.54	126.79
C	Alpine (GBV)	Summer	2020	321.71	372.88	437.52	556.20	73.65	85.36	100.64	126.94
C	Alpine (GBV)	Summer	2021	321.54	372.76	437.44	556.38	73.53	85.37	100.70	126.88
C	Alpine (GBV)	Summer	2022	321.60	372.67	437.31	556.63	73.61	85.39	100.71	126.98
C	Alpine (GBV)	Summer	2023	321.64	372.52	437.29	556.81	73.67	85.39	100.78	127.17
C	Alpine (GBV)	Summer	2024	321.39	372.48	437.27	556.95	73.50	85.44	100.83	127.34
C	Alpine (GBV)	Summer	2025	321.35	372.52	437.24	557.16	73.49	85.51	100.88	127.53
C	Alpine (GBV)	Summer	2026	321.36	372.65	437.22	557.29	73.52	85.61	100.91	127.67
C	Alpine (GBV)	Summer	2027	321.36	372.79	437.20	557.48	73.53	85.71	100.94	127.83
C	Alpine (GBV)	Summer	2028	321.34	372.93	437.12	557.66	73.53	85.80	100.95	127.98
C	Alpine (GBV)	Summer	2029	321.34	373.07	437.11	557.90	73.54	85.89	100.97	128.13
C	Alpine (GBV)	Summer	2030	321.34	373.19	437.06	558.13	73.55	85.96	100.97	128.27
C	Alpine (GBV)	Summer	2031	321.34	373.31	437.04	558.38	73.56	86.04	100.98	128.41
C	Alpine (GBV)	Summer	2032	321.33	373.42	437.02	558.64	73.56	86.10	100.99	128.55
C	Alpine (GBV)	Summer	2033	321.33	373.52	437.00	558.87	73.57	86.17	100.99	128.68
C	Alpine (GBV)	Summer	2034	321.33	373.61	436.99	559.09	73.57	86.23	101.00	128.80
C	Alpine (GBV)	Summer	2035	321.32	373.68	436.96	559.29	73.58	86.27	101.00	128.90
C	Alpine (GBV)	Winter	2010	321.45	375.32	438.05	548.67	77.24	91.37	100.57	125.68
C	Alpine (GBV)	Winter	2011	321.07	374.96	437.74	549.42	76.26	90.65	100.32	125.51
C	Alpine (GBV)	Winter	2012	320.80	374.39	437.52	550.02	75.15	89.58	100.40	125.56
C	Alpine (GBV)	Winter	2013	320.74	374.11	437.26	550.75	74.57	89.04	99.96	125.68
C	Alpine (GBV)	Winter	2014	320.88	373.88	437.12	551.43	74.52	88.58	100.09	125.82
C	Alpine (GBV)	Winter	2015	321.02	373.69	437.00	552.16	74.47	88.18	100.23	126.00
C	Alpine (GBV)	Winter	2016	321.14	373.14	436.91	552.86	74.44	87.12	100.36	126.21
C	Alpine (GBV)	Winter	2017	321.06	372.96	436.85	553.53	73.94	86.73	100.49	126.44
C	Alpine (GBV)	Winter	2018	321.03	372.51	436.79	554.22	73.66	85.86	100.61	126.58
C	Alpine (GBV)	Winter	2019	321.08	372.25	436.73	554.68	73.60	85.37	100.54	126.79
C	Alpine (GBV)	Winter	2020	321.09	372.21	436.70	555.17	73.65	85.36	100.64	126.94
C	Alpine (GBV)	Winter	2021	320.92	372.08	436.62	555.35	73.53	85.37	100.70	126.88
C	Alpine (GBV)	Winter	2022	320.98	371.99	436.49	555.60	73.61	85.39	100.71	126.98
C	Alpine (GBV)	Winter	2023	321.02	371.84	436.47	555.78	73.67	85.39	100.78	127.17
C	Alpine (GBV)	Winter	2024	320.77	371.80	436.44	555.92	73.50	85.44	100.83	127.34
C	Alpine (GBV)	Winter	2025	320.73	371.84	436.42	556.12	73.49	85.51	100.88	127.53
C	Alpine (GBV)	Winter	2026	320.74	371.97	436.40	556.26	73.52	85.61	100.91	127.67
C	Alpine (GBV)	Winter	2027	320.74	372.11	436.38	556.45	73.53	85.71	100.94	127.83
C	Alpine (GBV)	Winter	2028	320.71	372.24	436.30	556.62	73.53	85.80	100.95	127.98
C	Alpine (GBV)	Winter	2029	320.71	372.37	436.29	556.87	73.54	85.89	100.97	128.13

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Alpine (GBV)	Winter	2030	320.71	372.49	436.23	557.09	73.55	85.96	100.97	128.27
C	Alpine (GBV)	Winter	2031	320.71	372.61	436.21	557.34	73.56	86.04	100.98	128.41
C	Alpine (GBV)	Winter	2032	320.71	372.72	436.20	557.60	73.56	86.10	100.99	128.55
C	Alpine (GBV)	Winter	2033	320.71	372.82	436.18	557.83	73.57	86.17	100.99	128.68
C	Alpine (GBV)	Winter	2034	320.70	372.91	436.17	558.05	73.57	86.23	101.00	128.80
C	Alpine (GBV)	Winter	2035	320.70	372.98	436.14	558.25	73.58	86.27	101.00	128.90
C	Amador (MC)	Annual	2010	304.65	351.36	416.56	520.77	74.42	88.71	101.28	124.30
C	Amador (MC)	Annual	2011	304.66	351.60	416.18	521.37	74.22	87.90	101.12	124.48
C	Amador (MC)	Annual	2012	304.71	351.83	415.89	522.08	74.04	87.30	101.03	124.70
C	Amador (MC)	Annual	2013	304.79	351.99	415.66	522.86	73.92	86.76	100.95	124.94
C	Amador (MC)	Annual	2014	304.86	352.15	415.48	523.60	73.78	86.37	100.90	125.21
C	Amador (MC)	Annual	2015	304.98	352.29	415.35	524.39	73.76	85.97	100.78	125.49
C	Amador (MC)	Annual	2016	305.08	352.44	415.24	525.15	73.74	85.71	100.76	125.78
C	Amador (MC)	Annual	2017	305.13	352.54	415.14	525.85	73.67	85.39	100.65	126.08
C	Amador (MC)	Annual	2018	305.17	352.64	415.05	526.46	73.63	85.21	100.62	126.36
C	Amador (MC)	Annual	2019	305.20	352.73	414.99	526.98	73.61	85.07	100.64	126.62
C	Amador (MC)	Annual	2020	305.25	352.84	414.93	527.43	73.70	85.10	100.70	126.87
C	Amador (MC)	Annual	2021	305.27	352.92	414.87	527.78	73.76	85.17	100.76	127.07
C	Amador (MC)	Annual	2022	305.25	352.98	414.81	528.07	73.79	85.24	100.80	127.21
C	Amador (MC)	Annual	2023	305.17	353.01	414.75	528.29	73.79	85.29	100.83	127.40
C	Amador (MC)	Annual	2024	305.08	353.05	414.70	528.47	73.77	85.35	100.86	127.58
C	Amador (MC)	Annual	2025	305.03	353.13	414.66	528.63	73.78	85.43	100.90	127.75
C	Amador (MC)	Annual	2026	305.04	353.24	414.62	528.79	73.80	85.53	100.92	127.91
C	Amador (MC)	Annual	2027	305.05	353.36	414.57	528.95	73.81	85.62	100.94	128.05
C	Amador (MC)	Annual	2028	305.05	353.48	414.54	529.12	73.82	85.70	100.96	128.19
C	Amador (MC)	Annual	2029	305.04	353.60	414.51	529.29	73.83	85.78	100.96	128.32
C	Amador (MC)	Annual	2030	305.03	353.72	414.47	529.46	73.83	85.85	100.96	128.44
C	Amador (MC)	Annual	2031	305.02	353.84	414.44	529.67	73.83	85.93	100.97	128.56
C	Amador (MC)	Annual	2032	305.02	353.95	414.42	529.88	73.84	85.99	100.97	128.68
C	Amador (MC)	Annual	2033	305.01	354.05	414.40	530.07	73.84	86.06	100.98	128.78
C	Amador (MC)	Annual	2034	305.01	354.14	414.39	530.24	73.85	86.11	100.98	128.88
C	Amador (MC)	Annual	2035	305.01	354.21	414.37	530.39	73.85	86.16	100.98	128.97
C	Amador (MC)	Summer	2010	335.39	381.81	456.97	570.78	74.42	88.71	101.28	124.30
C	Amador (MC)	Summer	2011	335.69	383.05	456.90	571.49	74.22	87.90	101.12	124.48
C	Amador (MC)	Summer	2012	335.97	384.03	456.85	572.39	74.04	87.30	101.03	124.70
C	Amador (MC)	Summer	2013	336.23	384.81	456.85	573.45	73.92	86.76	100.95	124.94
C	Amador (MC)	Summer	2014	336.43	385.43	456.87	574.47	73.78	86.37	100.90	125.21
C	Amador (MC)	Summer	2015	336.65	385.97	456.94	575.58	73.76	85.97	100.78	125.49
C	Amador (MC)	Summer	2016	336.82	386.42	456.98	576.67	73.74	85.71	100.76	125.78
C	Amador (MC)	Summer	2017	336.90	386.79	457.00	577.65	73.67	85.39	100.65	126.08
C	Amador (MC)	Summer	2018	336.95	387.08	456.98	578.50	73.63	85.21	100.62	126.36
C	Amador (MC)	Summer	2019	336.99	387.35	456.95	579.23	73.61	85.07	100.64	126.62
C	Amador (MC)	Summer	2020	337.02	387.58	456.90	579.85	73.70	85.10	100.70	126.87
C	Amador (MC)	Summer	2021	337.03	387.78	456.85	580.34	73.76	85.17	100.76	127.07
C	Amador (MC)	Summer	2022	337.01	387.96	456.79	580.75	73.79	85.24	100.80	127.21
C	Amador (MC)	Summer	2023	336.93	388.10	456.74	581.05	73.79	85.29	100.83	127.40
C	Amador (MC)	Summer	2024	336.85	388.24	456.69	581.30	73.77	85.35	100.86	127.58
C	Amador (MC)	Summer	2025	336.80	388.38	456.65	581.51	73.78	85.43	100.90	127.75
C	Amador (MC)	Summer	2026	336.83	388.54	456.62	581.67	73.80	85.53	100.92	127.91
C	Amador (MC)	Summer	2027	336.85	388.70	456.59	581.84	73.81	85.62	100.94	128.05
C	Amador (MC)	Summer	2028	336.86	388.88	456.57	582.04	73.82	85.70	100.96	128.19
C	Amador (MC)	Summer	2029	336.87	389.06	456.55	582.24	73.83	85.78	100.96	128.32
C	Amador (MC)	Summer	2030	336.87	389.25	456.52	582.44	73.83	85.85	100.96	128.44
C	Amador (MC)	Summer	2031	336.87	389.46	456.50	582.71	73.83	85.93	100.97	128.56

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Amador (MC)	Summer	2032	336.87	389.62	456.48	582.98	73.84	85.99	100.97	128.68
C	Amador (MC)	Summer	2033	336.86	389.77	456.47	583.23	73.84	86.06	100.98	128.78
C	Amador (MC)	Summer	2034	336.85	389.90	456.45	583.45	73.85	86.11	100.98	128.88
C	Amador (MC)	Summer	2035	336.85	389.98	456.44	583.66	73.85	86.16	100.98	128.97
C	Amador (MC)	Winter	2010	295.29	342.08	404.24	505.53	74.42	88.71	101.28	124.30
C	Amador (MC)	Winter	2011	295.21	342.02	403.78	506.10	74.22	87.90	101.12	124.48
C	Amador (MC)	Winter	2012	295.18	342.01	403.41	506.75	74.04	87.30	101.03	124.70
C	Amador (MC)	Winter	2013	295.22	341.99	403.11	507.45	73.92	86.76	100.95	124.94
C	Amador (MC)	Winter	2014	295.24	342.01	402.87	508.11	73.78	86.37	100.90	125.21
C	Amador (MC)	Winter	2015	295.33	342.02	402.67	508.79	73.76	85.97	100.78	125.49
C	Amador (MC)	Winter	2016	295.41	342.08	402.52	509.45	73.74	85.71	100.76	125.78
C	Amador (MC)	Winter	2017	295.45	342.10	402.38	510.06	73.67	85.39	100.65	126.08
C	Amador (MC)	Winter	2018	295.49	342.14	402.28	510.60	73.63	85.21	100.62	126.36
C	Amador (MC)	Winter	2019	295.52	342.18	402.21	511.06	73.61	85.07	100.64	126.62
C	Amador (MC)	Winter	2020	295.57	342.25	402.15	511.46	73.70	85.10	100.70	126.87
C	Amador (MC)	Winter	2021	295.59	342.29	402.08	511.77	73.76	85.17	100.76	127.07
C	Amador (MC)	Winter	2022	295.58	342.32	402.02	512.02	73.79	85.24	100.80	127.21
C	Amador (MC)	Winter	2023	295.49	342.32	401.95	512.21	73.79	85.29	100.83	127.40
C	Amador (MC)	Winter	2024	295.40	342.33	401.90	512.37	73.77	85.35	100.86	127.58
C	Amador (MC)	Winter	2025	295.35	342.39	401.87	512.52	73.78	85.43	100.90	127.75
C	Amador (MC)	Winter	2026	295.36	342.49	401.82	512.68	73.80	85.53	100.92	127.91
C	Amador (MC)	Winter	2027	295.36	342.59	401.77	512.84	73.81	85.62	100.94	128.05
C	Amador (MC)	Winter	2028	295.35	342.69	401.74	513.00	73.82	85.70	100.96	128.19
C	Amador (MC)	Winter	2029	295.34	342.79	401.70	513.16	73.83	85.78	100.96	128.32
C	Amador (MC)	Winter	2030	295.32	342.89	401.65	513.32	73.83	85.85	100.96	128.44
C	Amador (MC)	Winter	2031	295.32	342.99	401.63	513.51	73.83	85.93	100.97	128.56
C	Amador (MC)	Winter	2032	295.32	343.09	401.61	513.70	73.84	85.99	100.97	128.68
C	Amador (MC)	Winter	2033	295.31	343.17	401.59	513.88	73.84	86.06	100.98	128.78
C	Amador (MC)	Winter	2034	295.31	343.24	401.57	514.03	73.85	86.11	100.98	128.88
C	Amador (MC)	Winter	2035	295.30	343.31	401.56	514.17	73.85	86.16	100.98	128.97
C	Butte (SV)	Annual	2010	339.87	396.33	466.79	582.59	73.74	93.40	101.05	125.37
C	Butte (SV)	Annual	2011	340.16	396.11	466.41	583.82	73.64	91.64	100.92	125.50
C	Butte (SV)	Annual	2012	340.27	395.85	465.90	584.74	73.58	90.38	100.87	125.67
C	Butte (SV)	Annual	2013	340.39	395.57	465.50	585.71	73.53	89.20	100.81	125.88
C	Butte (SV)	Annual	2014	340.47	395.32	465.20	586.62	73.46	88.16	100.77	126.08
C	Butte (SV)	Annual	2015	340.60	395.14	464.96	587.52	73.45	87.30	100.75	126.32
C	Butte (SV)	Annual	2016	342.35	396.92	466.99	591.13	73.49	86.64	100.74	126.57
C	Butte (SV)	Annual	2017	342.42	396.78	466.81	591.87	73.48	85.98	100.71	126.82
C	Butte (SV)	Annual	2018	342.44	396.68	466.66	592.50	73.44	85.49	100.70	127.05
C	Butte (SV)	Annual	2019	342.48	396.71	466.54	593.04	73.45	85.31	100.70	127.27
C	Butte (SV)	Annual	2020	342.53	396.78	466.44	593.51	73.54	85.30	100.76	127.47
C	Butte (SV)	Annual	2021	343.10	397.55	467.11	594.81	73.60	85.41	100.82	127.57
C	Butte (SV)	Annual	2022	343.10	397.67	467.03	595.07	73.64	85.50	100.87	127.65
C	Butte (SV)	Annual	2023	343.08	397.75	466.95	595.27	73.67	85.58	100.90	127.82
C	Butte (SV)	Annual	2024	343.02	397.84	466.88	595.42	73.68	85.66	100.93	127.97
C	Butte (SV)	Annual	2025	343.01	397.92	466.82	595.60	73.70	85.73	100.96	128.12
C	Butte (SV)	Annual	2026	343.02	398.03	466.75	595.77	73.72	85.80	100.97	128.26
C	Butte (SV)	Annual	2027	343.02	398.12	466.69	595.94	73.73	85.86	100.98	128.39
C	Butte (SV)	Annual	2028	343.02	398.22	466.63	596.11	73.74	85.92	100.99	128.51
C	Butte (SV)	Annual	2029	343.02	398.31	466.55	596.28	73.74	85.97	100.99	128.62
C	Butte (SV)	Annual	2030	343.01	398.40	466.48	596.45	73.75	86.02	100.98	128.72
C	Butte (SV)	Annual	2031	343.01	398.49	466.45	596.62	73.75	86.07	100.98	128.82
C	Butte (SV)	Annual	2032	343.01	398.57	466.42	596.79	73.76	86.12	100.99	128.91
C	Butte (SV)	Annual	2033	343.00	398.64	466.40	596.95	73.76	86.15	100.99	128.99

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Butte (SV)	Annual	2034	343.00	398.69	466.38	597.09	73.76	86.19	100.99	129.06
C	Butte (SV)	Annual	2035	342.99	398.74	466.36	597.22	73.77	86.22	100.99	129.13
C	Butte (SV)	Summer	2010	378.25	435.25	516.75	645.70	73.74	93.40	101.05	125.37
C	Butte (SV)	Summer	2011	379.01	436.21	517.19	647.27	73.64	91.64	100.92	125.50
C	Butte (SV)	Summer	2012	379.48	436.79	517.26	648.57	73.58	90.38	100.87	125.67
C	Butte (SV)	Summer	2013	379.86	437.26	517.34	649.98	73.53	89.20	100.81	125.88
C	Butte (SV)	Summer	2014	380.14	437.60	517.39	651.33	73.46	88.16	100.77	126.08
C	Butte (SV)	Summer	2015	380.40	437.90	517.40	652.65	73.45	87.30	100.75	126.32
C	Butte (SV)	Summer	2016	382.44	440.27	519.84	656.95	73.49	86.64	100.74	126.57
C	Butte (SV)	Summer	2017	382.54	440.50	519.76	658.01	73.48	85.98	100.71	126.82
C	Butte (SV)	Summer	2018	382.56	440.67	519.63	658.88	73.44	85.49	100.70	127.05
C	Butte (SV)	Summer	2019	382.59	440.87	519.51	659.62	73.45	85.31	100.70	127.27
C	Butte (SV)	Summer	2020	382.63	441.06	519.39	660.26	73.54	85.30	100.76	127.47
C	Butte (SV)	Summer	2021	383.24	442.01	520.14	661.82	73.60	85.41	100.82	127.57
C	Butte (SV)	Summer	2022	383.23	442.21	520.05	662.21	73.64	85.50	100.87	127.65
C	Butte (SV)	Summer	2023	383.21	442.39	519.98	662.50	73.67	85.58	100.90	127.82
C	Butte (SV)	Summer	2024	383.15	442.57	519.92	662.70	73.68	85.66	100.93	127.97
C	Butte (SV)	Summer	2025	383.13	442.73	519.88	662.89	73.70	85.73	100.96	128.12
C	Butte (SV)	Summer	2026	383.15	442.89	519.81	663.05	73.72	85.80	100.97	128.26
C	Butte (SV)	Summer	2027	383.17	443.04	519.76	663.21	73.73	85.86	100.98	128.39
C	Butte (SV)	Summer	2028	383.19	443.19	519.72	663.40	73.74	85.92	100.99	128.51
C	Butte (SV)	Summer	2029	383.21	443.35	519.67	663.59	73.74	85.97	100.99	128.62
C	Butte (SV)	Summer	2030	383.22	443.50	519.63	663.79	73.75	86.02	100.98	128.72
C	Butte (SV)	Summer	2031	383.22	443.64	519.62	663.97	73.75	86.07	100.98	128.82
C	Butte (SV)	Summer	2032	383.22	443.74	519.61	664.16	73.76	86.12	100.99	128.91
C	Butte (SV)	Summer	2033	383.22	443.83	519.60	664.35	73.76	86.15	100.99	128.99
C	Butte (SV)	Summer	2034	383.22	443.91	519.59	664.54	73.76	86.19	100.99	129.06
C	Butte (SV)	Summer	2035	383.21	443.96	519.58	664.71	73.77	86.22	100.99	129.13
C	Butte (SV)	Winter	2010	328.68	384.98	452.21	564.18	73.74	93.40	101.05	125.37
C	Butte (SV)	Winter	2011	328.82	384.41	451.61	565.32	73.64	91.64	100.92	125.50
C	Butte (SV)	Winter	2012	328.84	383.90	450.92	566.13	73.58	90.38	100.87	125.67
C	Butte (SV)	Winter	2013	328.87	383.41	450.39	566.96	73.53	89.20	100.81	125.88
C	Butte (SV)	Winter	2014	328.90	382.99	449.98	567.75	73.46	88.16	100.77	126.08
C	Butte (SV)	Winter	2015	328.99	382.67	449.66	568.52	73.45	87.30	100.75	126.32
C	Butte (SV)	Winter	2016	330.67	384.27	451.57	571.94	73.49	86.64	100.74	126.57
C	Butte (SV)	Winter	2017	330.72	384.03	451.37	572.58	73.48	85.98	100.71	126.82
C	Butte (SV)	Winter	2018	330.74	383.86	451.21	573.14	73.44	85.49	100.70	127.05
C	Butte (SV)	Winter	2019	330.78	383.84	451.09	573.62	73.45	85.31	100.70	127.27
C	Butte (SV)	Winter	2020	330.84	383.86	450.99	574.04	73.54	85.30	100.76	127.47
C	Butte (SV)	Winter	2021	331.40	384.59	451.65	575.26	73.60	85.41	100.82	127.57
C	Butte (SV)	Winter	2022	331.39	384.68	451.56	575.49	73.64	85.50	100.87	127.65
C	Butte (SV)	Winter	2023	331.38	384.73	451.48	575.67	73.67	85.58	100.90	127.82
C	Butte (SV)	Winter	2024	331.32	384.80	451.41	575.80	73.68	85.66	100.93	127.97
C	Butte (SV)	Winter	2025	331.30	384.86	451.35	575.97	73.70	85.73	100.96	128.12
C	Butte (SV)	Winter	2026	331.31	384.94	451.28	576.14	73.72	85.80	100.97	128.26
C	Butte (SV)	Winter	2027	331.31	385.02	451.21	576.32	73.73	85.86	100.98	128.39
C	Butte (SV)	Winter	2028	331.31	385.10	451.14	576.48	73.74	85.92	100.99	128.51
C	Butte (SV)	Winter	2029	331.30	385.18	451.06	576.65	73.74	85.97	100.99	128.62
C	Butte (SV)	Winter	2030	331.28	385.25	450.98	576.81	73.75	86.02	100.98	128.72
C	Butte (SV)	Winter	2031	331.28	385.33	450.94	576.98	73.75	86.07	100.98	128.82
C	Butte (SV)	Winter	2032	331.28	385.40	450.91	577.14	73.76	86.12	100.99	128.91
C	Butte (SV)	Winter	2033	331.27	385.45	450.88	577.29	73.76	86.15	100.99	128.99
C	Butte (SV)	Winter	2034	331.27	385.51	450.86	577.42	73.76	86.19	100.99	129.06
C	Butte (SV)	Winter	2035	331.26	385.55	450.84	577.54	73.77	86.22	100.99	129.13

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Calaveras (MC)	Annual	2010	339.15	393.21	464.59	580.79	74.52	89.63	101.49	124.52
C	Calaveras (MC)	Annual	2011	339.17	393.31	464.13	581.44	74.31	88.76	101.30	124.68
C	Calaveras (MC)	Annual	2012	339.22	393.39	463.78	582.21	74.10	88.01	101.21	124.87
C	Calaveras (MC)	Annual	2013	339.30	393.43	463.49	583.06	73.93	87.36	101.13	125.10
C	Calaveras (MC)	Annual	2014	339.36	393.46	463.27	583.88	73.74	86.82	101.00	125.34
C	Calaveras (MC)	Annual	2015	339.48	393.52	463.10	584.75	73.70	86.38	100.93	125.59
C	Calaveras (MC)	Annual	2016	339.59	393.59	462.96	585.57	73.69	86.07	100.88	125.88
C	Calaveras (MC)	Annual	2017	339.64	393.63	462.83	586.35	73.61	85.70	100.81	126.15
C	Calaveras (MC)	Annual	2018	339.66	393.65	462.73	587.01	73.51	85.38	100.75	126.42
C	Calaveras (MC)	Annual	2019	339.69	393.73	462.65	587.57	73.48	85.28	100.71	126.69
C	Calaveras (MC)	Annual	2020	339.72	393.81	462.58	588.07	73.55	85.28	100.76	126.92
C	Calaveras (MC)	Annual	2021	339.70	393.86	462.51	588.43	73.59	85.33	100.81	127.08
C	Calaveras (MC)	Annual	2022	339.67	393.90	462.43	588.75	73.61	85.38	100.85	127.26
C	Calaveras (MC)	Annual	2023	339.61	393.93	462.36	588.97	73.61	85.43	100.87	127.44
C	Calaveras (MC)	Annual	2024	339.52	393.92	462.29	589.14	73.58	85.45	100.89	127.61
C	Calaveras (MC)	Annual	2025	339.50	393.98	462.24	589.30	73.59	85.52	100.92	127.77
C	Calaveras (MC)	Annual	2026	339.51	394.11	462.19	589.48	73.61	85.62	100.94	127.93
C	Calaveras (MC)	Annual	2027	339.51	394.23	462.13	589.67	73.62	85.70	100.96	128.08
C	Calaveras (MC)	Annual	2028	339.51	394.36	462.10	589.86	73.63	85.78	100.97	128.21
C	Calaveras (MC)	Annual	2029	339.50	394.48	462.05	590.05	73.64	85.86	100.97	128.34
C	Calaveras (MC)	Annual	2030	339.49	394.60	462.00	590.25	73.64	85.93	100.97	128.46
C	Calaveras (MC)	Annual	2031	339.49	394.71	461.98	590.48	73.65	86.00	100.98	128.58
C	Calaveras (MC)	Annual	2032	339.49	394.82	461.96	590.71	73.65	86.06	100.98	128.70
C	Calaveras (MC)	Annual	2033	339.49	394.90	461.94	590.91	73.65	86.12	100.98	128.81
C	Calaveras (MC)	Annual	2034	339.48	394.98	461.92	591.10	73.66	86.17	100.99	128.90
C	Calaveras (MC)	Annual	2035	339.48	395.05	461.91	591.26	73.66	86.21	100.99	128.99
C	Calaveras (MC)	Summer	2010	371.79	425.53	507.37	633.67	74.52	89.63	101.49	124.52
C	Calaveras (MC)	Summer	2011	372.10	426.67	507.24	634.43	74.31	88.76	101.30	124.68
C	Calaveras (MC)	Summer	2012	372.38	427.56	507.15	635.42	74.10	88.01	101.21	124.87
C	Calaveras (MC)	Summer	2013	372.63	428.25	507.10	636.56	73.93	87.36	101.13	125.10
C	Calaveras (MC)	Summer	2014	372.82	428.79	507.12	637.70	73.74	86.82	101.00	125.34
C	Calaveras (MC)	Summer	2015	373.03	429.26	507.15	638.94	73.70	86.38	100.93	125.59
C	Calaveras (MC)	Summer	2016	373.20	429.64	507.18	640.12	73.69	86.07	100.88	125.88
C	Calaveras (MC)	Summer	2017	373.29	429.96	507.18	641.21	73.61	85.70	100.81	126.15
C	Calaveras (MC)	Summer	2018	373.31	430.20	507.15	642.13	73.51	85.38	100.75	126.42
C	Calaveras (MC)	Summer	2019	373.34	430.44	507.12	642.91	73.48	85.28	100.71	126.69
C	Calaveras (MC)	Summer	2020	373.36	430.67	507.07	643.60	73.55	85.28	100.76	126.92
C	Calaveras (MC)	Summer	2021	373.33	430.84	507.00	644.13	73.59	85.33	100.81	127.08
C	Calaveras (MC)	Summer	2022	373.30	431.01	506.94	644.57	73.61	85.38	100.85	127.26
C	Calaveras (MC)	Summer	2023	373.24	431.15	506.88	644.89	73.61	85.43	100.87	127.44
C	Calaveras (MC)	Summer	2024	373.18	431.27	506.81	645.12	73.58	85.45	100.89	127.61
C	Calaveras (MC)	Summer	2025	373.16	431.40	506.76	645.32	73.59	85.52	100.92	127.77
C	Calaveras (MC)	Summer	2026	373.18	431.61	506.71	645.52	73.61	85.62	100.94	127.93
C	Calaveras (MC)	Summer	2027	373.19	431.81	506.66	645.72	73.62	85.70	100.96	128.08
C	Calaveras (MC)	Summer	2028	373.20	432.01	506.63	645.94	73.63	85.78	100.97	128.21
C	Calaveras (MC)	Summer	2029	373.21	432.20	506.60	646.17	73.64	85.86	100.97	128.34
C	Calaveras (MC)	Summer	2030	373.22	432.39	506.57	646.41	73.64	85.93	100.97	128.46
C	Calaveras (MC)	Summer	2031	373.22	432.56	506.56	646.71	73.65	86.00	100.98	128.58
C	Calaveras (MC)	Summer	2032	373.21	432.71	506.56	646.99	73.65	86.06	100.98	128.70
C	Calaveras (MC)	Summer	2033	373.21	432.83	506.55	647.26	73.65	86.12	100.98	128.81
C	Calaveras (MC)	Summer	2034	373.20	432.93	506.54	647.51	73.66	86.17	100.99	128.90
C	Calaveras (MC)	Summer	2035	373.19	433.00	506.53	647.73	73.66	86.21	100.99	128.99
C	Calaveras (MC)	Winter	2010	329.78	383.93	452.30	565.59	74.52	89.63	101.49	124.52
C	Calaveras (MC)	Winter	2011	329.72	383.73	451.75	566.21	74.31	88.76	101.30	124.68

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Calaveras (MC)	Winter	2012	329.69	383.57	451.31	566.92	74.10	88.01	101.21	124.87
C	Calaveras (MC)	Winter	2013	329.72	383.42	450.96	567.68	73.93	87.36	101.13	125.10
C	Calaveras (MC)	Winter	2014	329.75	383.31	450.67	568.42	73.74	86.82	101.00	125.34
C	Calaveras (MC)	Winter	2015	329.84	383.25	450.44	569.19	73.70	86.38	100.93	125.59
C	Calaveras (MC)	Winter	2016	329.93	383.24	450.25	569.90	73.69	86.07	100.88	125.88
C	Calaveras (MC)	Winter	2017	329.98	383.20	450.09	570.59	73.61	85.70	100.81	126.15
C	Calaveras (MC)	Winter	2018	329.99	383.15	449.97	571.17	73.51	85.38	100.75	126.42
C	Calaveras (MC)	Winter	2019	330.02	383.18	449.87	571.67	73.48	85.28	100.71	126.69
C	Calaveras (MC)	Winter	2020	330.05	383.22	449.80	572.12	73.55	85.28	100.76	126.92
C	Calaveras (MC)	Winter	2021	330.04	383.24	449.72	572.43	73.59	85.33	100.81	127.08
C	Calaveras (MC)	Winter	2022	330.01	383.24	449.64	572.72	73.61	85.38	100.85	127.26
C	Calaveras (MC)	Winter	2023	329.94	383.24	449.56	572.90	73.61	85.43	100.87	127.44
C	Calaveras (MC)	Winter	2024	329.85	383.19	449.49	573.05	73.58	85.45	100.89	127.61
C	Calaveras (MC)	Winter	2025	329.83	383.23	449.45	573.20	73.59	85.52	100.92	127.77
C	Calaveras (MC)	Winter	2026	329.84	383.34	449.40	573.38	73.61	85.62	100.94	127.93
C	Calaveras (MC)	Winter	2027	329.84	383.44	449.34	573.56	73.62	85.70	100.96	128.08
C	Calaveras (MC)	Winter	2028	329.83	383.54	449.30	573.75	73.63	85.78	100.97	128.21
C	Calaveras (MC)	Winter	2029	329.82	383.64	449.25	573.93	73.64	85.86	100.97	128.34
C	Calaveras (MC)	Winter	2030	329.81	383.74	449.19	574.11	73.64	85.93	100.97	128.46
C	Calaveras (MC)	Winter	2031	329.80	383.84	449.17	574.32	73.65	86.00	100.98	128.58
C	Calaveras (MC)	Winter	2032	329.80	383.93	449.14	574.54	73.65	86.06	100.98	128.70
C	Calaveras (MC)	Winter	2033	329.80	384.01	449.12	574.73	73.65	86.12	100.98	128.81
C	Calaveras (MC)	Winter	2034	329.80	384.08	449.11	574.89	73.66	86.17	100.99	128.90
C	Calaveras (MC)	Winter	2035	329.79	384.14	449.09	575.04	73.66	86.21	100.99	128.99
C	Colusa (SV)	Annual	2010	336.15	393.71	462.59	577.05	73.02	94.44	100.85	124.61
C	Colusa (SV)	Annual	2011	336.30	393.20	461.94	577.64	73.01	92.76	100.79	124.78
C	Colusa (SV)	Annual	2012	336.46	392.86	461.43	578.32	73.01	91.49	100.76	124.99
C	Colusa (SV)	Annual	2013	336.61	392.53	461.04	579.07	73.01	90.33	100.78	125.24
C	Colusa (SV)	Annual	2014	336.76	392.14	460.74	579.85	73.01	89.10	100.78	125.48
C	Colusa (SV)	Annual	2015	336.94	391.90	460.48	580.66	73.07	88.20	100.70	125.75
C	Colusa (SV)	Annual	2016	337.08	391.55	460.28	581.44	73.11	87.13	100.69	126.03
C	Colusa (SV)	Annual	2017	337.18	391.40	460.11	582.19	73.11	86.50	100.69	126.31
C	Colusa (SV)	Annual	2018	337.27	391.20	459.97	582.84	73.14	85.83	100.67	126.58
C	Colusa (SV)	Annual	2019	337.32	391.11	459.85	583.42	73.14	85.43	100.69	126.82
C	Colusa (SV)	Annual	2020	337.37	391.06	459.75	583.92	73.23	85.29	100.77	127.05
C	Colusa (SV)	Annual	2021	337.43	391.13	459.66	584.31	73.30	85.37	100.83	127.21
C	Colusa (SV)	Annual	2022	337.40	391.19	459.57	584.63	73.33	85.43	100.88	127.34
C	Colusa (SV)	Annual	2023	337.39	391.29	459.49	584.89	73.36	85.52	100.91	127.52
C	Colusa (SV)	Annual	2024	337.37	391.34	459.41	585.10	73.37	85.59	100.94	127.69
C	Colusa (SV)	Annual	2025	337.36	391.40	459.36	585.31	73.39	85.65	100.97	127.86
C	Colusa (SV)	Annual	2026	337.37	391.51	459.27	585.53	73.41	85.73	100.99	128.02
C	Colusa (SV)	Annual	2027	337.38	391.61	459.21	585.75	73.42	85.79	101.00	128.16
C	Colusa (SV)	Annual	2028	337.39	391.73	459.15	585.97	73.43	85.86	101.01	128.30
C	Colusa (SV)	Annual	2029	337.40	391.84	459.07	586.18	73.44	85.92	101.01	128.42
C	Colusa (SV)	Annual	2030	337.38	391.95	458.99	586.40	73.44	85.97	101.00	128.54
C	Colusa (SV)	Annual	2031	337.38	392.05	458.95	586.61	73.45	86.03	101.00	128.66
C	Colusa (SV)	Annual	2032	337.38	392.15	458.92	586.83	73.45	86.08	101.00	128.77
C	Colusa (SV)	Annual	2033	337.38	392.24	458.89	587.03	73.46	86.13	101.01	128.87
C	Colusa (SV)	Annual	2034	337.37	392.31	458.85	587.21	73.46	86.17	101.01	128.96
C	Colusa (SV)	Annual	2035	337.36	392.37	458.83	587.37	73.47	86.21	101.01	129.05
C	Colusa (SV)	Summer	2010	369.11	427.03	505.43	632.25	73.02	94.44	100.85	124.61
C	Colusa (SV)	Summer	2011	369.53	427.36	505.34	632.77	73.01	92.76	100.79	124.78
C	Colusa (SV)	Summer	2012	369.90	427.67	505.27	633.46	73.01	91.49	100.76	124.99
C	Colusa (SV)	Summer	2013	370.21	427.88	505.20	634.32	73.01	90.33	100.78	125.24

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Colusa (SV)	Summer	2014	370.47	427.99	505.17	635.26	73.01	89.10	100.78	125.48
C	Colusa (SV)	Summer	2015	370.74	428.12	505.15	636.30	73.07	88.20	100.70	125.75
C	Colusa (SV)	Summer	2016	370.94	428.19	505.10	637.33	73.11	87.13	100.69	126.03
C	Colusa (SV)	Summer	2017	371.07	428.29	505.00	638.32	73.11	86.50	100.69	126.31
C	Colusa (SV)	Summer	2018	371.17	428.34	504.89	639.18	73.14	85.83	100.67	126.58
C	Colusa (SV)	Summer	2019	371.22	428.46	504.77	639.93	73.14	85.43	100.69	126.82
C	Colusa (SV)	Summer	2020	371.26	428.58	504.65	640.57	73.23	85.29	100.77	127.05
C	Colusa (SV)	Summer	2021	371.31	428.73	504.55	641.07	73.30	85.37	100.83	127.21
C	Colusa (SV)	Summer	2022	371.28	428.87	504.46	641.49	73.33	85.43	100.88	127.34
C	Colusa (SV)	Summer	2023	371.27	429.02	504.39	641.81	73.36	85.52	100.91	127.52
C	Colusa (SV)	Summer	2024	371.27	429.15	504.32	642.06	73.37	85.59	100.94	127.69
C	Colusa (SV)	Summer	2025	371.27	429.27	504.27	642.28	73.39	85.65	100.97	127.86
C	Colusa (SV)	Summer	2026	371.29	429.45	504.21	642.53	73.41	85.73	100.99	128.02
C	Colusa (SV)	Summer	2027	371.32	429.59	504.17	642.78	73.42	85.79	101.00	128.16
C	Colusa (SV)	Summer	2028	371.34	429.79	504.14	643.02	73.43	85.86	101.01	128.30
C	Colusa (SV)	Summer	2029	371.35	429.96	504.09	643.27	73.44	85.92	101.01	128.42
C	Colusa (SV)	Summer	2030	371.36	430.13	504.04	643.51	73.44	85.97	101.00	128.54
C	Colusa (SV)	Summer	2031	371.36	430.29	504.05	643.74	73.45	86.03	101.00	128.66
C	Colusa (SV)	Summer	2032	371.36	430.43	504.04	643.98	73.45	86.08	101.00	128.77
C	Colusa (SV)	Summer	2033	371.36	430.55	504.04	644.21	73.46	86.13	101.01	128.87
C	Colusa (SV)	Summer	2034	371.36	430.64	504.02	644.42	73.46	86.17	101.01	128.96
C	Colusa (SV)	Summer	2035	371.35	430.71	504.00	644.62	73.47	86.21	101.01	129.05
C	Colusa (SV)	Winter	2010	325.06	382.50	448.17	558.47	73.02	94.44	100.85	124.61
C	Colusa (SV)	Winter	2011	325.11	381.70	447.33	559.09	73.01	92.76	100.79	124.78
C	Colusa (SV)	Winter	2012	325.20	381.15	446.68	559.76	73.01	91.49	100.76	124.99
C	Colusa (SV)	Winter	2013	325.30	380.64	446.18	560.48	73.01	90.33	100.78	125.24
C	Colusa (SV)	Winter	2014	325.41	380.08	445.78	561.20	73.01	89.10	100.78	125.48
C	Colusa (SV)	Winter	2015	325.57	379.70	445.45	561.93	73.07	88.20	100.70	125.75
C	Colusa (SV)	Winter	2016	325.69	379.22	445.20	562.63	73.11	87.13	100.69	126.03
C	Colusa (SV)	Winter	2017	325.77	378.98	445.00	563.29	73.11	86.50	100.69	126.31
C	Colusa (SV)	Winter	2018	325.86	378.69	444.85	563.88	73.14	85.83	100.67	126.58
C	Colusa (SV)	Winter	2019	325.91	378.54	444.73	564.40	73.14	85.43	100.69	126.82
C	Colusa (SV)	Winter	2020	325.96	378.43	444.64	564.86	73.23	85.29	100.77	127.05
C	Colusa (SV)	Winter	2021	326.03	378.48	444.56	565.20	73.30	85.37	100.83	127.21
C	Colusa (SV)	Winter	2022	326.00	378.50	444.46	565.49	73.33	85.43	100.88	127.34
C	Colusa (SV)	Winter	2023	325.99	378.59	444.38	565.73	73.36	85.52	100.91	127.52
C	Colusa (SV)	Winter	2024	325.96	378.62	444.30	565.93	73.37	85.59	100.94	127.69
C	Colusa (SV)	Winter	2025	325.94	378.65	444.24	566.14	73.39	85.65	100.97	127.86
C	Colusa (SV)	Winter	2026	325.95	378.74	444.15	566.35	73.41	85.73	100.99	128.02
C	Colusa (SV)	Winter	2027	325.96	378.83	444.08	566.56	73.42	85.79	101.00	128.16
C	Colusa (SV)	Winter	2028	325.96	378.92	444.01	566.77	73.43	85.86	101.01	128.30
C	Colusa (SV)	Winter	2029	325.97	379.01	443.92	566.97	73.44	85.92	101.01	128.42
C	Colusa (SV)	Winter	2030	325.95	379.10	443.83	567.18	73.44	85.97	101.00	128.54
C	Colusa (SV)	Winter	2031	325.95	379.18	443.78	567.38	73.45	86.03	101.00	128.66
C	Colusa (SV)	Winter	2032	325.95	379.27	443.73	567.59	73.45	86.08	101.00	128.77
C	Colusa (SV)	Winter	2033	325.94	379.34	443.70	567.78	73.46	86.13	101.01	128.87
C	Colusa (SV)	Winter	2034	325.93	379.41	443.65	567.95	73.46	86.17	101.01	128.96
C	Colusa (SV)	Winter	2035	325.92	379.46	443.62	568.10	73.47	86.21	101.01	129.05
C	Contra Costa (SF)	Annual	2010	337.72	388.00	461.97	582.83	73.09	84.25	99.46	124.66
C	Contra Costa (SF)	Annual	2011	337.88	388.46	461.87	583.33	73.11	84.14	99.56	124.86
C	Contra Costa (SF)	Annual	2012	338.04	388.95	461.80	583.91	73.13	84.12	99.66	125.09
C	Contra Costa (SF)	Annual	2013	338.24	389.39	461.74	584.52	73.18	84.12	99.78	125.33
C	Contra Costa (SF)	Annual	2014	338.41	389.81	461.71	585.13	73.21	84.13	99.88	125.58
C	Contra Costa (SF)	Annual	2015	338.60	390.21	461.69	585.76	73.27	84.16	99.98	125.84

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Contra Costa (SF)	Annual	2016	338.79	390.60	461.68	586.37	73.35	84.23	100.09	126.11
C	Contra Costa (SF)	Annual	2017	338.93	390.94	461.67	586.95	73.40	84.27	100.17	126.37
C	Contra Costa (SF)	Annual	2018	339.06	391.27	461.66	587.46	73.45	84.35	100.26	126.62
C	Contra Costa (SF)	Annual	2019	339.18	391.60	461.67	587.90	73.51	84.48	100.35	126.86
C	Contra Costa (SF)	Annual	2020	339.28	391.89	461.67	588.30	73.61	84.63	100.45	127.08
C	Contra Costa (SF)	Annual	2021	339.36	392.15	461.67	588.63	73.69	84.80	100.54	127.27
C	Contra Costa (SF)	Annual	2022	339.41	392.38	461.67	588.91	73.75	84.95	100.62	127.42
C	Contra Costa (SF)	Annual	2023	339.42	392.56	461.66	589.13	73.79	85.08	100.69	127.59
C	Contra Costa (SF)	Annual	2024	339.40	392.71	461.65	589.30	73.81	85.19	100.75	127.75
C	Contra Costa (SF)	Annual	2025	339.41	392.84	461.65	589.47	73.84	85.30	100.80	127.91
C	Contra Costa (SF)	Annual	2026	339.43	393.00	461.64	589.64	73.86	85.40	100.84	128.05
C	Contra Costa (SF)	Annual	2027	339.44	393.15	461.62	589.81	73.88	85.49	100.87	128.18
C	Contra Costa (SF)	Annual	2028	339.44	393.31	461.61	589.98	73.89	85.58	100.89	128.30
C	Contra Costa (SF)	Annual	2029	339.44	393.47	461.59	590.14	73.90	85.66	100.91	128.41
C	Contra Costa (SF)	Annual	2030	339.44	393.63	461.58	590.31	73.90	85.74	100.92	128.52
C	Contra Costa (SF)	Annual	2031	339.44	393.80	461.57	590.49	73.91	85.82	100.93	128.62
C	Contra Costa (SF)	Annual	2032	339.44	393.97	461.56	590.67	73.91	85.89	100.94	128.72
C	Contra Costa (SF)	Annual	2033	339.44	394.11	461.55	590.84	73.92	85.96	100.95	128.82
C	Contra Costa (SF)	Annual	2034	339.43	394.24	461.54	590.99	73.92	86.02	100.96	128.90
C	Contra Costa (SF)	Annual	2035	339.43	394.36	461.53	591.12	73.92	86.08	100.96	128.98
C	Contra Costa (SF)	Summer	2010	368.96	420.20	503.53	635.26	73.09	84.25	99.46	124.66
C	Contra Costa (SF)	Summer	2011	369.30	421.14	503.46	635.62	73.11	84.14	99.56	124.86
C	Contra Costa (SF)	Summer	2012	369.63	422.03	503.44	636.15	73.13	84.12	99.66	125.09
C	Contra Costa (SF)	Summer	2013	369.95	422.81	503.47	636.80	73.18	84.12	99.78	125.33
C	Contra Costa (SF)	Summer	2014	370.23	423.51	503.55	637.51	73.21	84.13	99.88	125.58
C	Contra Costa (SF)	Summer	2015	370.49	424.14	503.64	638.30	73.27	84.16	99.98	125.84
C	Contra Costa (SF)	Summer	2016	370.73	424.73	503.73	639.09	73.35	84.23	100.09	126.11
C	Contra Costa (SF)	Summer	2017	370.91	425.27	503.81	639.85	73.40	84.27	100.17	126.37
C	Contra Costa (SF)	Summer	2018	371.04	425.77	503.86	640.51	73.45	84.35	100.26	126.62
C	Contra Costa (SF)	Summer	2019	371.16	426.23	503.89	641.07	73.51	84.48	100.35	126.86
C	Contra Costa (SF)	Summer	2020	371.26	426.65	503.90	641.58	73.61	84.63	100.45	127.08
C	Contra Costa (SF)	Summer	2021	371.34	427.00	503.90	641.99	73.69	84.80	100.54	127.27
C	Contra Costa (SF)	Summer	2022	371.39	427.32	503.89	642.34	73.75	84.95	100.62	127.42
C	Contra Costa (SF)	Summer	2023	371.40	427.58	503.87	642.59	73.79	85.08	100.69	127.59
C	Contra Costa (SF)	Summer	2024	371.39	427.81	503.84	642.79	73.81	85.19	100.75	127.75
C	Contra Costa (SF)	Summer	2025	371.39	428.02	503.82	642.98	73.84	85.30	100.80	127.91
C	Contra Costa (SF)	Summer	2026	371.41	428.24	503.80	643.16	73.86	85.40	100.84	128.05
C	Contra Costa (SF)	Summer	2027	371.43	428.46	503.77	643.33	73.88	85.49	100.87	128.18
C	Contra Costa (SF)	Summer	2028	371.44	428.69	503.76	643.49	73.89	85.58	100.89	128.30
C	Contra Costa (SF)	Summer	2029	371.45	428.93	503.74	643.66	73.90	85.66	100.91	128.41
C	Contra Costa (SF)	Summer	2030	371.45	429.16	503.72	643.84	73.90	85.74	100.92	128.52
C	Contra Costa (SF)	Summer	2031	371.45	429.42	503.71	644.04	73.91	85.82	100.93	128.62
C	Contra Costa (SF)	Summer	2032	371.46	429.64	503.71	644.25	73.91	85.89	100.94	128.72
C	Contra Costa (SF)	Summer	2033	371.46	429.83	503.70	644.45	73.92	85.96	100.95	128.82
C	Contra Costa (SF)	Summer	2034	371.46	430.01	503.69	644.64	73.92	86.02	100.96	128.90
C	Contra Costa (SF)	Summer	2035	371.46	430.14	503.69	644.81	73.92	86.08	100.96	128.98
C	Contra Costa (SF)	Winter	2010	333.44	383.59	456.28	575.64	73.09	84.25	99.46	124.66
C	Contra Costa (SF)	Winter	2011	333.57	383.99	456.17	576.17	73.11	84.14	99.56	124.86
C	Contra Costa (SF)	Winter	2012	333.71	384.41	456.09	576.75	73.13	84.12	99.66	125.09
C	Contra Costa (SF)	Winter	2013	333.89	384.81	456.03	577.35	73.18	84.12	99.78	125.33
C	Contra Costa (SF)	Winter	2014	334.06	385.19	455.97	577.95	73.21	84.13	99.88	125.58
C	Contra Costa (SF)	Winter	2015	334.23	385.56	455.94	578.56	73.27	84.16	99.98	125.84
C	Contra Costa (SF)	Winter	2016	334.42	385.92	455.91	579.14	73.35	84.23	100.09	126.11
C	Contra Costa (SF)	Winter	2017	334.55	386.24	455.89	579.70	73.40	84.27	100.17	126.37

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Contra Costa (SF)	Winter	2018	334.68	386.55	455.88	580.19	73.45	84.35	100.26	126.62
C	Contra Costa (SF)	Winter	2019	334.80	386.85	455.88	580.61	73.51	84.48	100.35	126.86
C	Contra Costa (SF)	Winter	2020	334.90	387.12	455.88	581.00	73.61	84.63	100.45	127.08
C	Contra Costa (SF)	Winter	2021	334.98	387.38	455.89	581.32	73.69	84.80	100.54	127.27
C	Contra Costa (SF)	Winter	2022	335.03	387.59	455.89	581.59	73.75	84.95	100.62	127.42
C	Contra Costa (SF)	Winter	2023	335.04	387.76	455.88	581.80	73.79	85.08	100.69	127.59
C	Contra Costa (SF)	Winter	2024	335.02	387.90	455.87	581.97	73.81	85.19	100.75	127.75
C	Contra Costa (SF)	Winter	2025	335.02	388.02	455.87	582.14	73.84	85.30	100.80	127.91
C	Contra Costa (SF)	Winter	2026	335.04	388.17	455.86	582.31	73.86	85.40	100.84	128.05
C	Contra Costa (SF)	Winter	2027	335.06	388.31	455.85	582.48	73.88	85.49	100.87	128.18
C	Contra Costa (SF)	Winter	2028	335.06	388.46	455.84	582.64	73.89	85.58	100.89	128.30
C	Contra Costa (SF)	Winter	2029	335.06	388.61	455.82	582.81	73.90	85.66	100.91	128.41
C	Contra Costa (SF)	Winter	2030	335.05	388.77	455.80	582.97	73.90	85.74	100.92	128.52
C	Contra Costa (SF)	Winter	2031	335.05	388.93	455.80	583.15	73.91	85.82	100.93	128.62
C	Contra Costa (SF)	Winter	2032	335.05	389.08	455.79	583.33	73.91	85.89	100.94	128.72
C	Contra Costa (SF)	Winter	2033	335.05	389.22	455.78	583.49	73.92	85.96	100.95	128.82
C	Contra Costa (SF)	Winter	2034	335.04	389.34	455.77	583.64	73.92	86.02	100.96	128.90
C	Contra Costa (SF)	Winter	2035	335.04	389.45	455.76	583.77	73.92	86.08	100.96	128.98
C	Del Norte (NC)	Annual	2010	353.30	405.98	485.33	605.59	73.80	85.57	100.54	124.43
C	Del Norte (NC)	Annual	2011	353.26	406.47	484.59	606.29	73.68	85.27	100.49	124.61
C	Del Norte (NC)	Annual	2012	353.28	406.97	484.01	607.12	73.58	85.14	100.48	124.82
C	Del Norte (NC)	Annual	2013	353.37	407.31	483.54	607.97	73.54	84.86	100.50	125.08
C	Del Norte (NC)	Annual	2014	353.52	407.69	483.17	608.82	73.58	84.78	100.50	125.32
C	Del Norte (NC)	Annual	2015	353.58	408.04	482.87	609.68	73.49	84.68	100.48	125.58
C	Del Norte (NC)	Annual	2016	353.72	408.34	482.64	610.47	73.52	84.60	100.54	125.88
C	Del Norte (NC)	Annual	2017	353.79	408.62	482.46	611.23	73.50	84.54	100.61	126.18
C	Del Norte (NC)	Annual	2018	353.86	408.91	482.31	611.89	73.48	84.59	100.64	126.45
C	Del Norte (NC)	Annual	2019	353.93	409.17	482.19	612.44	73.50	84.69	100.67	126.70
C	Del Norte (NC)	Annual	2020	354.00	409.40	482.10	612.93	73.59	84.81	100.74	126.94
C	Del Norte (NC)	Annual	2021	354.01	409.58	482.02	613.29	73.64	84.94	100.81	127.14
C	Del Norte (NC)	Annual	2022	353.98	409.71	481.94	613.59	73.67	85.06	100.86	127.30
C	Del Norte (NC)	Annual	2023	353.92	409.83	481.85	613.81	73.68	85.17	100.89	127.49
C	Del Norte (NC)	Annual	2024	353.85	409.93	481.77	613.99	73.68	85.27	100.92	127.66
C	Del Norte (NC)	Annual	2025	353.80	410.06	481.71	614.17	73.69	85.38	100.96	127.83
C	Del Norte (NC)	Annual	2026	353.81	410.21	481.63	614.35	73.71	85.49	100.97	127.98
C	Del Norte (NC)	Annual	2027	353.82	410.35	481.57	614.55	73.72	85.59	100.99	128.13
C	Del Norte (NC)	Annual	2028	353.82	410.50	481.51	614.76	73.73	85.68	101.00	128.27
C	Del Norte (NC)	Annual	2029	353.81	410.65	481.44	614.96	73.74	85.77	101.00	128.39
C	Del Norte (NC)	Annual	2030	353.79	410.80	481.36	615.16	73.74	85.86	101.00	128.51
C	Del Norte (NC)	Annual	2031	353.79	410.94	481.32	615.37	73.75	85.94	101.00	128.63
C	Del Norte (NC)	Annual	2032	353.79	411.09	481.28	615.58	73.75	86.02	101.01	128.74
C	Del Norte (NC)	Annual	2033	353.78	411.21	481.24	615.77	73.76	86.09	101.01	128.84
C	Del Norte (NC)	Annual	2034	353.78	411.32	481.21	615.94	73.76	86.15	101.01	128.93
C	Del Norte (NC)	Annual	2035	353.77	411.41	481.19	616.08	73.77	86.20	101.02	129.01
C	Del Norte (NC)	Summer	2010	356.62	409.26	489.68	611.00	73.80	85.57	100.54	124.43
C	Del Norte (NC)	Summer	2011	356.62	409.85	488.99	611.70	73.68	85.27	100.49	124.61
C	Del Norte (NC)	Summer	2012	356.66	410.43	488.44	612.56	73.58	85.14	100.48	124.82
C	Del Norte (NC)	Summer	2013	356.78	410.84	488.01	613.44	73.54	84.86	100.50	125.08
C	Del Norte (NC)	Summer	2014	356.95	411.27	487.66	614.32	73.58	84.78	100.50	125.32
C	Del Norte (NC)	Summer	2015	357.01	411.66	487.38	615.22	73.49	84.68	100.48	125.58
C	Del Norte (NC)	Summer	2016	357.16	412.00	487.17	616.05	73.52	84.60	100.54	125.88
C	Del Norte (NC)	Summer	2017	357.24	412.31	487.00	616.84	73.50	84.54	100.61	126.18
C	Del Norte (NC)	Summer	2018	357.30	412.61	486.86	617.53	73.48	84.59	100.64	126.45
C	Del Norte (NC)	Summer	2019	357.37	412.90	486.74	618.11	73.50	84.69	100.67	126.70

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Del Norte (NC)	Summer	2020	357.44	413.14	486.65	618.61	73.59	84.81	100.74	126.94
C	Del Norte (NC)	Summer	2021	357.45	413.33	486.57	618.99	73.64	84.94	100.81	127.14
C	Del Norte (NC)	Summer	2022	357.42	413.48	486.48	619.30	73.67	85.06	100.86	127.30
C	Del Norte (NC)	Summer	2023	357.36	413.62	486.39	619.53	73.68	85.17	100.89	127.49
C	Del Norte (NC)	Summer	2024	357.29	413.72	486.32	619.72	73.68	85.27	100.92	127.66
C	Del Norte (NC)	Summer	2025	357.24	413.86	486.26	619.90	73.69	85.38	100.96	127.83
C	Del Norte (NC)	Summer	2026	357.26	414.02	486.18	620.09	73.71	85.49	100.97	127.98
C	Del Norte (NC)	Summer	2027	357.26	414.18	486.12	620.29	73.72	85.59	100.99	128.13
C	Del Norte (NC)	Summer	2028	357.27	414.33	486.06	620.50	73.73	85.68	101.00	128.27
C	Del Norte (NC)	Summer	2029	357.26	414.49	485.99	620.71	73.74	85.77	101.00	128.39
C	Del Norte (NC)	Summer	2030	357.24	414.65	485.91	620.91	73.74	85.86	101.00	128.51
C	Del Norte (NC)	Summer	2031	357.24	414.80	485.87	621.13	73.75	85.94	101.00	128.63
C	Del Norte (NC)	Summer	2032	357.24	414.95	485.84	621.34	73.75	86.02	101.01	128.74
C	Del Norte (NC)	Summer	2033	357.23	415.08	485.80	621.53	73.76	86.09	101.01	128.84
C	Del Norte (NC)	Summer	2034	357.23	415.20	485.78	621.71	73.76	86.15	101.01	128.93
C	Del Norte (NC)	Summer	2035	357.22	415.29	485.75	621.85	73.77	86.20	101.02	129.01
C	Del Norte (NC)	Winter	2010	351.96	404.67	483.59	603.42	73.80	85.57	100.54	124.43
C	Del Norte (NC)	Winter	2011	351.91	405.12	482.83	604.11	73.68	85.27	100.49	124.61
C	Del Norte (NC)	Winter	2012	351.92	405.58	482.23	604.93	73.58	85.14	100.48	124.82
C	Del Norte (NC)	Winter	2013	352.00	405.90	481.75	605.77	73.54	84.86	100.50	125.08
C	Del Norte (NC)	Winter	2014	352.15	406.26	481.37	606.61	73.58	84.78	100.50	125.32
C	Del Norte (NC)	Winter	2015	352.20	406.58	481.06	607.45	73.49	84.68	100.48	125.58
C	Del Norte (NC)	Winter	2016	352.34	406.87	480.82	608.23	73.52	84.60	100.54	125.88
C	Del Norte (NC)	Winter	2017	352.41	407.14	480.64	608.97	73.50	84.54	100.61	126.18
C	Del Norte (NC)	Winter	2018	352.47	407.42	480.49	609.63	73.48	84.59	100.64	126.45
C	Del Norte (NC)	Winter	2019	352.55	407.68	480.37	610.17	73.50	84.69	100.67	126.70
C	Del Norte (NC)	Winter	2020	352.62	407.90	480.28	610.65	73.59	84.81	100.74	126.94
C	Del Norte (NC)	Winter	2021	352.63	408.07	480.20	611.00	73.64	84.94	100.81	127.14
C	Del Norte (NC)	Winter	2022	352.60	408.20	480.11	611.29	73.67	85.06	100.86	127.30
C	Del Norte (NC)	Winter	2023	352.53	408.31	480.02	611.52	73.68	85.17	100.89	127.49
C	Del Norte (NC)	Winter	2024	352.46	408.40	479.94	611.69	73.68	85.27	100.92	127.66
C	Del Norte (NC)	Winter	2025	352.42	408.53	479.89	611.86	73.69	85.38	100.96	127.83
C	Del Norte (NC)	Winter	2026	352.43	408.68	479.81	612.05	73.71	85.49	100.97	127.98
C	Del Norte (NC)	Winter	2027	352.43	408.82	479.75	612.25	73.72	85.59	100.99	128.13
C	Del Norte (NC)	Winter	2028	352.44	408.96	479.68	612.45	73.73	85.68	101.00	128.27
C	Del Norte (NC)	Winter	2029	352.43	409.11	479.61	612.65	73.74	85.77	101.00	128.39
C	Del Norte (NC)	Winter	2030	352.41	409.25	479.53	612.85	73.74	85.86	101.00	128.51
C	Del Norte (NC)	Winter	2031	352.41	409.39	479.49	613.06	73.75	85.94	101.00	128.63
C	Del Norte (NC)	Winter	2032	352.40	409.53	479.45	613.27	73.75	86.02	101.01	128.74
C	Del Norte (NC)	Winter	2033	352.40	409.66	479.41	613.45	73.76	86.09	101.01	128.84
C	Del Norte (NC)	Winter	2034	352.39	409.77	479.38	613.62	73.76	86.15	101.01	128.93
C	Del Norte (NC)	Winter	2035	352.38	409.86	479.36	613.76	73.77	86.20	101.02	129.01
C	El Dorado (LT)	Annual	2010	363.47	420.59	499.06	619.88	74.08	86.91	99.84	122.94
C	El Dorado (LT)	Annual	2011	363.51	420.75	498.59	620.83	73.91	86.42	99.87	123.15
C	El Dorado (LT)	Annual	2012	363.61	420.94	498.22	621.97	73.79	86.06	99.97	123.43
C	El Dorado (LT)	Annual	2013	363.76	421.15	497.91	623.17	73.76	85.79	100.05	123.76
C	El Dorado (LT)	Annual	2014	363.85	421.29	497.66	624.33	73.56	85.48	100.11	124.10
C	El Dorado (LT)	Annual	2015	363.99	421.51	497.47	625.56	73.53	85.30	100.19	124.47
C	El Dorado (LT)	Annual	2016	364.13	421.67	497.31	626.72	73.54	85.07	100.27	124.86
C	El Dorado (LT)	Annual	2017	364.23	421.87	497.19	627.80	73.55	84.93	100.33	125.23
C	El Dorado (LT)	Annual	2018	364.27	422.03	497.10	628.75	73.43	84.84	100.40	125.59
C	El Dorado (LT)	Annual	2019	364.31	422.23	497.04	629.59	73.36	84.85	100.48	125.93
C	El Dorado (LT)	Annual	2020	364.34	422.39	496.99	630.30	73.43	84.91	100.58	126.25
C	El Dorado (LT)	Annual	2021	364.31	422.53	496.95	630.87	73.45	85.03	100.67	126.51

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	El Dorado (LT)	Annual	2022	364.27	422.64	496.89	631.38	73.45	85.13	100.74	126.75
C	El Dorado (LT)	Annual	2023	364.23	422.72	496.84	631.78	73.45	85.22	100.79	127.00
C	El Dorado (LT)	Annual	2024	364.12	422.76	496.80	632.08	73.39	85.30	100.84	127.22
C	El Dorado (LT)	Annual	2025	364.10	422.89	496.76	632.37	73.40	85.40	100.89	127.42
C	El Dorado (LT)	Annual	2026	364.10	423.07	496.72	632.65	73.42	85.51	100.92	127.61
C	El Dorado (LT)	Annual	2027	364.11	423.22	496.68	632.93	73.43	85.61	100.94	127.79
C	El Dorado (LT)	Annual	2028	364.11	423.39	496.64	633.22	73.44	85.71	100.96	127.95
C	El Dorado (LT)	Annual	2029	364.10	423.55	496.60	633.51	73.44	85.80	100.98	128.11
C	El Dorado (LT)	Annual	2030	364.09	423.70	496.55	633.80	73.44	85.88	100.98	128.26
C	El Dorado (LT)	Annual	2031	364.10	423.86	496.51	634.10	73.45	85.96	100.99	128.40
C	El Dorado (LT)	Annual	2032	364.10	424.01	496.48	634.41	73.45	86.03	101.00	128.54
C	El Dorado (LT)	Annual	2033	364.10	424.14	496.46	634.69	73.46	86.10	101.00	128.66
C	El Dorado (LT)	Annual	2034	364.10	424.26	496.43	634.93	73.46	86.16	101.01	128.78
C	El Dorado (LT)	Annual	2035	364.09	424.36	496.41	635.15	73.47	86.21	101.01	128.88
C	El Dorado (LT)	Summer	2010	362.83	419.96	498.22	618.85	74.08	86.91	99.84	122.94
C	El Dorado (LT)	Summer	2011	362.86	420.10	497.75	619.79	73.91	86.42	99.87	123.15
C	El Dorado (LT)	Summer	2012	362.96	420.28	497.37	620.93	73.79	86.06	99.97	123.43
C	El Dorado (LT)	Summer	2013	363.10	420.47	497.05	622.12	73.76	85.79	100.05	123.76
C	El Dorado (LT)	Summer	2014	363.19	420.61	496.80	623.28	73.56	85.48	100.11	124.10
C	El Dorado (LT)	Summer	2015	363.33	420.82	496.60	624.50	73.53	85.30	100.19	124.47
C	El Dorado (LT)	Summer	2016	363.47	420.97	496.44	625.65	73.54	85.07	100.27	124.86
C	El Dorado (LT)	Summer	2017	363.57	421.16	496.32	626.72	73.55	84.93	100.33	125.23
C	El Dorado (LT)	Summer	2018	363.61	421.32	496.23	627.67	73.43	84.84	100.40	125.59
C	El Dorado (LT)	Summer	2019	363.65	421.51	496.16	628.50	73.36	84.85	100.48	125.93
C	El Dorado (LT)	Summer	2020	363.67	421.67	496.12	629.21	73.43	84.91	100.58	126.25
C	El Dorado (LT)	Summer	2021	363.65	421.81	496.07	629.78	73.45	85.03	100.67	126.51
C	El Dorado (LT)	Summer	2022	363.61	421.92	496.02	630.28	73.45	85.13	100.74	126.75
C	El Dorado (LT)	Summer	2023	363.57	421.99	495.97	630.68	73.45	85.22	100.79	127.00
C	El Dorado (LT)	Summer	2024	363.46	422.03	495.92	630.99	73.39	85.30	100.84	127.22
C	El Dorado (LT)	Summer	2025	363.44	422.16	495.89	631.27	73.40	85.40	100.89	127.42
C	El Dorado (LT)	Summer	2026	363.44	422.33	495.85	631.55	73.42	85.51	100.92	127.61
C	El Dorado (LT)	Summer	2027	363.45	422.49	495.80	631.83	73.43	85.61	100.94	127.79
C	El Dorado (LT)	Summer	2028	363.44	422.65	495.77	632.12	73.44	85.71	100.96	127.95
C	El Dorado (LT)	Summer	2029	363.44	422.81	495.73	632.41	73.44	85.80	100.98	128.11
C	El Dorado (LT)	Summer	2030	363.43	422.96	495.68	632.70	73.44	85.88	100.98	128.26
C	El Dorado (LT)	Summer	2031	363.43	423.12	495.64	633.00	73.45	85.96	100.99	128.40
C	El Dorado (LT)	Summer	2032	363.43	423.26	495.61	633.31	73.45	86.03	101.00	128.54
C	El Dorado (LT)	Summer	2033	363.43	423.40	495.58	633.58	73.46	86.10	101.00	128.66
C	El Dorado (LT)	Summer	2034	363.43	423.51	495.56	633.82	73.46	86.16	101.01	128.78
C	El Dorado (LT)	Summer	2035	363.43	423.62	495.53	634.04	73.47	86.21	101.01	128.88
C	El Dorado (LT)	Winter	2010	362.83	419.96	498.22	618.85	74.08	86.91	99.84	122.94
C	El Dorado (LT)	Winter	2011	362.86	420.10	497.75	619.79	73.91	86.42	99.87	123.15
C	El Dorado (LT)	Winter	2012	362.96	420.28	497.37	620.93	73.79	86.06	99.97	123.43
C	El Dorado (LT)	Winter	2013	363.10	420.47	497.05	622.12	73.76	85.79	100.05	123.76
C	El Dorado (LT)	Winter	2014	363.19	420.61	496.80	623.28	73.56	85.48	100.11	124.10
C	El Dorado (LT)	Winter	2015	363.33	420.82	496.60	624.50	73.53	85.30	100.19	124.47
C	El Dorado (LT)	Winter	2016	363.47	420.97	496.44	625.65	73.54	85.07	100.27	124.86
C	El Dorado (LT)	Winter	2017	363.57	421.16	496.32	626.72	73.55	84.93	100.33	125.23
C	El Dorado (LT)	Winter	2018	363.61	421.32	496.23	627.67	73.43	84.84	100.40	125.59
C	El Dorado (LT)	Winter	2019	363.65	421.51	496.16	628.50	73.36	84.85	100.48	125.93
C	El Dorado (LT)	Winter	2020	363.67	421.67	496.12	629.21	73.43	84.91	100.58	126.25
C	El Dorado (LT)	Winter	2021	363.65	421.81	496.07	629.78	73.45	85.03	100.67	126.51
C	El Dorado (LT)	Winter	2022	363.61	421.92	496.02	630.28	73.45	85.13	100.74	126.75
C	El Dorado (LT)	Winter	2023	363.57	421.99	495.97	630.68	73.45	85.22	100.79	127.00

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	El Dorado (LT)	Winter	2024	363.46	422.03	495.92	630.99	73.39	85.30	100.84	127.22
C	El Dorado (LT)	Winter	2025	363.44	422.16	495.89	631.27	73.40	85.40	100.89	127.42
C	El Dorado (LT)	Winter	2026	363.44	422.33	495.85	631.55	73.42	85.51	100.92	127.61
C	El Dorado (LT)	Winter	2027	363.45	422.49	495.80	631.83	73.43	85.61	100.94	127.79
C	El Dorado (LT)	Winter	2028	363.44	422.65	495.77	632.12	73.44	85.71	100.96	127.95
C	El Dorado (LT)	Winter	2029	363.44	422.81	495.73	632.41	73.44	85.80	100.98	128.11
C	El Dorado (LT)	Winter	2030	363.43	422.96	495.68	632.70	73.44	85.88	100.98	128.26
C	El Dorado (LT)	Winter	2031	363.43	423.12	495.64	633.00	73.45	85.96	100.99	128.40
C	El Dorado (LT)	Winter	2032	363.43	423.26	495.61	633.31	73.45	86.03	101.00	128.54
C	El Dorado (LT)	Winter	2033	363.43	423.40	495.58	633.58	73.46	86.10	101.00	128.66
C	El Dorado (LT)	Winter	2034	363.43	423.51	495.56	633.82	73.46	86.16	101.01	128.78
C	El Dorado (LT)	Winter	2035	363.43	423.62	495.53	634.04	73.47	86.21	101.01	128.88
C	El Dorado (MC)	Annual	2010	341.76	395.46	468.95	590.66	73.77	88.15	100.13	125.49
C	El Dorado (MC)	Annual	2011	342.05	395.72	468.70	591.19	73.66	87.38	100.12	125.61
C	El Dorado (MC)	Annual	2012	342.34	396.02	468.51	591.78	73.58	86.83	100.17	125.76
C	El Dorado (MC)	Annual	2013	342.60	396.27	468.36	592.41	73.49	86.35	100.21	125.94
C	El Dorado (MC)	Annual	2014	342.84	396.49	468.26	593.06	73.40	85.94	100.24	126.13
C	El Dorado (MC)	Annual	2015	343.06	396.70	468.18	593.72	73.38	85.57	100.28	126.34
C	El Dorado (MC)	Annual	2016	343.27	396.90	468.13	594.34	73.40	85.26	100.33	126.56
C	El Dorado (MC)	Annual	2017	343.44	397.07	468.08	594.94	73.42	84.99	100.35	126.78
C	El Dorado (MC)	Annual	2018	343.57	397.22	468.03	595.46	73.41	84.78	100.39	126.99
C	El Dorado (MC)	Annual	2019	339.95	393.13	462.91	589.40	73.43	84.80	100.45	127.18
C	El Dorado (MC)	Annual	2020	340.04	393.35	462.88	589.78	73.52	84.89	100.54	127.35
C	El Dorado (MC)	Annual	2021	340.11	393.57	462.85	590.02	73.60	85.04	100.62	127.46
C	El Dorado (MC)	Annual	2022	340.16	393.76	462.81	590.22	73.66	85.17	100.69	127.54
C	El Dorado (MC)	Annual	2023	340.19	393.90	462.78	590.36	73.70	85.27	100.74	127.69
C	El Dorado (MC)	Annual	2024	340.20	394.02	462.75	590.47	73.72	85.37	100.79	127.82
C	El Dorado (MC)	Annual	2025	340.22	394.12	462.73	590.61	73.75	85.46	100.83	127.96
C	El Dorado (MC)	Annual	2026	340.23	394.26	462.70	590.76	73.77	85.55	100.87	128.09
C	El Dorado (MC)	Annual	2027	340.24	394.39	462.67	590.90	73.78	85.64	100.89	128.21
C	El Dorado (MC)	Annual	2028	340.25	394.53	462.65	591.06	73.79	85.72	100.91	128.32
C	El Dorado (MC)	Annual	2029	340.25	394.66	462.61	591.21	73.80	85.79	100.92	128.43
C	El Dorado (MC)	Annual	2030	340.25	394.80	462.58	591.37	73.81	85.86	100.93	128.53
C	El Dorado (MC)	Annual	2031	340.26	394.95	462.56	591.56	73.81	85.93	100.94	128.63
C	El Dorado (MC)	Annual	2032	340.26	395.08	462.54	591.75	73.82	86.00	100.94	128.73
C	El Dorado (MC)	Annual	2033	340.26	395.20	462.53	591.93	73.82	86.06	100.95	128.82
C	El Dorado (MC)	Annual	2034	340.26	395.30	462.51	592.08	73.82	86.11	100.96	128.91
C	El Dorado (MC)	Annual	2035	340.26	395.39	462.50	592.22	73.83	86.16	100.96	128.99
C	El Dorado (MC)	Summer	2010	375.93	429.67	513.60	646.77	73.77	88.15	100.13	125.49
C	El Dorado (MC)	Summer	2011	376.40	430.73	513.53	647.24	73.66	87.38	100.12	125.61
C	El Dorado (MC)	Summer	2012	376.82	431.64	513.49	647.88	73.58	86.83	100.17	125.76
C	El Dorado (MC)	Summer	2013	377.19	432.39	513.51	648.63	73.49	86.35	100.21	125.94
C	El Dorado (MC)	Summer	2014	377.52	433.03	513.58	649.46	73.40	85.94	100.24	126.13
C	El Dorado (MC)	Summer	2015	377.80	433.58	513.65	650.36	73.38	85.57	100.28	126.34
C	El Dorado (MC)	Summer	2016	378.06	434.07	513.72	651.21	73.40	85.26	100.33	126.56
C	El Dorado (MC)	Summer	2017	378.25	434.50	513.77	652.04	73.42	84.99	100.35	126.78
C	El Dorado (MC)	Summer	2018	378.38	434.84	513.78	652.74	73.41	84.78	100.39	126.99
C	El Dorado (MC)	Summer	2019	374.39	430.51	508.19	646.23	73.43	84.80	100.45	127.18
C	El Dorado (MC)	Summer	2020	374.46	430.84	508.14	646.71	73.52	84.89	100.54	127.35
C	El Dorado (MC)	Summer	2021	374.53	431.14	508.05	646.99	73.60	85.04	100.62	127.46
C	El Dorado (MC)	Summer	2022	374.58	431.41	507.98	647.24	73.66	85.17	100.69	127.54
C	El Dorado (MC)	Summer	2023	374.61	431.64	507.91	647.42	73.70	85.27	100.74	127.69
C	El Dorado (MC)	Summer	2024	374.62	431.82	507.88	647.54	73.72	85.37	100.79	127.82
C	El Dorado (MC)	Summer	2025	374.63	432.00	507.85	647.66	73.75	85.46	100.83	127.96

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	El Dorado (MC)	Summer	2026	374.64	432.19	507.84	647.82	73.77	85.55	100.87	128.09
C	El Dorado (MC)	Summer	2027	374.65	432.39	507.84	647.97	73.78	85.64	100.89	128.21
C	El Dorado (MC)	Summer	2028	374.65	432.59	507.83	648.14	73.79	85.72	100.91	128.32
C	El Dorado (MC)	Summer	2029	374.66	432.80	507.82	648.31	73.80	85.79	100.92	128.43
C	El Dorado (MC)	Summer	2030	374.67	433.02	507.80	648.50	73.81	85.86	100.93	128.53
C	El Dorado (MC)	Summer	2031	374.67	433.23	507.79	648.74	73.81	85.93	100.94	128.63
C	El Dorado (MC)	Summer	2032	374.68	433.42	507.77	648.97	73.82	86.00	100.94	128.73
C	El Dorado (MC)	Summer	2033	374.68	433.57	507.76	649.20	73.82	86.06	100.95	128.82
C	El Dorado (MC)	Summer	2034	374.68	433.70	507.74	649.41	73.82	86.11	100.96	128.91
C	El Dorado (MC)	Summer	2035	374.68	433.81	507.72	649.60	73.83	86.16	100.96	128.99
C	El Dorado (MC)	Winter	2010	333.35	387.05	457.96	576.85	73.77	88.15	100.13	125.49
C	El Dorado (MC)	Winter	2011	333.60	387.11	457.67	577.39	73.66	87.38	100.12	125.61
C	El Dorado (MC)	Winter	2012	333.85	387.25	457.44	577.98	73.58	86.83	100.17	125.76
C	El Dorado (MC)	Winter	2013	334.09	387.38	457.26	578.58	73.49	86.35	100.21	125.94
C	El Dorado (MC)	Winter	2014	334.30	387.50	457.11	579.18	73.40	85.94	100.24	126.13
C	El Dorado (MC)	Winter	2015	334.51	387.62	457.00	579.79	73.38	85.57	100.28	126.34
C	El Dorado (MC)	Winter	2016	334.71	387.75	456.91	580.35	73.40	85.26	100.33	126.56
C	El Dorado (MC)	Winter	2017	334.88	387.86	456.83	580.89	73.42	84.99	100.35	126.78
C	El Dorado (MC)	Winter	2018	335.00	387.97	456.78	581.36	73.41	84.78	100.39	126.99
C	El Dorado (MC)	Winter	2019	331.47	383.93	451.76	575.41	73.43	84.80	100.45	127.18
C	El Dorado (MC)	Winter	2020	331.56	384.12	451.74	575.77	73.52	84.89	100.54	127.35
C	El Dorado (MC)	Winter	2021	331.64	384.32	451.72	575.99	73.60	85.04	100.62	127.46
C	El Dorado (MC)	Winter	2022	331.69	384.49	451.69	576.18	73.66	85.17	100.69	127.54
C	El Dorado (MC)	Winter	2023	331.72	384.61	451.67	576.32	73.70	85.27	100.74	127.69
C	El Dorado (MC)	Winter	2024	331.73	384.71	451.64	576.42	73.72	85.37	100.79	127.82
C	El Dorado (MC)	Winter	2025	331.74	384.80	451.62	576.56	73.75	85.46	100.83	127.96
C	El Dorado (MC)	Winter	2026	331.76	384.92	451.58	576.71	73.77	85.55	100.87	128.09
C	El Dorado (MC)	Winter	2027	331.77	385.03	451.55	576.86	73.78	85.64	100.89	128.21
C	El Dorado (MC)	Winter	2028	331.78	385.15	451.52	577.01	73.79	85.72	100.91	128.32
C	El Dorado (MC)	Winter	2029	331.78	385.27	451.48	577.15	73.80	85.79	100.92	128.43
C	El Dorado (MC)	Winter	2030	331.78	385.40	451.44	577.31	73.81	85.86	100.93	128.53
C	El Dorado (MC)	Winter	2031	331.78	385.52	451.42	577.49	73.81	85.93	100.94	128.63
C	El Dorado (MC)	Winter	2032	331.78	385.64	451.41	577.67	73.82	86.00	100.94	128.73
C	El Dorado (MC)	Winter	2033	331.78	385.75	451.39	577.83	73.82	86.06	100.95	128.82
C	El Dorado (MC)	Winter	2034	331.79	385.85	451.38	577.97	73.82	86.11	100.96	128.91
C	El Dorado (MC)	Winter	2035	331.78	385.93	451.36	578.10	73.83	86.16	100.96	128.99
C	Fresno (SJV)	Annual	2010	332.59	381.43	455.63	572.39	73.33	85.16	100.40	124.69
C	Fresno (SJV)	Annual	2011	332.92	382.33	455.40	573.13	73.36	84.93	100.38	124.93
C	Fresno (SJV)	Annual	2012	333.28	383.14	455.34	574.01	73.39	84.78	100.39	125.18
C	Fresno (SJV)	Annual	2013	333.73	383.96	455.45	575.09	73.44	84.70	100.41	125.46
C	Fresno (SJV)	Annual	2014	333.96	384.49	455.36	575.85	73.49	84.64	100.42	125.73
C	Fresno (SJV)	Annual	2015	334.75	385.63	456.06	577.60	73.55	84.63	100.44	126.02
C	Fresno (SJV)	Annual	2016	334.94	386.04	456.00	578.34	73.62	84.61	100.47	126.31
C	Fresno (SJV)	Annual	2017	335.07	386.40	455.95	579.02	73.64	84.59	100.48	126.59
C	Fresno (SJV)	Annual	2018	336.24	387.94	457.37	581.46	73.67	84.60	100.50	126.85
C	Fresno (SJV)	Annual	2019	336.33	388.23	457.33	581.97	73.72	84.71	100.53	127.09
C	Fresno (SJV)	Annual	2020	336.41	388.50	457.29	582.43	73.81	84.86	100.60	127.31
C	Fresno (SJV)	Annual	2021	336.48	388.79	457.28	582.85	73.87	85.02	100.68	127.50
C	Fresno (SJV)	Annual	2022	336.50	389.03	457.25	583.19	73.92	85.17	100.74	127.66
C	Fresno (SJV)	Annual	2023	336.51	389.23	457.23	583.46	73.95	85.29	100.80	127.85
C	Fresno (SJV)	Annual	2024	336.38	389.25	457.03	583.43	73.97	85.40	100.84	128.01
C	Fresno (SJV)	Annual	2025	336.38	389.39	457.00	583.60	73.99	85.50	100.87	128.16
C	Fresno (SJV)	Annual	2026	338.35	391.81	459.63	587.16	74.01	85.60	100.90	128.30
C	Fresno (SJV)	Annual	2027	338.36	391.96	459.61	587.32	74.02	85.68	100.92	128.43

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Fresno (SJV)	Annual	2028	338.36	392.10	459.58	587.48	74.03	85.76	100.94	128.54
C	Fresno (SJV)	Annual	2029	338.36	392.24	459.56	587.63	74.04	85.84	100.95	128.65
C	Fresno (SJV)	Annual	2030	338.36	392.37	459.53	587.79	74.04	85.91	100.96	128.75
C	Fresno (SJV)	Annual	2031	338.36	392.50	459.52	587.96	74.05	85.98	100.96	128.84
C	Fresno (SJV)	Annual	2032	338.36	392.62	459.51	588.13	74.05	86.04	100.97	128.93
C	Fresno (SJV)	Annual	2033	338.36	392.72	459.49	588.28	74.05	86.09	100.97	129.01
C	Fresno (SJV)	Annual	2034	338.36	392.81	459.48	588.42	74.06	86.14	100.98	129.09
C	Fresno (SJV)	Annual	2035	338.35	392.88	459.47	588.54	74.06	86.18	100.98	129.16
C	Fresno (SJV)	Summer	2010	365.89	415.42	499.30	627.61	73.33	85.16	100.40	124.69
C	Fresno (SJV)	Summer	2011	366.50	417.15	499.37	628.38	73.36	84.93	100.38	124.93
C	Fresno (SJV)	Summer	2012	367.06	418.57	499.55	629.35	73.39	84.78	100.39	125.18
C	Fresno (SJV)	Summer	2013	367.66	419.86	499.87	630.59	73.44	84.70	100.41	125.46
C	Fresno (SJV)	Summer	2014	368.00	420.76	499.96	631.54	73.49	84.64	100.42	125.73
C	Fresno (SJV)	Summer	2015	368.92	422.24	500.90	633.61	73.55	84.63	100.44	126.02
C	Fresno (SJV)	Summer	2016	369.16	422.88	500.97	634.57	73.62	84.61	100.47	126.31
C	Fresno (SJV)	Summer	2017	369.31	423.43	501.00	635.46	73.64	84.59	100.48	126.59
C	Fresno (SJV)	Summer	2018	370.58	425.21	502.58	638.22	73.67	84.60	100.50	126.85
C	Fresno (SJV)	Summer	2019	370.66	425.60	502.55	638.86	73.72	84.71	100.53	127.09
C	Fresno (SJV)	Summer	2020	370.71	425.96	502.50	639.43	73.81	84.86	100.60	127.31
C	Fresno (SJV)	Summer	2021	370.80	426.40	502.51	640.00	73.87	85.02	100.68	127.50
C	Fresno (SJV)	Summer	2022	370.85	426.76	502.50	640.46	73.92	85.17	100.74	127.66
C	Fresno (SJV)	Summer	2023	370.87	427.06	502.48	640.80	73.95	85.29	100.80	127.85
C	Fresno (SJV)	Summer	2024	370.73	427.16	502.25	640.76	73.97	85.40	100.84	128.01
C	Fresno (SJV)	Summer	2025	370.73	427.39	502.21	640.93	73.99	85.50	100.87	128.16
C	Fresno (SJV)	Summer	2026	372.91	430.11	505.12	644.84	74.01	85.60	100.90	128.30
C	Fresno (SJV)	Summer	2027	372.92	430.32	505.10	644.98	74.02	85.68	100.92	128.43
C	Fresno (SJV)	Summer	2028	372.93	430.52	505.08	645.13	74.03	85.76	100.94	128.54
C	Fresno (SJV)	Summer	2029	372.94	430.72	505.05	645.28	74.04	85.84	100.95	128.65
C	Fresno (SJV)	Summer	2030	372.94	430.92	505.03	645.45	74.04	85.91	100.96	128.75
C	Fresno (SJV)	Summer	2031	372.93	431.10	505.02	645.63	74.05	85.98	100.96	128.84
C	Fresno (SJV)	Summer	2032	372.93	431.26	505.01	645.82	74.05	86.04	100.97	128.93
C	Fresno (SJV)	Summer	2033	372.93	431.39	505.00	646.00	74.05	86.09	100.97	129.01
C	Fresno (SJV)	Summer	2034	372.93	431.50	504.99	646.18	74.06	86.14	100.98	129.09
C	Fresno (SJV)	Summer	2035	372.92	431.58	504.98	646.33	74.06	86.18	100.98	129.16
C	Fresno (SJV)	Winter	2010	319.21	367.78	438.09	550.22	73.33	85.16	100.40	124.69
C	Fresno (SJV)	Winter	2011	319.43	368.35	437.74	550.95	73.36	84.93	100.38	124.93
C	Fresno (SJV)	Winter	2012	319.71	368.92	437.59	551.79	73.39	84.78	100.39	125.18
C	Fresno (SJV)	Winter	2013	320.09	369.54	437.61	552.79	73.44	84.70	100.41	125.46
C	Fresno (SJV)	Winter	2014	320.29	369.93	437.44	553.49	73.49	84.64	100.42	125.73
C	Fresno (SJV)	Winter	2015	321.02	370.92	438.04	555.11	73.55	84.63	100.44	126.02
C	Fresno (SJV)	Winter	2016	321.20	371.25	437.94	555.75	73.62	84.61	100.47	126.31
C	Fresno (SJV)	Winter	2017	321.32	371.53	437.86	556.36	73.64	84.59	100.48	126.59
C	Fresno (SJV)	Winter	2018	322.45	372.96	439.21	558.66	73.67	84.60	100.50	126.85
C	Fresno (SJV)	Winter	2019	322.55	373.22	439.16	559.12	73.72	84.71	100.53	127.09
C	Fresno (SJV)	Winter	2020	322.63	373.45	439.13	559.54	73.81	84.86	100.60	127.31
C	Fresno (SJV)	Winter	2021	322.69	373.69	439.11	559.90	73.87	85.02	100.68	127.50
C	Fresno (SJV)	Winter	2022	322.71	373.88	439.08	560.19	73.92	85.17	100.74	127.66
C	Fresno (SJV)	Winter	2023	322.72	374.03	439.05	560.43	73.95	85.29	100.80	127.85
C	Fresno (SJV)	Winter	2024	322.58	374.02	438.86	560.40	73.97	85.40	100.84	128.01
C	Fresno (SJV)	Winter	2025	322.58	374.13	438.84	560.57	73.99	85.50	100.87	128.16
C	Fresno (SJV)	Winter	2026	324.46	376.42	441.35	563.99	74.01	85.60	100.90	128.30
C	Fresno (SJV)	Winter	2027	324.47	376.54	441.33	564.15	74.02	85.68	100.92	128.43
C	Fresno (SJV)	Winter	2028	324.47	376.66	441.30	564.31	74.03	85.76	100.94	128.54
C	Fresno (SJV)	Winter	2029	324.47	376.77	441.27	564.47	74.04	85.84	100.95	128.65

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Fresno (SJV)	Winter	2030	324.46	376.88	441.25	564.63	74.04	85.91	100.96	128.75
C	Fresno (SJV)	Winter	2031	324.47	376.99	441.24	564.79	74.05	85.98	100.96	128.84
C	Fresno (SJV)	Winter	2032	324.46	377.09	441.22	564.95	74.05	86.04	100.97	128.93
C	Fresno (SJV)	Winter	2033	324.46	377.18	441.21	565.09	74.05	86.09	100.97	129.01
C	Fresno (SJV)	Winter	2034	324.46	377.26	441.20	565.21	74.06	86.14	100.98	129.09
C	Fresno (SJV)	Winter	2035	324.46	377.33	441.18	565.32	74.06	86.18	100.98	129.16
C	Glenn (SV)	Annual	2010	347.61	407.24	479.18	597.47	73.80	101.05	102.36	125.05
C	Glenn (SV)	Annual	2011	347.94	406.83	478.46	597.84	73.70	98.07	102.06	125.06
C	Glenn (SV)	Annual	2012	348.25	406.57	477.93	598.43	73.59	95.83	101.82	125.13
C	Glenn (SV)	Annual	2013	348.56	406.34	477.52	599.20	73.54	93.69	101.62	125.27
C	Glenn (SV)	Annual	2014	348.81	406.16	477.20	600.00	73.43	91.83	101.37	125.43
C	Glenn (SV)	Annual	2015	349.05	406.03	476.95	600.89	73.38	90.19	101.22	125.64
C	Glenn (SV)	Annual	2016	349.27	405.92	476.74	601.81	73.41	88.68	101.09	125.88
C	Glenn (SV)	Annual	2017	349.44	405.85	476.57	602.68	73.41	87.43	101.01	126.13
C	Glenn (SV)	Annual	2018	349.58	405.77	476.41	603.43	73.43	86.26	100.91	126.38
C	Glenn (SV)	Annual	2019	349.68	405.76	476.29	604.10	73.46	85.63	100.80	126.62
C	Glenn (SV)	Annual	2020	349.77	405.79	476.19	604.70	73.56	85.43	100.85	126.85
C	Glenn (SV)	Annual	2021	349.82	405.88	476.10	605.14	73.62	85.50	100.90	126.97
C	Glenn (SV)	Annual	2022	349.86	405.97	476.01	605.47	73.68	85.55	100.94	127.04
C	Glenn (SV)	Annual	2023	349.88	406.04	475.94	605.72	73.71	85.61	100.98	127.23
C	Glenn (SV)	Annual	2024	349.89	406.11	475.87	605.91	73.71	85.66	101.00	127.41
C	Glenn (SV)	Annual	2025	349.89	406.19	475.82	606.12	73.72	85.74	101.02	127.59
C	Glenn (SV)	Annual	2026	349.91	406.27	475.76	606.32	73.75	85.81	101.03	127.77
C	Glenn (SV)	Annual	2027	349.93	406.34	475.71	606.53	73.76	85.87	101.03	127.93
C	Glenn (SV)	Annual	2028	349.94	406.42	475.66	606.74	73.77	85.93	101.03	128.07
C	Glenn (SV)	Annual	2029	349.94	406.49	475.61	606.94	73.78	85.99	101.02	128.21
C	Glenn (SV)	Annual	2030	349.94	406.57	475.56	607.16	73.78	86.04	101.01	128.34
C	Glenn (SV)	Annual	2031	349.94	406.64	475.55	607.42	73.79	86.10	101.01	128.47
C	Glenn (SV)	Annual	2032	349.94	406.69	475.53	607.68	73.79	86.15	101.01	128.60
C	Glenn (SV)	Annual	2033	349.94	406.75	475.52	607.92	73.80	86.19	101.01	128.71
C	Glenn (SV)	Annual	2034	349.94	406.79	475.50	608.14	73.80	86.23	101.01	128.82
C	Glenn (SV)	Annual	2035	349.93	406.82	475.49	608.33	73.81	86.26	101.01	128.92
C	Glenn (SV)	Summer	2010	384.83	445.81	527.20	657.56	73.80	101.05	102.36	125.05
C	Glenn (SV)	Summer	2011	385.51	446.50	527.25	657.84	73.70	98.07	102.06	125.06
C	Glenn (SV)	Summer	2012	386.08	446.98	527.28	658.52	73.59	95.83	101.82	125.13
C	Glenn (SV)	Summer	2013	386.56	447.34	527.28	659.58	73.54	93.69	101.62	125.27
C	Glenn (SV)	Summer	2014	386.94	447.60	527.29	660.69	73.43	91.83	101.37	125.43
C	Glenn (SV)	Summer	2015	387.27	447.83	527.25	661.99	73.38	90.19	101.22	125.64
C	Glenn (SV)	Summer	2016	387.55	448.01	527.19	663.37	73.41	88.68	101.09	125.88
C	Glenn (SV)	Summer	2017	387.74	448.13	527.06	664.65	73.41	87.43	101.01	126.13
C	Glenn (SV)	Summer	2018	387.86	448.22	526.91	665.76	73.43	86.26	100.91	126.38
C	Glenn (SV)	Summer	2019	387.96	448.30	526.79	666.74	73.46	85.63	100.80	126.62
C	Glenn (SV)	Summer	2020	388.02	448.37	526.65	667.59	73.56	85.43	100.85	126.85
C	Glenn (SV)	Summer	2021	388.06	448.51	526.53	668.25	73.62	85.50	100.90	126.97
C	Glenn (SV)	Summer	2022	388.09	448.64	526.43	668.76	73.68	85.55	100.94	127.04
C	Glenn (SV)	Summer	2023	388.10	448.75	526.35	669.12	73.71	85.61	100.98	127.23
C	Glenn (SV)	Summer	2024	388.12	448.88	526.29	669.37	73.71	85.66	101.00	127.41
C	Glenn (SV)	Summer	2025	388.13	449.00	526.24	669.61	73.72	85.74	101.02	127.59
C	Glenn (SV)	Summer	2026	388.17	449.13	526.19	669.78	73.75	85.81	101.03	127.77
C	Glenn (SV)	Summer	2027	388.21	449.21	526.15	669.97	73.76	85.87	101.03	127.93
C	Glenn (SV)	Summer	2028	388.24	449.33	526.12	670.17	73.77	85.93	101.03	128.07
C	Glenn (SV)	Summer	2029	388.26	449.45	526.10	670.39	73.78	85.99	101.02	128.21
C	Glenn (SV)	Summer	2030	388.28	449.57	526.08	670.64	73.78	86.04	101.01	128.34
C	Glenn (SV)	Summer	2031	388.27	449.67	526.12	670.94	73.79	86.10	101.01	128.47

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Glenn (SV)	Summer	2032	388.27	449.74	526.13	671.26	73.79	86.15	101.01	128.60
C	Glenn (SV)	Summer	2033	388.26	449.81	526.14	671.55	73.80	86.19	101.01	128.71
C	Glenn (SV)	Summer	2034	388.25	449.85	526.14	671.85	73.80	86.23	101.01	128.82
C	Glenn (SV)	Summer	2035	388.24	449.87	526.13	672.11	73.81	86.26	101.01	128.92
C	Glenn (SV)	Winter	2010	335.44	394.64	463.49	577.83	73.80	101.05	102.36	125.05
C	Glenn (SV)	Winter	2011	335.66	393.87	462.51	578.23	73.70	98.07	102.06	125.06
C	Glenn (SV)	Winter	2012	335.89	393.37	461.80	578.79	73.59	95.83	101.82	125.13
C	Glenn (SV)	Winter	2013	336.14	392.94	461.25	579.47	73.54	93.69	101.62	125.27
C	Glenn (SV)	Winter	2014	336.35	392.62	460.83	580.17	73.43	91.83	101.37	125.43
C	Glenn (SV)	Winter	2015	336.56	392.37	460.51	580.92	73.38	90.19	101.22	125.64
C	Glenn (SV)	Winter	2016	336.76	392.17	460.25	581.69	73.41	88.68	101.09	125.88
C	Glenn (SV)	Winter	2017	336.93	392.03	460.06	582.43	73.41	87.43	101.01	126.13
C	Glenn (SV)	Winter	2018	337.06	391.89	459.91	583.06	73.43	86.26	100.91	126.38
C	Glenn (SV)	Winter	2019	337.18	391.86	459.79	583.63	73.46	85.63	100.80	126.62
C	Glenn (SV)	Winter	2020	337.27	391.87	459.70	584.15	73.56	85.43	100.85	126.85
C	Glenn (SV)	Winter	2021	337.33	391.95	459.61	584.51	73.62	85.50	100.90	126.97
C	Glenn (SV)	Winter	2022	337.37	392.02	459.54	584.78	73.68	85.55	100.94	127.04
C	Glenn (SV)	Winter	2023	337.39	392.08	459.47	585.00	73.71	85.61	100.98	127.23
C	Glenn (SV)	Winter	2024	337.39	392.13	459.40	585.17	73.71	85.66	101.00	127.41
C	Glenn (SV)	Winter	2025	337.39	392.20	459.34	585.37	73.72	85.74	101.02	127.59
C	Glenn (SV)	Winter	2026	337.41	392.27	459.27	585.58	73.75	85.81	101.03	127.77
C	Glenn (SV)	Winter	2027	337.42	392.32	459.22	585.80	73.76	85.87	101.03	127.93
C	Glenn (SV)	Winter	2028	337.42	392.39	459.16	586.00	73.77	85.93	101.03	128.07
C	Glenn (SV)	Winter	2029	337.42	392.46	459.10	586.21	73.78	85.99	101.02	128.21
C	Glenn (SV)	Winter	2030	337.42	392.52	459.05	586.42	73.78	86.04	101.01	128.34
C	Glenn (SV)	Winter	2031	337.42	392.58	459.02	586.66	73.79	86.10	101.01	128.47
C	Glenn (SV)	Winter	2032	337.42	392.63	459.00	586.91	73.79	86.15	101.01	128.60
C	Glenn (SV)	Winter	2033	337.41	392.67	458.97	587.13	73.80	86.19	101.01	128.71
C	Glenn (SV)	Winter	2034	337.41	392.71	458.95	587.32	73.80	86.23	101.01	128.82
C	Glenn (SV)	Winter	2035	337.41	392.75	458.94	587.49	73.81	86.26	101.01	128.92
C	Humboldt (NC)	Annual	2010	328.57	377.52	451.16	562.78	72.92	85.59	100.40	123.74
C	Humboldt (NC)	Annual	2011	328.60	377.95	450.57	563.46	72.88	85.26	100.35	123.95
C	Humboldt (NC)	Annual	2012	328.67	378.37	450.10	564.24	72.86	85.04	100.37	124.22
C	Humboldt (NC)	Annual	2013	328.79	378.74	449.73	565.09	72.87	84.87	100.40	124.52
C	Humboldt (NC)	Annual	2014	328.88	379.06	449.44	565.92	72.82	84.72	100.41	124.81
C	Humboldt (NC)	Annual	2015	329.00	379.39	449.21	566.76	72.83	84.63	100.44	125.14
C	Humboldt (NC)	Annual	2016	329.16	379.71	449.03	567.57	72.89	84.61	100.49	125.48
C	Humboldt (NC)	Annual	2017	329.26	379.97	448.88	568.32	72.91	84.54	100.52	125.81
C	Humboldt (NC)	Annual	2018	329.35	380.20	448.76	568.98	72.94	84.52	100.55	126.12
C	Humboldt (NC)	Annual	2019	329.43	380.44	448.67	569.54	72.98	84.60	100.61	126.42
C	Humboldt (NC)	Annual	2020	329.49	380.65	448.59	570.03	73.07	84.71	100.67	126.69
C	Humboldt (NC)	Annual	2021	329.54	380.81	448.52	570.42	73.13	84.84	100.74	126.93
C	Humboldt (NC)	Annual	2022	329.54	380.94	448.44	570.75	73.18	84.95	100.79	127.13
C	Humboldt (NC)	Annual	2023	329.49	381.04	448.37	571.00	73.20	85.06	100.83	127.34
C	Humboldt (NC)	Annual	2024	329.42	381.10	448.30	571.20	73.19	85.15	100.87	127.53
C	Humboldt (NC)	Annual	2025	329.38	381.21	448.25	571.38	73.20	85.25	100.90	127.70
C	Humboldt (NC)	Annual	2026	329.39	381.36	448.19	571.56	73.22	85.36	100.92	127.86
C	Humboldt (NC)	Annual	2027	329.39	381.51	448.13	571.75	73.24	85.47	100.94	128.01
C	Humboldt (NC)	Annual	2028	329.39	381.66	448.08	571.95	73.25	85.56	100.95	128.15
C	Humboldt (NC)	Annual	2029	329.38	381.80	448.02	572.14	73.25	85.65	100.96	128.28
C	Humboldt (NC)	Annual	2030	329.36	381.95	447.93	572.34	73.25	85.74	100.95	128.41
C	Humboldt (NC)	Annual	2031	329.35	382.09	447.90	572.56	73.26	85.82	100.95	128.53
C	Humboldt (NC)	Annual	2032	329.34	382.22	447.86	572.78	73.27	85.90	100.96	128.65
C	Humboldt (NC)	Annual	2033	329.34	382.34	447.84	572.97	73.27	85.97	100.96	128.76

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Humboldt (NC)	Annual	2034	329.33	382.45	447.82	573.15	73.28	86.03	100.97	128.86
C	Humboldt (NC)	Annual	2035	329.32	382.53	447.80	573.30	73.28	86.09	100.97	128.95
C	Humboldt (NC)	Summer	2010	328.37	377.33	450.90	562.46	72.92	85.59	100.40	123.74
C	Humboldt (NC)	Summer	2011	328.40	377.76	450.31	563.15	72.88	85.26	100.35	123.95
C	Humboldt (NC)	Summer	2012	328.47	378.17	449.85	563.92	72.86	85.04	100.37	124.22
C	Humboldt (NC)	Summer	2013	328.60	378.54	449.48	564.78	72.87	84.87	100.40	124.52
C	Humboldt (NC)	Summer	2014	328.68	378.86	449.18	565.60	72.82	84.72	100.41	124.81
C	Humboldt (NC)	Summer	2015	328.81	379.18	448.95	566.44	72.83	84.63	100.44	125.14
C	Humboldt (NC)	Summer	2016	328.96	379.50	448.77	567.25	72.89	84.61	100.49	125.48
C	Humboldt (NC)	Summer	2017	329.06	379.76	448.61	568.00	72.91	84.54	100.52	125.81
C	Humboldt (NC)	Summer	2018	329.15	379.99	448.50	568.65	72.94	84.52	100.55	126.12
C	Humboldt (NC)	Summer	2019	329.23	380.22	448.41	569.21	72.98	84.60	100.61	126.42
C	Humboldt (NC)	Summer	2020	329.30	380.43	448.33	569.70	73.07	84.71	100.67	126.69
C	Humboldt (NC)	Summer	2021	329.34	380.59	448.26	570.09	73.13	84.84	100.74	126.93
C	Humboldt (NC)	Summer	2022	329.34	380.72	448.18	570.42	73.18	84.95	100.79	127.13
C	Humboldt (NC)	Summer	2023	329.30	380.82	448.11	570.67	73.20	85.06	100.83	127.34
C	Humboldt (NC)	Summer	2024	329.22	380.89	448.04	570.87	73.19	85.15	100.87	127.53
C	Humboldt (NC)	Summer	2025	329.18	380.99	447.99	571.05	73.20	85.25	100.90	127.70
C	Humboldt (NC)	Summer	2026	329.19	381.14	447.93	571.23	73.22	85.36	100.92	127.86
C	Humboldt (NC)	Summer	2027	329.20	381.29	447.87	571.42	73.24	85.47	100.94	128.01
C	Humboldt (NC)	Summer	2028	329.19	381.43	447.82	571.62	73.25	85.56	100.95	128.15
C	Humboldt (NC)	Summer	2029	329.18	381.58	447.75	571.81	73.25	85.65	100.96	128.28
C	Humboldt (NC)	Summer	2030	329.16	381.72	447.67	572.00	73.25	85.74	100.95	128.41
C	Humboldt (NC)	Summer	2031	329.15	381.87	447.63	572.23	73.26	85.82	100.95	128.53
C	Humboldt (NC)	Summer	2032	329.15	382.00	447.60	572.45	73.27	85.90	100.96	128.65
C	Humboldt (NC)	Summer	2033	329.14	382.12	447.58	572.64	73.27	85.97	100.96	128.76
C	Humboldt (NC)	Summer	2034	329.13	382.22	447.55	572.81	73.28	86.03	100.97	128.86
C	Humboldt (NC)	Summer	2035	329.13	382.31	447.53	572.97	73.28	86.09	100.97	128.95
C	Humboldt (NC)	Winter	2010	327.32	376.27	449.51	560.73	72.92	85.59	100.40	123.74
C	Humboldt (NC)	Winter	2011	327.34	376.67	448.90	561.41	72.88	85.26	100.35	123.95
C	Humboldt (NC)	Winter	2012	327.40	377.05	448.43	562.18	72.86	85.04	100.37	124.22
C	Humboldt (NC)	Winter	2013	327.52	377.40	448.05	563.02	72.87	84.87	100.40	124.52
C	Humboldt (NC)	Winter	2014	327.59	377.71	447.75	563.84	72.82	84.72	100.41	124.81
C	Humboldt (NC)	Winter	2015	327.71	378.02	447.51	564.67	72.83	84.63	100.44	125.14
C	Humboldt (NC)	Winter	2016	327.86	378.33	447.32	565.46	72.89	84.61	100.49	125.48
C	Humboldt (NC)	Winter	2017	327.97	378.58	447.16	566.20	72.91	84.54	100.52	125.81
C	Humboldt (NC)	Winter	2018	328.06	378.80	447.04	566.84	72.94	84.52	100.55	126.12
C	Humboldt (NC)	Winter	2019	328.14	379.03	446.95	567.40	72.98	84.60	100.61	126.42
C	Humboldt (NC)	Winter	2020	328.20	379.23	446.88	567.88	73.07	84.71	100.67	126.69
C	Humboldt (NC)	Winter	2021	328.25	379.39	446.80	568.27	73.13	84.84	100.74	126.93
C	Humboldt (NC)	Winter	2022	328.25	379.51	446.73	568.60	73.18	84.95	100.79	127.13
C	Humboldt (NC)	Winter	2023	328.20	379.61	446.65	568.84	73.20	85.06	100.83	127.34
C	Humboldt (NC)	Winter	2024	328.13	379.67	446.58	569.04	73.19	85.15	100.87	127.53
C	Humboldt (NC)	Winter	2025	328.09	379.77	446.53	569.21	73.20	85.25	100.90	127.70
C	Humboldt (NC)	Winter	2026	328.10	379.92	446.47	569.40	73.22	85.36	100.92	127.86
C	Humboldt (NC)	Winter	2027	328.10	380.06	446.42	569.59	73.24	85.47	100.94	128.01
C	Humboldt (NC)	Winter	2028	328.10	380.21	446.36	569.78	73.25	85.56	100.95	128.15
C	Humboldt (NC)	Winter	2029	328.08	380.35	446.30	569.97	73.25	85.65	100.96	128.28
C	Humboldt (NC)	Winter	2030	328.06	380.49	446.22	570.17	73.25	85.74	100.95	128.41
C	Humboldt (NC)	Winter	2031	328.06	380.63	446.18	570.39	73.26	85.82	100.95	128.53
C	Humboldt (NC)	Winter	2032	328.05	380.76	446.14	570.61	73.27	85.90	100.96	128.65
C	Humboldt (NC)	Winter	2033	328.04	380.88	446.12	570.80	73.27	85.97	100.96	128.76
C	Humboldt (NC)	Winter	2034	328.04	380.98	446.10	570.97	73.28	86.03	100.97	128.86
C	Humboldt (NC)	Winter	2035	328.03	381.07	446.08	571.12	73.28	86.09	100.97	128.95

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Imperial (SS)	Annual	2010	333.06	382.51	456.21	575.78	72.99	86.06	100.65	125.48
C	Imperial (SS)	Annual	2011	332.74	382.65	455.12	575.21	73.04	85.73	100.60	125.71
C	Imperial (SS)	Annual	2012	333.03	383.36	454.93	575.79	73.14	85.50	100.60	125.97
C	Imperial (SS)	Annual	2013	331.75	382.30	452.68	573.90	73.23	85.37	100.58	126.29
C	Imperial (SS)	Annual	2014	331.98	382.91	452.61	574.66	73.31	85.29	100.59	126.61
C	Imperial (SS)	Annual	2015	327.26	377.77	445.90	566.93	73.39	85.24	100.62	126.91
C	Imperial (SS)	Annual	2016	327.36	378.16	445.86	567.56	73.41	85.18	100.65	127.20
C	Imperial (SS)	Annual	2017	327.39	378.50	445.81	568.11	73.41	85.15	100.65	127.47
C	Imperial (SS)	Annual	2018	327.40	378.76	445.76	568.55	73.39	85.16	100.65	127.71
C	Imperial (SS)	Annual	2019	327.23	378.80	445.47	568.62	73.39	85.24	100.69	127.93
C	Imperial (SS)	Annual	2020	327.21	379.01	445.41	568.92	73.41	85.34	100.76	128.13
C	Imperial (SS)	Annual	2021	327.15	379.11	445.34	569.08	73.42	85.44	100.80	128.28
C	Imperial (SS)	Annual	2022	327.03	379.19	445.26	569.20	73.39	85.52	100.84	128.40
C	Imperial (SS)	Annual	2023	326.91	379.26	445.18	569.30	73.35	85.60	100.87	128.53
C	Imperial (SS)	Annual	2024	329.56	382.51	448.87	574.16	73.32	85.66	100.89	128.63
C	Imperial (SS)	Annual	2025	329.46	382.58	448.83	574.22	73.28	85.73	100.92	128.73
C	Imperial (SS)	Annual	2026	329.42	382.67	448.77	574.27	73.26	85.80	100.94	128.82
C	Imperial (SS)	Annual	2027	329.39	382.76	448.73	574.32	73.24	85.86	100.95	128.90
C	Imperial (SS)	Annual	2028	329.37	382.86	448.71	574.39	73.23	85.92	100.96	128.97
C	Imperial (SS)	Annual	2029	329.36	382.96	448.68	574.47	73.21	85.97	100.96	129.04
C	Imperial (SS)	Annual	2030	329.34	383.07	448.66	574.55	73.20	86.02	100.97	129.10
C	Imperial (SS)	Annual	2031	329.66	383.57	449.13	575.24	73.19	86.07	100.97	129.15
C	Imperial (SS)	Annual	2032	329.64	383.67	449.12	575.31	73.18	86.11	100.97	129.21
C	Imperial (SS)	Annual	2033	329.63	383.75	449.11	575.38	73.18	86.15	100.98	129.26
C	Imperial (SS)	Annual	2034	329.63	383.82	449.11	575.45	73.18	86.19	100.98	129.30
C	Imperial (SS)	Annual	2035	329.62	383.88	449.10	575.52	73.18	86.22	100.98	129.34
C	Imperial (SS)	Summer	2010	341.49	391.06	467.38	590.08	72.99	86.06	100.65	125.48
C	Imperial (SS)	Summer	2011	341.29	391.47	466.40	589.55	73.04	85.73	100.60	125.71
C	Imperial (SS)	Summer	2012	341.64	392.37	466.28	590.14	73.14	85.50	100.60	125.97
C	Imperial (SS)	Summer	2013	340.37	391.46	464.05	588.24	73.23	85.37	100.58	126.29
C	Imperial (SS)	Summer	2014	340.64	392.20	464.05	589.07	73.31	85.29	100.59	126.61
C	Imperial (SS)	Summer	2015	335.82	387.05	457.23	581.20	73.39	85.24	100.62	126.91
C	Imperial (SS)	Summer	2016	335.93	387.53	457.23	581.90	73.41	85.18	100.65	127.20
C	Imperial (SS)	Summer	2017	335.98	387.93	457.21	582.52	73.41	85.15	100.65	127.47
C	Imperial (SS)	Summer	2018	335.99	388.23	457.17	583.00	73.39	85.16	100.65	127.71
C	Imperial (SS)	Summer	2019	335.83	388.32	456.89	583.10	73.39	85.24	100.69	127.93
C	Imperial (SS)	Summer	2020	335.80	388.55	456.83	583.42	73.41	85.34	100.76	128.13
C	Imperial (SS)	Summer	2021	335.69	388.62	456.70	583.51	73.42	85.44	100.80	128.28
C	Imperial (SS)	Summer	2022	335.56	388.70	456.60	583.62	73.39	85.52	100.84	128.40
C	Imperial (SS)	Summer	2023	335.42	388.78	456.51	583.70	73.35	85.60	100.87	128.53
C	Imperial (SS)	Summer	2024	338.10	392.07	460.23	588.61	73.32	85.66	100.89	128.63
C	Imperial (SS)	Summer	2025	338.00	392.15	460.18	588.66	73.28	85.73	100.92	128.73
C	Imperial (SS)	Summer	2026	337.95	392.24	460.11	588.69	73.26	85.80	100.94	128.82
C	Imperial (SS)	Summer	2027	337.92	392.33	460.07	588.73	73.24	85.86	100.95	128.90
C	Imperial (SS)	Summer	2028	337.91	392.44	460.04	588.80	73.23	85.92	100.96	128.97
C	Imperial (SS)	Summer	2029	337.90	392.56	460.02	588.88	73.21	85.97	100.96	129.04
C	Imperial (SS)	Summer	2030	337.89	392.68	460.00	588.96	73.20	86.02	100.97	129.10
C	Imperial (SS)	Summer	2031	338.20	393.18	460.46	589.62	73.19	86.07	100.97	129.15
C	Imperial (SS)	Summer	2032	338.17	393.28	460.45	589.69	73.18	86.11	100.97	129.21
C	Imperial (SS)	Summer	2033	338.16	393.37	460.44	589.76	73.18	86.15	100.98	129.26
C	Imperial (SS)	Summer	2034	338.16	393.45	460.44	589.84	73.18	86.19	100.98	129.30
C	Imperial (SS)	Summer	2035	338.15	393.51	460.44	589.91	73.18	86.22	100.98	129.34
C	Imperial (SS)	Winter	2010	314.45	363.62	431.53	544.19	72.99	86.06	100.65	125.48
C	Imperial (SS)	Winter	2011	313.97	363.27	430.33	543.72	73.04	85.73	100.60	125.71

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Imperial (SS)	Winter	2012	314.13	363.55	430.01	544.27	73.14	85.50	100.60	125.97
C	Imperial (SS)	Winter	2013	312.79	362.16	427.68	542.37	73.23	85.37	100.58	126.29
C	Imperial (SS)	Winter	2014	312.93	362.45	427.46	542.97	73.31	85.29	100.59	126.61
C	Imperial (SS)	Winter	2015	308.44	357.38	421.00	535.54	73.39	85.24	100.62	126.91
C	Imperial (SS)	Winter	2016	308.50	357.58	420.87	536.02	73.41	85.18	100.65	127.20
C	Imperial (SS)	Winter	2017	308.52	357.77	420.75	536.45	73.41	85.15	100.65	127.47
C	Imperial (SS)	Winter	2018	308.53	357.93	420.67	536.81	73.39	85.16	100.65	127.71
C	Imperial (SS)	Winter	2019	308.38	357.91	420.39	536.83	73.39	85.24	100.69	127.93
C	Imperial (SS)	Winter	2020	308.36	358.06	420.34	537.09	73.41	85.34	100.76	128.13
C	Imperial (SS)	Winter	2021	308.33	358.16	420.31	537.29	73.42	85.44	100.80	128.28
C	Imperial (SS)	Winter	2022	308.24	358.22	420.27	537.43	73.39	85.52	100.84	128.40
C	Imperial (SS)	Winter	2023	308.13	358.28	420.22	537.54	73.35	85.60	100.87	128.53
C	Imperial (SS)	Winter	2024	310.65	361.33	423.72	542.17	73.32	85.66	100.89	128.63
C	Imperial (SS)	Winter	2025	310.55	361.39	423.70	542.25	73.28	85.73	100.92	128.73
C	Imperial (SS)	Winter	2026	310.52	361.47	423.66	542.33	73.26	85.80	100.94	128.82
C	Imperial (SS)	Winter	2027	310.48	361.55	423.63	542.41	73.24	85.86	100.95	128.90
C	Imperial (SS)	Winter	2028	310.46	361.64	423.61	542.49	73.23	85.92	100.96	128.97
C	Imperial (SS)	Winter	2029	310.44	361.71	423.57	542.57	73.21	85.97	100.96	129.04
C	Imperial (SS)	Winter	2030	310.42	361.79	423.54	542.64	73.20	86.02	100.97	129.10
C	Imperial (SS)	Winter	2031	310.73	362.26	423.98	543.31	73.19	86.07	100.97	129.15
C	Imperial (SS)	Winter	2032	310.71	362.33	423.97	543.39	73.18	86.11	100.97	129.21
C	Imperial (SS)	Winter	2033	310.71	362.40	423.97	543.46	73.18	86.15	100.98	129.26
C	Imperial (SS)	Winter	2034	310.70	362.46	423.96	543.52	73.18	86.19	100.98	129.30
C	Imperial (SS)	Winter	2035	310.70	362.51	423.95	543.58	73.18	86.22	100.98	129.34
C	Inyo (GBV)	Annual	2010	356.66	415.27	486.92	609.08	74.86	92.72	102.09	125.24
C	Inyo (GBV)	Annual	2011	356.50	414.78	486.39	609.72	74.57	91.41	101.86	125.33
C	Inyo (GBV)	Annual	2012	356.50	414.32	485.97	610.47	74.43	90.24	101.67	125.47
C	Inyo (GBV)	Annual	2013	356.41	413.93	485.65	611.26	74.15	89.28	101.48	125.65
C	Inyo (GBV)	Annual	2014	356.31	413.56	485.39	612.03	73.85	88.38	101.20	125.84
C	Inyo (GBV)	Annual	2015	356.32	413.22	485.18	612.87	73.72	87.54	101.16	126.06
C	Inyo (GBV)	Annual	2016	356.43	413.02	485.02	613.71	73.74	86.96	101.06	126.28
C	Inyo (GBV)	Annual	2017	356.44	412.83	484.88	614.47	73.66	86.43	100.99	126.51
C	Inyo (GBV)	Annual	2018	356.41	412.64	484.77	615.10	73.56	85.95	100.90	126.74
C	Inyo (GBV)	Annual	2019	356.43	412.52	484.66	615.66	73.55	85.62	100.82	126.95
C	Inyo (GBV)	Annual	2020	356.41	412.45	484.57	616.15	73.60	85.52	100.83	127.15
C	Inyo (GBV)	Annual	2021	356.36	412.35	484.47	616.45	73.62	85.52	100.87	127.29
C	Inyo (GBV)	Annual	2022	356.25	412.28	484.37	616.71	73.62	85.52	100.90	127.41
C	Inyo (GBV)	Annual	2023	356.15	412.19	484.26	616.90	73.62	85.53	100.92	127.57
C	Inyo (GBV)	Annual	2024	356.06	412.13	484.17	617.04	73.61	85.55	100.93	127.72
C	Inyo (GBV)	Annual	2025	355.99	412.20	484.11	617.17	73.61	85.62	100.96	127.86
C	Inyo (GBV)	Annual	2026	356.00	412.34	484.04	617.36	73.63	85.70	100.98	128.02
C	Inyo (GBV)	Annual	2027	356.00	412.49	483.97	617.56	73.64	85.78	101.00	128.16
C	Inyo (GBV)	Annual	2028	355.99	412.64	483.91	617.74	73.64	85.86	101.00	128.29
C	Inyo (GBV)	Annual	2029	355.98	412.78	483.84	617.93	73.65	85.93	101.01	128.40
C	Inyo (GBV)	Annual	2030	355.96	412.92	483.77	618.12	73.65	85.99	101.00	128.52
C	Inyo (GBV)	Annual	2031	355.95	413.07	483.74	618.34	73.65	86.06	101.01	128.63
C	Inyo (GBV)	Annual	2032	355.94	413.20	483.70	618.56	73.66	86.12	101.01	128.75
C	Inyo (GBV)	Annual	2033	355.94	413.32	483.67	618.76	73.66	86.17	101.01	128.85
C	Inyo (GBV)	Annual	2034	355.93	413.42	483.64	618.94	73.67	86.22	101.02	128.94
C	Inyo (GBV)	Annual	2035	355.93	413.51	483.62	619.10	73.67	86.27	101.02	129.02
C	Inyo (GBV)	Summer	2010	381.10	438.56	518.79	649.11	74.86	92.72	102.09	125.24
C	Inyo (GBV)	Summer	2011	381.22	438.92	518.54	649.84	74.57	91.41	101.86	125.33
C	Inyo (GBV)	Summer	2012	381.40	439.18	518.36	650.75	74.43	90.24	101.67	125.47
C	Inyo (GBV)	Summer	2013	381.47	439.37	518.27	651.73	74.15	89.28	101.48	125.65

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Inyo (GBV)	Summer	2014	381.49	439.47	518.25	652.71	73.85	88.38	101.20	125.84
C	Inyo (GBV)	Summer	2015	381.58	439.58	518.19	653.82	73.72	87.54	101.16	126.06
C	Inyo (GBV)	Summer	2016	381.72	439.71	518.18	654.92	73.74	86.96	101.06	126.28
C	Inyo (GBV)	Summer	2017	381.76	439.81	518.15	655.93	73.66	86.43	100.99	126.51
C	Inyo (GBV)	Summer	2018	381.73	439.85	518.11	656.75	73.56	85.95	100.90	126.74
C	Inyo (GBV)	Summer	2019	381.76	439.93	518.07	657.48	73.55	85.62	100.82	126.95
C	Inyo (GBV)	Summer	2020	381.74	440.02	518.02	658.12	73.60	85.52	100.83	127.15
C	Inyo (GBV)	Summer	2021	381.69	440.06	517.94	658.52	73.62	85.52	100.87	127.29
C	Inyo (GBV)	Summer	2022	381.59	440.10	517.85	658.87	73.62	85.52	100.90	127.41
C	Inyo (GBV)	Summer	2023	381.50	440.13	517.78	659.12	73.62	85.53	100.92	127.57
C	Inyo (GBV)	Summer	2024	381.41	440.18	517.72	659.32	73.61	85.55	100.93	127.72
C	Inyo (GBV)	Summer	2025	381.36	440.29	517.67	659.49	73.61	85.62	100.96	127.86
C	Inyo (GBV)	Summer	2026	381.37	440.49	517.60	659.72	73.63	85.70	100.98	128.02
C	Inyo (GBV)	Summer	2027	381.38	440.72	517.54	659.94	73.64	85.78	101.00	128.16
C	Inyo (GBV)	Summer	2028	381.39	440.92	517.49	660.17	73.64	85.86	101.00	128.29
C	Inyo (GBV)	Summer	2029	381.39	441.13	517.43	660.40	73.65	85.93	101.01	128.40
C	Inyo (GBV)	Summer	2030	381.38	441.32	517.38	660.64	73.65	85.99	101.00	128.52
C	Inyo (GBV)	Summer	2031	381.38	441.54	517.35	660.90	73.65	86.06	101.01	128.63
C	Inyo (GBV)	Summer	2032	381.38	441.71	517.32	661.15	73.66	86.12	101.01	128.75
C	Inyo (GBV)	Summer	2033	381.37	441.88	517.29	661.39	73.66	86.17	101.01	128.85
C	Inyo (GBV)	Summer	2034	381.37	442.01	517.27	661.61	73.67	86.22	101.02	128.94
C	Inyo (GBV)	Summer	2035	381.36	442.11	517.25	661.80	73.67	86.27	101.02	129.02
C	Inyo (GBV)	Winter	2010	379.51	437.04	516.71	646.50	74.86	92.72	102.09	125.24
C	Inyo (GBV)	Winter	2011	379.61	437.35	516.44	647.23	74.57	91.41	101.86	125.33
C	Inyo (GBV)	Winter	2012	379.78	437.56	516.26	648.13	74.43	90.24	101.67	125.47
C	Inyo (GBV)	Winter	2013	379.84	437.71	516.14	649.10	74.15	89.28	101.48	125.65
C	Inyo (GBV)	Winter	2014	379.85	437.79	516.11	650.06	73.85	88.38	101.20	125.84
C	Inyo (GBV)	Winter	2015	379.93	437.87	516.04	651.15	73.72	87.54	101.16	126.06
C	Inyo (GBV)	Winter	2016	380.08	437.97	516.02	652.24	73.74	86.96	101.06	126.28
C	Inyo (GBV)	Winter	2017	380.11	438.05	515.98	653.23	73.66	86.43	100.99	126.51
C	Inyo (GBV)	Winter	2018	380.09	438.08	515.94	654.04	73.56	85.95	100.90	126.74
C	Inyo (GBV)	Winter	2019	380.11	438.15	515.90	654.76	73.55	85.62	100.82	126.95
C	Inyo (GBV)	Winter	2020	380.09	438.23	515.84	655.39	73.60	85.52	100.83	127.15
C	Inyo (GBV)	Winter	2021	380.04	438.26	515.76	655.79	73.62	85.52	100.87	127.29
C	Inyo (GBV)	Winter	2022	379.94	438.29	515.68	656.13	73.62	85.52	100.90	127.41
C	Inyo (GBV)	Winter	2023	379.85	438.32	515.60	656.37	73.62	85.53	100.92	127.57
C	Inyo (GBV)	Winter	2024	379.76	438.35	515.54	656.57	73.61	85.55	100.93	127.72
C	Inyo (GBV)	Winter	2025	379.71	438.46	515.49	656.74	73.61	85.62	100.96	127.86
C	Inyo (GBV)	Winter	2026	379.72	438.66	515.42	656.96	73.63	85.70	100.98	128.02
C	Inyo (GBV)	Winter	2027	379.73	438.88	515.36	657.18	73.64	85.78	101.00	128.16
C	Inyo (GBV)	Winter	2028	379.73	439.08	515.30	657.41	73.64	85.86	101.00	128.29
C	Inyo (GBV)	Winter	2029	379.73	439.29	515.25	657.64	73.65	85.93	101.01	128.40
C	Inyo (GBV)	Winter	2030	379.72	439.47	515.19	657.87	73.65	85.99	101.00	128.52
C	Inyo (GBV)	Winter	2031	379.72	439.68	515.16	658.13	73.65	86.06	101.01	128.63
C	Inyo (GBV)	Winter	2032	379.72	439.86	515.13	658.38	73.66	86.12	101.01	128.75
C	Inyo (GBV)	Winter	2033	379.72	440.02	515.11	658.62	73.66	86.17	101.01	128.85
C	Inyo (GBV)	Winter	2034	379.71	440.15	515.08	658.83	73.67	86.22	101.02	128.94
C	Inyo (GBV)	Winter	2035	379.71	440.25	515.06	659.02	73.67	86.27	101.02	129.02
C	Kern (MD)	Annual	2010	336.08	392.10	460.74	577.53	74.06	93.66	100.99	125.79
C	Kern (MD)	Annual	2011	336.60	392.15	460.74	578.88	73.94	91.90	100.87	125.91
C	Kern (MD)	Annual	2012	336.72	391.78	460.32	579.53	73.83	90.38	100.77	126.04
C	Kern (MD)	Annual	2013	336.85	391.46	460.00	580.23	73.76	89.06	100.75	126.20
C	Kern (MD)	Annual	2014	336.97	391.23	459.75	580.93	73.68	88.03	100.72	126.38
C	Kern (MD)	Annual	2015	337.07	391.05	459.55	581.63	73.61	87.19	100.70	126.58

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Kern (MD)	Annual	2016	337.08	390.85	459.24	582.18	73.59	86.61	100.72	126.80
C	Kern (MD)	Annual	2017	337.18	390.73	459.10	582.87	73.57	85.95	100.70	127.03
C	Kern (MD)	Annual	2018	337.24	390.67	458.98	583.45	73.54	85.51	100.67	127.24
C	Kern (MD)	Annual	2019	337.31	390.73	458.89	583.95	73.55	85.38	100.69	127.44
C	Kern (MD)	Annual	2020	337.37	390.79	458.81	584.40	73.62	85.36	100.74	127.63
C	Kern (MD)	Annual	2021	338.50	392.19	460.25	586.62	73.68	85.47	100.80	127.74
C	Kern (MD)	Annual	2022	338.52	392.29	460.18	586.87	73.72	85.56	100.85	127.82
C	Kern (MD)	Annual	2023	338.51	392.38	460.12	587.07	73.75	85.64	100.89	127.98
C	Kern (MD)	Annual	2024	338.48	392.46	460.06	587.20	73.76	85.71	100.92	128.12
C	Kern (MD)	Annual	2025	338.48	392.53	460.01	587.35	73.78	85.78	100.95	128.26
C	Kern (MD)	Annual	2026	338.50	392.63	459.97	587.56	73.79	85.84	100.97	128.40
C	Kern (MD)	Annual	2027	338.52	392.72	459.92	587.75	73.81	85.90	100.98	128.53
C	Kern (MD)	Annual	2028	338.53	392.80	459.88	587.93	73.82	85.95	100.99	128.65
C	Kern (MD)	Annual	2029	338.53	392.88	459.83	588.10	73.82	86.00	100.99	128.75
C	Kern (MD)	Annual	2030	338.52	392.95	459.78	588.27	73.82	86.04	100.98	128.85
C	Kern (MD)	Annual	2031	338.52	393.02	459.75	588.42	73.83	86.08	100.99	128.94
C	Kern (MD)	Annual	2032	338.52	393.08	459.73	588.57	73.83	86.12	100.99	129.02
C	Kern (MD)	Annual	2033	338.52	393.13	459.71	588.70	73.84	86.16	100.99	129.09
C	Kern (MD)	Annual	2034	338.52	393.17	459.69	588.81	73.84	86.19	101.00	129.16
C	Kern (MD)	Annual	2035	338.52	393.20	459.67	588.91	73.84	86.21	101.00	129.22
C	Kern (MD)	Summer	2010	370.45	428.06	505.41	634.10	74.06	93.66	100.99	125.79
C	Kern (MD)	Summer	2011	371.25	428.88	505.98	635.59	73.94	91.90	100.87	125.91
C	Kern (MD)	Summer	2012	371.53	429.08	505.93	636.35	73.83	90.38	100.77	126.04
C	Kern (MD)	Summer	2013	371.80	429.22	505.88	637.24	73.76	89.06	100.75	126.20
C	Kern (MD)	Summer	2014	372.02	429.32	505.86	638.18	73.68	88.03	100.72	126.38
C	Kern (MD)	Summer	2015	372.21	429.42	505.83	639.13	73.61	87.19	100.70	126.58
C	Kern (MD)	Summer	2016	372.30	429.42	505.66	640.02	73.59	86.61	100.72	126.80
C	Kern (MD)	Summer	2017	372.46	429.55	505.63	641.01	73.57	85.95	100.70	127.03
C	Kern (MD)	Summer	2018	372.55	429.66	505.57	641.83	73.54	85.51	100.67	127.24
C	Kern (MD)	Summer	2019	372.63	429.83	505.50	642.53	73.55	85.38	100.69	127.44
C	Kern (MD)	Summer	2020	372.70	430.00	505.43	643.14	73.62	85.36	100.74	127.63
C	Kern (MD)	Summer	2021	373.95	431.58	507.02	645.71	73.68	85.47	100.80	127.74
C	Kern (MD)	Summer	2022	373.96	431.73	506.96	646.06	73.72	85.56	100.85	127.82
C	Kern (MD)	Summer	2023	373.95	431.88	506.89	646.33	73.75	85.64	100.89	127.98
C	Kern (MD)	Summer	2024	373.93	431.99	506.83	646.50	73.76	85.71	100.92	128.12
C	Kern (MD)	Summer	2025	373.93	432.11	506.78	646.66	73.78	85.78	100.95	128.26
C	Kern (MD)	Summer	2026	373.97	432.28	506.79	646.94	73.79	85.84	100.97	128.40
C	Kern (MD)	Summer	2027	374.00	432.43	506.79	647.19	73.81	85.90	100.98	128.53
C	Kern (MD)	Summer	2028	374.02	432.56	506.79	647.41	73.82	85.95	100.99	128.65
C	Kern (MD)	Summer	2029	374.04	432.69	506.77	647.62	73.82	86.00	100.99	128.75
C	Kern (MD)	Summer	2030	374.04	432.80	506.75	647.82	73.82	86.04	100.98	128.85
C	Kern (MD)	Summer	2031	374.04	432.90	506.73	647.98	73.83	86.08	100.99	128.94
C	Kern (MD)	Summer	2032	374.04	432.98	506.71	648.14	73.83	86.12	100.99	129.02
C	Kern (MD)	Summer	2033	374.04	433.05	506.68	648.28	73.84	86.16	100.99	129.09
C	Kern (MD)	Summer	2034	374.04	433.09	506.66	648.41	73.84	86.19	101.00	129.16
C	Kern (MD)	Summer	2035	374.03	433.12	506.63	648.53	73.84	86.21	101.00	129.22
C	Kern (MD)	Winter	2010	325.30	380.82	446.72	559.78	74.06	93.66	100.99	125.79
C	Kern (MD)	Winter	2011	325.73	380.63	446.54	561.09	73.94	91.90	100.87	125.91
C	Kern (MD)	Winter	2012	325.80	380.08	446.01	561.70	73.83	90.38	100.77	126.04
C	Kern (MD)	Winter	2013	325.89	379.61	445.61	562.35	73.76	89.06	100.75	126.20
C	Kern (MD)	Winter	2014	325.97	379.28	445.29	562.97	73.68	88.03	100.72	126.38
C	Kern (MD)	Winter	2015	326.05	379.02	445.03	563.59	73.61	87.19	100.70	126.58
C	Kern (MD)	Winter	2016	326.03	378.75	444.68	564.04	73.59	86.61	100.72	126.80
C	Kern (MD)	Winter	2017	326.12	378.55	444.51	564.64	73.57	85.95	100.70	127.03

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Kern (MD)	Winter	2018	326.17	378.44	444.37	565.14	73.54	85.51	100.67	127.24
C	Kern (MD)	Winter	2019	326.23	378.47	444.27	565.58	73.55	85.38	100.69	127.44
C	Kern (MD)	Winter	2020	326.29	378.49	444.19	565.97	73.62	85.36	100.74	127.63
C	Kern (MD)	Winter	2021	327.38	379.84	445.58	568.09	73.68	85.47	100.80	127.74
C	Kern (MD)	Winter	2022	327.40	379.92	445.51	568.30	73.72	85.56	100.85	127.82
C	Kern (MD)	Winter	2023	327.39	379.99	445.45	568.48	73.75	85.64	100.89	127.98
C	Kern (MD)	Winter	2024	327.36	380.05	445.39	568.60	73.76	85.71	100.92	128.12
C	Kern (MD)	Winter	2025	327.36	380.12	445.34	568.75	73.78	85.78	100.95	128.26
C	Kern (MD)	Winter	2026	327.38	380.19	445.29	568.94	73.79	85.84	100.97	128.40
C	Kern (MD)	Winter	2027	327.39	380.27	445.22	569.11	73.81	85.90	100.98	128.53
C	Kern (MD)	Winter	2028	327.39	380.33	445.17	569.28	73.82	85.95	100.99	128.65
C	Kern (MD)	Winter	2029	327.39	380.39	445.11	569.43	73.82	86.00	100.99	128.75
C	Kern (MD)	Winter	2030	327.38	380.45	445.05	569.59	73.82	86.04	100.98	128.85
C	Kern (MD)	Winter	2031	327.38	380.51	445.02	569.73	73.83	86.08	100.99	128.94
C	Kern (MD)	Winter	2032	327.38	380.56	445.00	569.88	73.83	86.12	100.99	129.02
C	Kern (MD)	Winter	2033	327.38	380.61	444.98	570.01	73.84	86.16	100.99	129.09
C	Kern (MD)	Winter	2034	327.38	380.65	444.96	570.12	73.84	86.19	101.00	129.16
C	Kern (MD)	Winter	2035	327.38	380.68	444.94	570.22	73.84	86.21	101.00	129.22
C	Kern (SJV)	Annual	2010	372.18	426.19	509.12	641.67	73.42	84.89	100.24	125.09
C	Kern (SJV)	Annual	2011	372.44	427.30	508.94	642.35	73.43	84.72	100.24	125.33
C	Kern (SJV)	Annual	2012	372.69	428.18	508.79	643.02	73.45	84.62	100.27	125.57
C	Kern (SJV)	Annual	2013	372.35	428.23	507.88	642.72	73.49	84.53	100.30	125.82
C	Kern (SJV)	Annual	2014	372.56	428.86	507.81	643.44	73.51	84.49	100.33	126.07
C	Kern (SJV)	Annual	2015	373.51	430.29	508.76	645.47	73.56	84.48	100.37	126.34
C	Kern (SJV)	Annual	2016	373.71	430.80	508.73	646.20	73.62	84.50	100.43	126.61
C	Kern (SJV)	Annual	2017	373.86	431.24	508.70	646.89	73.66	84.50	100.45	126.87
C	Kern (SJV)	Annual	2018	373.04	430.53	507.39	645.86	73.69	84.54	100.48	127.12
C	Kern (SJV)	Annual	2019	373.15	430.90	507.37	646.40	73.74	84.68	100.53	127.34
C	Kern (SJV)	Annual	2020	373.24	431.23	507.35	646.87	73.83	84.85	100.60	127.55
C	Kern (SJV)	Annual	2021	373.14	431.29	507.08	646.94	73.89	85.01	100.67	127.72
C	Kern (SJV)	Annual	2022	373.18	431.51	507.05	647.25	73.94	85.15	100.74	127.87
C	Kern (SJV)	Annual	2023	373.19	431.70	507.02	647.49	73.97	85.27	100.79	128.04
C	Kern (SJV)	Annual	2024	373.41	432.15	507.32	648.08	73.99	85.38	100.83	128.18
C	Kern (SJV)	Annual	2025	373.41	432.31	507.30	648.26	74.01	85.48	100.87	128.32
C	Kern (SJV)	Annual	2026	371.83	430.65	505.11	645.67	74.03	85.58	100.89	128.45
C	Kern (SJV)	Annual	2027	371.84	430.82	505.09	645.83	74.04	85.67	100.92	128.57
C	Kern (SJV)	Annual	2028	371.85	430.99	505.08	645.99	74.05	85.75	100.93	128.67
C	Kern (SJV)	Annual	2029	371.85	431.15	505.06	646.15	74.05	85.83	100.94	128.77
C	Kern (SJV)	Annual	2030	371.85	431.30	505.04	646.31	74.06	85.90	100.95	128.86
C	Kern (SJV)	Annual	2031	371.85	431.44	505.03	646.46	74.06	85.96	100.96	128.95
C	Kern (SJV)	Annual	2032	371.85	431.57	505.02	646.61	74.07	86.03	100.96	129.03
C	Kern (SJV)	Annual	2033	371.85	431.68	505.01	646.74	74.07	86.08	100.97	129.10
C	Kern (SJV)	Annual	2034	371.85	431.78	505.00	646.87	74.07	86.13	100.97	129.16
C	Kern (SJV)	Annual	2035	371.84	431.85	504.99	646.98	74.07	86.18	100.98	129.22
C	Kern (SJV)	Summer	2010	412.69	467.79	562.40	709.14	73.42	84.89	100.24	125.09
C	Kern (SJV)	Summer	2011	413.18	469.85	562.48	709.74	73.43	84.72	100.24	125.33
C	Kern (SJV)	Summer	2012	413.59	471.41	562.52	710.40	73.45	84.62	100.27	125.57
C	Kern (SJV)	Summer	2013	413.29	471.91	561.69	710.05	73.49	84.53	100.30	125.82
C	Kern (SJV)	Summer	2014	413.60	472.94	561.79	710.92	73.51	84.49	100.33	126.07
C	Kern (SJV)	Summer	2015	414.72	474.79	563.00	713.30	73.56	84.48	100.37	126.34
C	Kern (SJV)	Summer	2016	414.99	475.56	563.10	714.28	73.62	84.50	100.43	126.61
C	Kern (SJV)	Summer	2017	415.18	476.21	563.17	715.20	73.66	84.50	100.45	126.87
C	Kern (SJV)	Summer	2018	414.27	475.56	561.78	714.21	73.69	84.54	100.48	127.12
C	Kern (SJV)	Summer	2019	414.39	476.05	561.78	714.92	73.74	84.68	100.53	127.34

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Kern (SJV)	Summer	2020	414.49	476.49	561.77	715.54	73.83	84.85	100.60	127.55
C	Kern (SJV)	Summer	2021	414.38	476.59	561.45	715.68	73.89	85.01	100.67	127.72
C	Kern (SJV)	Summer	2022	414.42	476.88	561.40	716.07	73.94	85.15	100.74	127.87
C	Kern (SJV)	Summer	2023	414.43	477.14	561.35	716.37	73.97	85.27	100.79	128.04
C	Kern (SJV)	Summer	2024	414.68	477.72	561.68	717.04	73.99	85.38	100.83	128.18
C	Kern (SJV)	Summer	2025	414.69	477.97	561.66	717.23	74.01	85.48	100.87	128.32
C	Kern (SJV)	Summer	2026	412.93	476.21	559.25	714.34	74.03	85.58	100.89	128.45
C	Kern (SJV)	Summer	2027	412.94	476.48	559.24	714.51	74.04	85.67	100.92	128.57
C	Kern (SJV)	Summer	2028	412.95	476.73	559.24	714.67	74.05	85.75	100.93	128.67
C	Kern (SJV)	Summer	2029	412.96	476.98	559.23	714.83	74.05	85.83	100.94	128.77
C	Kern (SJV)	Summer	2030	412.96	477.21	559.23	715.00	74.06	85.90	100.95	128.86
C	Kern (SJV)	Summer	2031	412.96	477.42	559.21	715.15	74.06	85.96	100.96	128.95
C	Kern (SJV)	Summer	2032	412.95	477.60	559.19	715.31	74.07	86.03	100.96	129.03
C	Kern (SJV)	Summer	2033	412.95	477.75	559.18	715.46	74.07	86.08	100.97	129.10
C	Kern (SJV)	Summer	2034	412.95	477.86	559.17	715.61	74.07	86.13	100.97	129.16
C	Kern (SJV)	Summer	2035	412.95	477.95	559.16	715.75	74.07	86.18	100.98	129.22
C	Kern (SJV)	Winter	2010	356.46	410.05	488.44	615.49	73.42	84.89	100.24	125.09
C	Kern (SJV)	Winter	2011	356.63	410.79	488.16	616.20	73.43	84.72	100.24	125.33
C	Kern (SJV)	Winter	2012	356.82	411.41	487.95	616.88	73.45	84.62	100.27	125.57
C	Kern (SJV)	Winter	2013	356.46	411.28	487.00	616.59	73.49	84.53	100.30	125.82
C	Kern (SJV)	Winter	2014	356.64	411.75	486.87	617.26	73.51	84.49	100.33	126.07
C	Kern (SJV)	Winter	2015	357.52	413.02	487.71	619.15	73.56	84.48	100.37	126.34
C	Kern (SJV)	Winter	2016	357.70	413.43	487.64	619.79	73.62	84.50	100.43	126.61
C	Kern (SJV)	Winter	2017	357.83	413.79	487.57	620.38	73.66	84.50	100.45	126.87
C	Kern (SJV)	Winter	2018	357.04	413.06	486.29	619.34	73.69	84.54	100.48	127.12
C	Kern (SJV)	Winter	2019	357.14	413.38	486.26	619.81	73.74	84.68	100.53	127.34
C	Kern (SJV)	Winter	2020	357.23	413.67	486.23	620.23	73.83	84.85	100.60	127.55
C	Kern (SJV)	Winter	2021	357.14	413.71	485.99	620.27	73.89	85.01	100.67	127.72
C	Kern (SJV)	Winter	2022	357.17	413.91	485.97	620.54	73.94	85.15	100.74	127.87
C	Kern (SJV)	Winter	2023	357.18	414.07	485.95	620.76	73.97	85.27	100.79	128.04
C	Kern (SJV)	Winter	2024	357.39	414.47	486.23	621.33	73.99	85.38	100.83	128.18
C	Kern (SJV)	Winter	2025	357.39	414.59	486.21	621.50	74.01	85.48	100.87	128.32
C	Kern (SJV)	Winter	2026	355.88	412.97	484.11	619.02	74.03	85.58	100.89	128.45
C	Kern (SJV)	Winter	2027	355.89	413.11	484.08	619.19	74.04	85.67	100.92	128.57
C	Kern (SJV)	Winter	2028	355.90	413.24	484.06	619.35	74.05	85.75	100.93	128.67
C	Kern (SJV)	Winter	2029	355.90	413.37	484.04	619.50	74.05	85.83	100.94	128.77
C	Kern (SJV)	Winter	2030	355.90	413.49	484.02	619.65	74.06	85.90	100.95	128.86
C	Kern (SJV)	Winter	2031	355.90	413.60	484.01	619.80	74.06	85.96	100.96	128.95
C	Kern (SJV)	Winter	2032	355.90	413.71	484.00	619.95	74.07	86.03	100.96	129.03
C	Kern (SJV)	Winter	2033	355.90	413.81	483.99	620.08	74.07	86.08	100.97	129.10
C	Kern (SJV)	Winter	2034	355.90	413.89	483.98	620.20	74.07	86.13	100.97	129.16
C	Kern (SJV)	Winter	2035	355.89	413.96	483.97	620.30	74.07	86.18	100.98	129.22
C	Kings (SJV)	Annual	2010	334.26	384.18	458.54	576.15	73.37	85.91	100.56	124.91
C	Kings (SJV)	Annual	2011	334.55	384.83	458.24	576.82	73.38	85.51	100.52	125.14
C	Kings (SJV)	Annual	2012	335.48	386.17	458.92	578.63	73.41	85.28	100.50	125.38
C	Kings (SJV)	Annual	2013	335.97	386.90	459.08	579.74	73.44	85.03	100.49	125.62
C	Kings (SJV)	Annual	2014	336.19	387.33	458.94	580.41	73.47	84.93	100.47	125.88
C	Kings (SJV)	Annual	2015	335.98	387.22	458.26	580.38	73.53	84.82	100.48	126.14
C	Kings (SJV)	Annual	2016	336.16	387.56	458.18	581.05	73.58	84.77	100.51	126.40
C	Kings (SJV)	Annual	2017	336.30	387.85	458.10	581.67	73.62	84.69	100.52	126.66
C	Kings (SJV)	Annual	2018	332.59	383.72	452.87	575.68	73.63	84.63	100.54	126.91
C	Kings (SJV)	Annual	2019	332.68	384.00	452.82	576.19	73.68	84.71	100.55	127.14
C	Kings (SJV)	Annual	2020	332.75	384.27	452.78	576.64	73.76	84.84	100.62	127.35
C	Kings (SJV)	Annual	2021	334.26	386.18	454.72	579.52	73.83	84.98	100.69	127.52

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Kings (SJV)	Annual	2022	334.29	386.41	454.68	579.81	73.88	85.12	100.75	127.67
C	Kings (SJV)	Annual	2023	334.30	386.59	454.64	580.04	73.91	85.24	100.80	127.84
C	Kings (SJV)	Annual	2024	334.92	387.49	455.46	581.31	73.93	85.35	100.84	127.99
C	Kings (SJV)	Annual	2025	334.93	387.63	455.43	581.48	73.95	85.45	100.87	128.14
C	Kings (SJV)	Annual	2026	337.32	390.57	458.64	585.81	73.97	85.55	100.90	128.28
C	Kings (SJV)	Annual	2027	337.33	390.73	458.61	585.98	73.98	85.64	100.92	128.41
C	Kings (SJV)	Annual	2028	337.33	390.90	458.57	586.15	73.99	85.73	100.94	128.53
C	Kings (SJV)	Annual	2029	337.33	391.07	458.54	586.31	74.00	85.80	100.95	128.63
C	Kings (SJV)	Annual	2030	337.33	391.23	458.51	586.48	74.01	85.88	100.95	128.74
C	Kings (SJV)	Annual	2031	337.33	391.39	458.49	586.65	74.01	85.95	100.96	128.83
C	Kings (SJV)	Annual	2032	337.33	391.54	458.47	586.81	74.01	86.02	100.97	128.92
C	Kings (SJV)	Annual	2033	337.33	391.67	458.45	586.96	74.02	86.08	100.97	129.01
C	Kings (SJV)	Annual	2034	337.33	391.78	458.43	587.10	74.02	86.13	100.98	129.08
C	Kings (SJV)	Annual	2035	337.33	391.87	458.41	587.22	74.02	86.17	100.98	129.15
C	Kings (SJV)	Summer	2010	367.72	417.56	501.93	631.65	73.37	85.91	100.56	124.91
C	Kings (SJV)	Summer	2011	368.24	419.09	501.96	632.31	73.38	85.51	100.52	125.14
C	Kings (SJV)	Summer	2012	369.40	421.14	502.98	634.26	73.41	85.28	100.50	125.38
C	Kings (SJV)	Summer	2013	370.02	422.41	503.38	635.49	73.44	85.03	100.49	125.62
C	Kings (SJV)	Summer	2014	370.32	423.21	503.44	636.29	73.47	84.93	100.47	125.88
C	Kings (SJV)	Summer	2015	370.13	423.37	502.86	636.36	73.53	84.82	100.48	126.14
C	Kings (SJV)	Summer	2016	370.35	423.95	502.90	637.22	73.58	84.77	100.51	126.40
C	Kings (SJV)	Summer	2017	370.51	424.45	502.92	638.03	73.62	84.69	100.52	126.66
C	Kings (SJV)	Summer	2018	366.42	420.10	497.24	631.57	73.63	84.63	100.54	126.91
C	Kings (SJV)	Summer	2019	366.52	420.52	497.24	632.24	73.68	84.71	100.55	127.14
C	Kings (SJV)	Summer	2020	366.59	420.92	497.21	632.82	73.76	84.84	100.62	127.35
C	Kings (SJV)	Summer	2021	368.26	423.12	499.35	636.05	73.83	84.98	100.69	127.52
C	Kings (SJV)	Summer	2022	368.30	423.46	499.31	636.43	73.88	85.12	100.75	127.67
C	Kings (SJV)	Summer	2023	368.32	423.74	499.27	636.71	73.91	85.24	100.80	127.84
C	Kings (SJV)	Summer	2024	369.01	424.82	500.17	638.12	73.93	85.35	100.84	127.99
C	Kings (SJV)	Summer	2025	369.02	425.07	500.14	638.31	73.95	85.45	100.87	128.14
C	Kings (SJV)	Summer	2026	371.65	428.36	503.68	643.07	73.97	85.55	100.90	128.28
C	Kings (SJV)	Summer	2027	371.66	428.60	503.66	643.25	73.98	85.64	100.92	128.41
C	Kings (SJV)	Summer	2028	371.66	428.85	503.63	643.43	73.99	85.73	100.94	128.53
C	Kings (SJV)	Summer	2029	371.66	429.09	503.61	643.61	74.00	85.80	100.95	128.63
C	Kings (SJV)	Summer	2030	371.67	429.33	503.59	643.80	74.01	85.88	100.95	128.74
C	Kings (SJV)	Summer	2031	371.67	429.58	503.58	643.97	74.01	85.95	100.96	128.83
C	Kings (SJV)	Summer	2032	371.67	429.79	503.57	644.15	74.01	86.02	100.97	128.92
C	Kings (SJV)	Summer	2033	371.67	429.97	503.55	644.32	74.02	86.08	100.97	129.01
C	Kings (SJV)	Summer	2034	371.67	430.11	503.54	644.49	74.02	86.13	100.98	129.08
C	Kings (SJV)	Summer	2035	371.67	430.22	503.52	644.64	74.02	86.17	100.98	129.15
C	Kings (SJV)	Winter	2010	320.60	370.56	440.84	553.50	73.37	85.91	100.56	124.91
C	Kings (SJV)	Winter	2011	320.80	370.85	440.40	554.17	73.38	85.51	100.52	125.14
C	Kings (SJV)	Winter	2012	321.64	371.90	440.94	555.92	73.41	85.28	100.50	125.38
C	Kings (SJV)	Winter	2013	322.08	372.41	441.00	556.98	73.44	85.03	100.49	125.62
C	Kings (SJV)	Winter	2014	322.26	372.69	440.78	557.60	73.47	84.93	100.47	125.88
C	Kings (SJV)	Winter	2015	322.05	372.46	440.06	557.54	73.53	84.82	100.48	126.14
C	Kings (SJV)	Winter	2016	322.20	372.71	439.92	558.12	73.58	84.77	100.51	126.40
C	Kings (SJV)	Winter	2017	322.34	372.91	439.81	558.67	73.62	84.69	100.52	126.66
C	Kings (SJV)	Winter	2018	318.78	368.87	434.77	552.87	73.63	84.63	100.54	126.91
C	Kings (SJV)	Winter	2019	318.87	369.09	434.70	553.31	73.68	84.71	100.55	127.14
C	Kings (SJV)	Winter	2020	318.94	369.31	434.65	553.71	73.76	84.84	100.62	127.35
C	Kings (SJV)	Winter	2021	320.39	371.11	436.51	556.44	73.83	84.98	100.69	127.52
C	Kings (SJV)	Winter	2022	320.42	371.30	436.47	556.70	73.88	85.12	100.75	127.67
C	Kings (SJV)	Winter	2023	320.42	371.43	436.43	556.91	73.91	85.24	100.80	127.84

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Kings (SJV)	Winter	2024	321.01	372.25	437.21	558.12	73.93	85.35	100.84	127.99
C	Kings (SJV)	Winter	2025	321.02	372.35	437.18	558.28	73.95	85.45	100.87	128.14
C	Kings (SJV)	Winter	2026	323.31	375.15	440.26	562.45	73.97	85.55	100.90	128.28
C	Kings (SJV)	Winter	2027	323.32	375.28	440.22	562.61	73.98	85.64	100.92	128.41
C	Kings (SJV)	Winter	2028	323.32	375.41	440.18	562.78	73.99	85.73	100.94	128.53
C	Kings (SJV)	Winter	2029	323.32	375.55	440.15	562.93	74.00	85.80	100.95	128.63
C	Kings (SJV)	Winter	2030	323.32	375.68	440.11	563.09	74.01	85.88	100.95	128.74
C	Kings (SJV)	Winter	2031	323.32	375.81	440.09	563.25	74.01	85.95	100.96	128.83
C	Kings (SJV)	Winter	2032	323.32	375.94	440.07	563.41	74.01	86.02	100.97	128.92
C	Kings (SJV)	Winter	2033	323.32	376.05	440.04	563.56	74.02	86.08	100.97	129.01
C	Kings (SJV)	Winter	2034	323.32	376.14	440.02	563.68	74.02	86.13	100.98	129.08
C	Kings (SJV)	Winter	2035	323.32	376.23	440.00	563.79	74.02	86.17	100.98	129.15
C	Lake (LC)	Annual	2010	342.07	393.50	467.77	584.22	74.77	89.34	101.91	124.46
C	Lake (LC)	Annual	2011	342.02	394.05	467.30	584.79	74.52	88.47	101.71	124.54
C	Lake (LC)	Annual	2012	342.06	394.51	466.93	585.54	74.36	87.81	101.56	124.69
C	Lake (LC)	Annual	2013	342.12	394.89	466.63	586.41	74.20	87.25	101.40	124.90
C	Lake (LC)	Annual	2014	342.14	395.21	466.41	587.25	73.98	86.77	101.22	125.12
C	Lake (LC)	Annual	2015	342.23	395.51	466.24	588.17	73.90	86.33	101.09	125.37
C	Lake (LC)	Annual	2016	342.33	395.78	466.10	589.06	73.88	85.99	101.00	125.66
C	Lake (LC)	Annual	2017	342.36	396.00	465.97	589.89	73.79	85.60	100.88	125.95
C	Lake (LC)	Annual	2018	342.39	396.17	465.87	590.62	73.73	85.27	100.83	126.22
C	Lake (LC)	Annual	2019	342.41	396.35	465.79	591.26	73.69	85.13	100.79	126.48
C	Lake (LC)	Annual	2020	342.44	396.52	465.72	591.82	73.77	85.14	100.79	126.73
C	Lake (LC)	Annual	2021	342.39	396.64	465.65	592.21	73.79	85.21	100.84	126.90
C	Lake (LC)	Annual	2022	342.31	396.75	465.57	592.55	73.78	85.27	100.85	127.07
C	Lake (LC)	Annual	2023	342.19	396.83	465.51	592.77	73.76	85.32	100.87	127.26
C	Lake (LC)	Annual	2024	342.07	396.89	465.44	592.97	73.71	85.36	100.88	127.45
C	Lake (LC)	Annual	2025	342.01	396.99	465.40	593.14	73.71	85.45	100.91	127.61
C	Lake (LC)	Annual	2026	342.02	397.10	465.36	593.32	73.73	85.55	100.93	127.78
C	Lake (LC)	Annual	2027	342.03	397.21	465.31	593.53	73.74	85.64	100.94	127.94
C	Lake (LC)	Annual	2028	342.03	397.32	465.27	593.73	73.75	85.72	100.95	128.09
C	Lake (LC)	Annual	2029	342.02	397.43	465.24	593.93	73.75	85.80	100.96	128.22
C	Lake (LC)	Annual	2030	342.00	397.54	465.21	594.14	73.75	85.88	100.95	128.35
C	Lake (LC)	Annual	2031	342.00	397.66	465.19	594.38	73.76	85.96	100.95	128.48
C	Lake (LC)	Annual	2032	341.99	397.76	465.18	594.62	73.76	86.03	100.96	128.61
C	Lake (LC)	Annual	2033	341.99	397.84	465.18	594.84	73.77	86.09	100.96	128.72
C	Lake (LC)	Annual	2034	341.98	397.92	465.17	595.03	73.77	86.15	100.97	128.82
C	Lake (LC)	Annual	2035	341.97	397.97	465.16	595.21	73.78	86.20	100.97	128.92
C	Lake (LC)	Summer	2010	365.54	417.38	498.77	621.97	74.77	89.34	101.91	124.46
C	Lake (LC)	Summer	2011	365.78	418.72	498.60	622.61	74.52	88.47	101.71	124.54
C	Lake (LC)	Summer	2012	366.03	419.77	498.49	623.54	74.36	87.81	101.56	124.69
C	Lake (LC)	Summer	2013	366.25	420.60	498.41	624.68	74.20	87.25	101.40	124.90
C	Lake (LC)	Summer	2014	366.39	421.26	498.37	625.78	73.98	86.77	101.22	125.12
C	Lake (LC)	Summer	2015	366.55	421.85	498.36	627.02	73.90	86.33	101.09	125.37
C	Lake (LC)	Summer	2016	366.69	422.33	498.33	628.23	73.88	85.99	101.00	125.66
C	Lake (LC)	Summer	2017	366.75	422.72	498.28	629.33	73.79	85.60	100.88	125.95
C	Lake (LC)	Summer	2018	366.77	423.03	498.21	630.31	73.73	85.27	100.83	126.22
C	Lake (LC)	Summer	2019	366.79	423.31	498.14	631.16	73.69	85.13	100.79	126.48
C	Lake (LC)	Summer	2020	366.81	423.55	498.08	631.89	73.77	85.14	100.79	126.73
C	Lake (LC)	Summer	2021	366.76	423.74	498.00	632.43	73.79	85.21	100.84	126.90
C	Lake (LC)	Summer	2022	366.67	423.91	497.93	632.88	73.78	85.27	100.85	127.07
C	Lake (LC)	Summer	2023	366.57	424.04	497.87	633.19	73.76	85.32	100.87	127.26
C	Lake (LC)	Summer	2024	366.46	424.16	497.81	633.47	73.71	85.36	100.88	127.45
C	Lake (LC)	Summer	2025	366.41	424.28	497.76	633.69	73.71	85.45	100.91	127.61

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Lake (LC)	Summer	2026	366.43	424.42	497.70	633.89	73.73	85.55	100.93	127.78
C	Lake (LC)	Summer	2027	366.46	424.56	497.65	634.10	73.74	85.64	100.94	127.94
C	Lake (LC)	Summer	2028	366.47	424.70	497.62	634.32	73.75	85.72	100.95	128.09
C	Lake (LC)	Summer	2029	366.48	424.86	497.59	634.55	73.75	85.80	100.96	128.22
C	Lake (LC)	Summer	2030	366.48	425.00	497.56	634.80	73.75	85.88	100.95	128.35
C	Lake (LC)	Summer	2031	366.48	425.18	497.58	635.06	73.76	85.96	100.95	128.48
C	Lake (LC)	Summer	2032	366.47	425.33	497.59	635.34	73.76	86.03	100.96	128.61
C	Lake (LC)	Summer	2033	366.46	425.44	497.60	635.60	73.77	86.09	100.96	128.72
C	Lake (LC)	Summer	2034	366.45	425.54	497.60	635.84	73.77	86.15	100.97	128.82
C	Lake (LC)	Summer	2035	366.44	425.60	497.60	636.06	73.78	86.20	100.97	128.92
C	Lake (LC)	Winter	2010	355.28	406.94	485.21	605.47	74.77	89.34	101.91	124.46
C	Lake (LC)	Winter	2011	355.39	407.93	484.91	606.07	74.52	88.47	101.71	124.54
C	Lake (LC)	Winter	2012	355.55	408.73	484.69	606.93	74.36	87.81	101.56	124.69
C	Lake (LC)	Winter	2013	355.70	409.36	484.52	607.95	74.20	87.25	101.40	124.90
C	Lake (LC)	Winter	2014	355.79	409.87	484.39	608.93	73.98	86.77	101.22	125.12
C	Lake (LC)	Winter	2015	355.91	410.33	484.31	610.03	73.90	86.33	101.09	125.37
C	Lake (LC)	Winter	2016	356.04	410.72	484.24	611.10	73.88	85.99	101.00	125.66
C	Lake (LC)	Winter	2017	356.08	411.04	484.15	612.08	73.79	85.60	100.88	125.95
C	Lake (LC)	Winter	2018	356.11	411.29	484.07	612.96	73.73	85.27	100.83	126.22
C	Lake (LC)	Winter	2019	356.13	411.52	484.00	613.71	73.69	85.13	100.79	126.48
C	Lake (LC)	Winter	2020	356.15	411.73	483.93	614.36	73.77	85.14	100.79	126.73
C	Lake (LC)	Winter	2021	356.11	411.89	483.85	614.84	73.79	85.21	100.84	126.90
C	Lake (LC)	Winter	2022	356.02	412.03	483.78	615.25	73.78	85.27	100.85	127.07
C	Lake (LC)	Winter	2023	355.91	412.15	483.72	615.52	73.76	85.32	100.87	127.26
C	Lake (LC)	Winter	2024	355.79	412.24	483.66	615.76	73.71	85.36	100.88	127.45
C	Lake (LC)	Winter	2025	355.74	412.35	483.61	615.96	73.71	85.45	100.91	127.61
C	Lake (LC)	Winter	2026	355.76	412.47	483.56	616.15	73.73	85.55	100.93	127.78
C	Lake (LC)	Winter	2027	355.78	412.60	483.51	616.36	73.74	85.64	100.94	127.94
C	Lake (LC)	Winter	2028	355.78	412.73	483.47	616.58	73.75	85.72	100.95	128.09
C	Lake (LC)	Winter	2029	355.78	412.87	483.44	616.79	73.75	85.80	100.96	128.22
C	Lake (LC)	Winter	2030	355.78	412.99	483.41	617.02	73.75	85.88	100.95	128.35
C	Lake (LC)	Winter	2031	355.77	413.15	483.42	617.27	73.76	85.96	100.95	128.48
C	Lake (LC)	Winter	2032	355.77	413.27	483.42	617.53	73.76	86.03	100.96	128.61
C	Lake (LC)	Winter	2033	355.76	413.37	483.42	617.77	73.77	86.09	100.96	128.72
C	Lake (LC)	Winter	2034	355.75	413.46	483.42	618.00	73.77	86.15	100.97	128.82
C	Lake (LC)	Winter	2035	355.74	413.52	483.42	618.20	73.78	86.20	100.97	128.92
C	Lassen (NEP)	Annual	2010	366.63	428.55	501.21	626.78	75.03	93.49	101.72	124.85
C	Lassen (NEP)	Annual	2011	366.52	427.89	500.66	627.52	74.78	92.04	101.44	124.99
C	Lassen (NEP)	Annual	2012	366.51	427.37	500.23	628.37	74.62	90.87	101.30	125.17
C	Lassen (NEP)	Annual	2013	366.45	426.93	499.88	629.27	74.35	89.90	101.18	125.38
C	Lassen (NEP)	Annual	2014	366.47	426.50	499.61	630.13	74.18	88.91	101.02	125.60
C	Lassen (NEP)	Annual	2015	366.54	426.15	499.39	631.03	74.11	88.06	100.90	125.84
C	Lassen (NEP)	Annual	2016	366.63	425.82	499.23	631.85	74.09	87.24	100.87	126.11
C	Lassen (NEP)	Annual	2017	366.62	425.58	499.09	632.62	73.95	86.60	100.80	126.37
C	Lassen (NEP)	Annual	2018	366.60	425.38	498.97	633.29	73.84	86.10	100.79	126.62
C	Lassen (NEP)	Annual	2019	366.62	425.22	498.88	633.88	73.81	85.71	100.76	126.84
C	Lassen (NEP)	Annual	2020	366.64	425.15	498.80	634.35	73.88	85.60	100.80	127.07
C	Lassen (NEP)	Annual	2021	366.58	425.05	498.73	634.71	73.90	85.58	100.85	127.25
C	Lassen (NEP)	Annual	2022	366.46	424.97	498.64	635.00	73.88	85.58	100.88	127.38
C	Lassen (NEP)	Annual	2023	366.37	424.91	498.56	635.19	73.88	85.59	100.91	127.55
C	Lassen (NEP)	Annual	2024	366.23	424.85	498.49	635.34	73.85	85.60	100.93	127.70
C	Lassen (NEP)	Annual	2025	366.17	424.91	498.44	635.47	73.85	85.67	100.96	127.84
C	Lassen (NEP)	Annual	2026	366.19	425.03	498.40	635.65	73.87	85.75	100.99	127.99
C	Lassen (NEP)	Annual	2027	366.19	425.15	498.34	635.84	73.88	85.83	101.00	128.13

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Lassen (NEP)	Annual	2028	366.19	425.28	498.29	636.04	73.89	85.91	101.01	128.26
C	Lassen (NEP)	Annual	2029	366.17	425.41	498.23	636.23	73.89	85.98	101.01	128.38
C	Lassen (NEP)	Annual	2030	366.16	425.52	498.17	636.41	73.89	86.04	101.01	128.49
C	Lassen (NEP)	Annual	2031	366.15	425.65	498.14	636.65	73.90	86.10	101.01	128.61
C	Lassen (NEP)	Annual	2032	366.15	425.76	498.12	636.90	73.90	86.16	101.01	128.73
C	Lassen (NEP)	Annual	2033	366.15	425.86	498.09	637.12	73.91	86.22	101.02	128.83
C	Lassen (NEP)	Annual	2034	366.14	425.94	498.07	637.31	73.91	86.26	101.02	128.92
C	Lassen (NEP)	Annual	2035	366.13	426.00	498.05	637.48	73.92	86.30	101.02	129.01
C	Lassen (NEP)	Summer	2010	385.95	446.82	526.65	657.83	75.03	93.49	101.72	124.85
C	Lassen (NEP)	Summer	2011	386.07	446.99	526.29	658.69	74.78	92.04	101.44	124.99
C	Lassen (NEP)	Summer	2012	386.23	447.10	526.01	659.72	74.62	90.87	101.30	125.17
C	Lassen (NEP)	Summer	2013	386.31	447.13	525.80	660.84	74.35	89.90	101.18	125.38
C	Lassen (NEP)	Summer	2014	386.41	447.10	525.66	661.92	74.18	88.91	101.02	125.60
C	Lassen (NEP)	Summer	2015	386.54	447.07	525.57	663.05	74.11	88.06	100.90	125.84
C	Lassen (NEP)	Summer	2016	386.67	447.02	525.50	664.09	74.09	87.24	100.87	126.11
C	Lassen (NEP)	Summer	2017	386.67	446.98	525.44	665.06	73.95	86.60	100.80	126.37
C	Lassen (NEP)	Summer	2018	386.66	446.94	525.37	665.90	73.84	86.10	100.79	126.62
C	Lassen (NEP)	Summer	2019	386.67	446.92	525.31	666.64	73.81	85.71	100.76	126.84
C	Lassen (NEP)	Summer	2020	386.68	446.95	525.25	667.23	73.88	85.60	100.80	127.07
C	Lassen (NEP)	Summer	2021	386.62	446.96	525.18	667.70	73.90	85.58	100.85	127.25
C	Lassen (NEP)	Summer	2022	386.49	446.97	525.10	668.07	73.88	85.58	100.88	127.38
C	Lassen (NEP)	Summer	2023	386.41	446.99	525.03	668.33	73.88	85.59	100.91	127.55
C	Lassen (NEP)	Summer	2024	386.28	447.01	524.97	668.54	73.85	85.60	100.93	127.70
C	Lassen (NEP)	Summer	2025	386.22	447.11	524.92	668.73	73.85	85.67	100.96	127.84
C	Lassen (NEP)	Summer	2026	386.24	447.28	524.88	668.93	73.87	85.75	100.99	127.99
C	Lassen (NEP)	Summer	2027	386.26	447.44	524.83	669.14	73.88	85.83	101.00	128.13
C	Lassen (NEP)	Summer	2028	386.27	447.61	524.79	669.37	73.89	85.91	101.01	128.26
C	Lassen (NEP)	Summer	2029	386.27	447.79	524.74	669.59	73.89	85.98	101.01	128.38
C	Lassen (NEP)	Summer	2030	386.26	447.96	524.69	669.81	73.89	86.04	101.01	128.49
C	Lassen (NEP)	Summer	2031	386.26	448.12	524.66	670.10	73.90	86.10	101.01	128.61
C	Lassen (NEP)	Summer	2032	386.26	448.27	524.64	670.38	73.90	86.16	101.01	128.73
C	Lassen (NEP)	Summer	2033	386.25	448.40	524.62	670.64	73.91	86.22	101.02	128.83
C	Lassen (NEP)	Summer	2034	386.25	448.50	524.60	670.87	73.91	86.26	101.02	128.92
C	Lassen (NEP)	Summer	2035	386.24	448.57	524.58	671.07	73.92	86.30	101.02	129.01
C	Lassen (NEP)	Winter	2010	359.88	422.17	492.33	615.94	75.03	93.49	101.72	124.85
C	Lassen (NEP)	Winter	2011	359.69	421.22	491.71	616.64	74.78	92.04	101.44	124.99
C	Lassen (NEP)	Winter	2012	359.63	420.48	491.23	617.43	74.62	90.87	101.30	125.17
C	Lassen (NEP)	Winter	2013	359.52	419.89	490.84	618.25	74.35	89.90	101.18	125.38
C	Lassen (NEP)	Winter	2014	359.51	419.32	490.52	619.04	74.18	88.91	101.02	125.60
C	Lassen (NEP)	Winter	2015	359.57	418.85	490.26	619.85	74.11	88.06	100.90	125.84
C	Lassen (NEP)	Winter	2016	359.64	418.43	490.06	620.60	74.09	87.24	100.87	126.11
C	Lassen (NEP)	Winter	2017	359.62	418.11	489.89	621.30	73.95	86.60	100.80	126.37
C	Lassen (NEP)	Winter	2018	359.60	417.85	489.77	621.91	73.84	86.10	100.79	126.62
C	Lassen (NEP)	Winter	2019	359.62	417.65	489.66	622.44	73.81	85.71	100.76	126.84
C	Lassen (NEP)	Winter	2020	359.65	417.54	489.58	622.88	73.88	85.60	100.80	127.07
C	Lassen (NEP)	Winter	2021	359.59	417.41	489.50	623.21	73.90	85.58	100.85	127.25
C	Lassen (NEP)	Winter	2022	359.47	417.29	489.40	623.46	73.88	85.58	100.88	127.38
C	Lassen (NEP)	Winter	2023	359.38	417.21	489.33	623.63	73.88	85.59	100.91	127.55
C	Lassen (NEP)	Winter	2024	359.24	417.11	489.25	623.75	73.85	85.60	100.93	127.70
C	Lassen (NEP)	Winter	2025	359.18	417.16	489.20	623.86	73.85	85.67	100.96	127.84
C	Lassen (NEP)	Winter	2026	359.19	417.27	489.16	624.04	73.87	85.75	100.99	127.99
C	Lassen (NEP)	Winter	2027	359.18	417.38	489.10	624.22	73.88	85.83	101.00	128.13
C	Lassen (NEP)	Winter	2028	359.18	417.49	489.05	624.41	73.89	85.91	101.01	128.26
C	Lassen (NEP)	Winter	2029	359.16	417.59	488.98	624.59	73.89	85.98	101.01	128.38

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Lassen (NEP)	Winter	2030	359.14	417.70	488.92	624.75	73.89	86.04	101.01	128.49
C	Lassen (NEP)	Winter	2031	359.14	417.80	488.89	624.98	73.90	86.10	101.01	128.61
C	Lassen (NEP)	Winter	2032	359.14	417.90	488.86	625.22	73.90	86.16	101.01	128.73
C	Lassen (NEP)	Winter	2033	359.13	417.99	488.84	625.43	73.91	86.22	101.02	128.83
C	Lassen (NEP)	Winter	2034	359.13	418.06	488.82	625.61	73.91	86.26	101.02	128.92
C	Lassen (NEP)	Winter	2035	359.12	418.13	488.80	625.76	73.92	86.30	101.02	129.01
C	Los Angeles (MD)	Annual	2010	345.89	395.46	472.51	595.78	73.36	84.38	99.72	125.11
C	Los Angeles (MD)	Annual	2011	348.87	399.45	476.26	601.40	73.38	84.28	99.78	125.35
C	Los Angeles (MD)	Annual	2012	349.04	400.17	476.18	602.17	73.40	84.27	99.87	125.60
C	Los Angeles (MD)	Annual	2013	350.49	402.29	477.89	605.21	73.42	84.25	99.97	125.87
C	Los Angeles (MD)	Annual	2014	350.66	402.85	477.86	605.99	73.46	84.24	100.05	126.14
C	Los Angeles (MD)	Annual	2015	355.63	408.92	484.44	615.13	73.50	84.26	100.16	126.42
C	Los Angeles (MD)	Annual	2016	355.79	409.41	484.43	615.82	73.56	84.33	100.25	126.69
C	Los Angeles (MD)	Annual	2017	355.91	409.84	484.42	616.46	73.60	84.36	100.32	126.95
C	Los Angeles (MD)	Annual	2018	356.00	410.20	484.40	617.00	73.63	84.42	100.38	127.20
C	Los Angeles (MD)	Annual	2019	357.84	412.61	486.79	620.54	73.67	84.58	100.46	127.42
C	Los Angeles (MD)	Annual	2020	357.92	412.97	486.78	620.97	73.75	84.76	100.55	127.62
C	Los Angeles (MD)	Annual	2021	360.97	416.79	490.85	626.51	73.82	84.94	100.64	127.79
C	Los Angeles (MD)	Annual	2022	361.00	417.09	490.84	626.80	73.87	85.10	100.71	127.92
C	Los Angeles (MD)	Annual	2023	361.00	417.34	490.82	627.02	73.90	85.24	100.77	128.08
C	Los Angeles (MD)	Annual	2024	361.28	417.87	491.15	627.65	73.91	85.37	100.81	128.23
C	Los Angeles (MD)	Annual	2025	361.29	418.06	491.14	627.84	73.93	85.48	100.86	128.37
C	Los Angeles (MD)	Annual	2026	361.30	418.26	491.12	628.01	73.95	85.58	100.89	128.50
C	Los Angeles (MD)	Annual	2027	361.31	418.44	491.10	628.17	73.97	85.67	100.91	128.62
C	Los Angeles (MD)	Annual	2028	361.32	418.63	491.09	628.32	73.97	85.76	100.93	128.72
C	Los Angeles (MD)	Annual	2029	361.32	418.81	491.07	628.47	73.98	85.84	100.94	128.81
C	Los Angeles (MD)	Annual	2030	361.31	418.99	491.06	628.62	73.98	85.91	100.95	128.90
C	Los Angeles (MD)	Annual	2031	366.94	425.72	498.73	638.58	73.99	85.98	100.96	128.98
C	Los Angeles (MD)	Annual	2032	366.93	425.88	498.72	638.71	73.99	86.05	100.97	129.05
C	Los Angeles (MD)	Annual	2033	366.93	426.03	498.71	638.83	74.00	86.10	100.98	129.12
C	Los Angeles (MD)	Annual	2034	366.92	426.15	498.70	638.94	74.00	86.15	100.98	129.18
C	Los Angeles (MD)	Annual	2035	366.92	426.26	498.69	639.04	74.00	86.20	100.99	129.24
C	Los Angeles (MD)	Summer	2010	381.87	431.89	519.76	655.58	73.36	84.38	99.72	125.11
C	Los Angeles (MD)	Summer	2011	385.34	436.89	524.09	661.69	73.38	84.28	99.78	125.35
C	Los Angeles (MD)	Summer	2012	385.66	438.19	524.18	662.56	73.40	84.27	99.87	125.60
C	Los Angeles (MD)	Summer	2013	387.37	440.97	526.26	666.03	73.42	84.25	99.97	125.87
C	Los Angeles (MD)	Summer	2014	387.63	441.94	526.42	667.04	73.46	84.24	100.05	126.14
C	Los Angeles (MD)	Summer	2015	393.20	448.92	533.87	677.32	73.50	84.26	100.16	126.42
C	Los Angeles (MD)	Summer	2016	393.41	449.67	534.00	678.24	73.56	84.33	100.25	126.69
C	Los Angeles (MD)	Summer	2017	393.56	450.33	534.08	679.07	73.60	84.36	100.32	126.95
C	Los Angeles (MD)	Summer	2018	393.65	450.86	534.11	679.75	73.63	84.42	100.38	127.20
C	Los Angeles (MD)	Summer	2019	395.68	453.61	536.75	683.71	73.67	84.58	100.46	127.42
C	Los Angeles (MD)	Summer	2020	395.75	454.07	536.73	684.25	73.75	84.76	100.55	127.62
C	Los Angeles (MD)	Summer	2021	399.16	458.42	541.24	690.46	73.82	84.94	100.64	127.79
C	Los Angeles (MD)	Summer	2022	399.20	458.86	541.22	690.83	73.87	85.10	100.71	127.92
C	Los Angeles (MD)	Summer	2023	399.21	459.24	541.20	691.10	73.90	85.24	100.77	128.08
C	Los Angeles (MD)	Summer	2024	399.46	459.85	541.48	691.72	73.91	85.37	100.81	128.23
C	Los Angeles (MD)	Summer	2025	399.48	460.16	541.47	691.93	73.93	85.48	100.86	128.37
C	Los Angeles (MD)	Summer	2026	399.50	460.45	541.44	692.11	73.95	85.58	100.89	128.50
C	Los Angeles (MD)	Summer	2027	399.52	460.73	541.42	692.27	73.97	85.67	100.91	128.62
C	Los Angeles (MD)	Summer	2028	399.53	461.00	541.41	692.44	73.97	85.76	100.93	128.72
C	Los Angeles (MD)	Summer	2029	399.53	461.26	541.39	692.59	73.98	85.84	100.94	128.81
C	Los Angeles (MD)	Summer	2030	399.53	461.50	541.38	692.75	73.98	85.91	100.95	128.90
C	Los Angeles (MD)	Summer	2031	405.74	468.99	549.84	703.69	73.99	85.98	100.96	128.98

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Los Angeles (MD)	Summer	2032	405.72	469.23	549.82	703.80	73.99	86.05	100.97	129.05
C	Los Angeles (MD)	Summer	2033	405.71	469.41	549.81	703.92	74.00	86.10	100.98	129.12
C	Los Angeles (MD)	Summer	2034	405.70	469.58	549.80	704.05	74.00	86.15	100.98	129.18
C	Los Angeles (MD)	Summer	2035	405.69	469.70	549.79	704.16	74.00	86.20	100.99	129.24
C	Los Angeles (MD)	Winter	2010	335.14	384.58	458.40	577.92	73.36	84.38	99.72	125.11
C	Los Angeles (MD)	Winter	2011	337.98	388.27	461.98	583.39	73.38	84.28	99.78	125.35
C	Los Angeles (MD)	Winter	2012	338.10	388.82	461.84	584.13	73.40	84.27	99.87	125.60
C	Los Angeles (MD)	Winter	2013	339.47	390.73	463.43	587.03	73.42	84.25	99.97	125.87
C	Los Angeles (MD)	Winter	2014	339.61	391.17	463.35	587.75	73.46	84.24	100.05	126.14
C	Los Angeles (MD)	Winter	2015	344.39	396.95	469.65	596.52	73.50	84.26	100.16	126.42
C	Los Angeles (MD)	Winter	2016	344.53	397.37	469.60	597.15	73.56	84.33	100.25	126.69
C	Los Angeles (MD)	Winter	2017	344.65	397.72	469.56	597.73	73.60	84.36	100.32	126.95
C	Los Angeles (MD)	Winter	2018	344.74	398.03	469.53	598.23	73.63	84.42	100.38	127.20
C	Los Angeles (MD)	Winter	2019	346.52	400.35	471.84	601.64	73.67	84.58	100.46	127.42
C	Los Angeles (MD)	Winter	2020	346.60	400.67	471.84	602.04	73.75	84.76	100.55	127.62
C	Los Angeles (MD)	Winter	2021	349.54	404.32	475.76	607.37	73.82	84.94	100.64	127.79
C	Los Angeles (MD)	Winter	2022	349.57	404.59	475.75	607.63	73.87	85.10	100.71	127.92
C	Los Angeles (MD)	Winter	2023	349.56	404.80	475.74	607.83	73.90	85.24	100.77	128.08
C	Los Angeles (MD)	Winter	2024	349.86	405.31	476.10	608.49	73.91	85.37	100.81	128.23
C	Los Angeles (MD)	Winter	2025	349.87	405.47	476.09	608.67	73.93	85.48	100.86	128.37
C	Los Angeles (MD)	Winter	2026	349.88	405.64	476.07	608.84	73.95	85.58	100.89	128.50
C	Los Angeles (MD)	Winter	2027	349.89	405.80	476.06	609.00	73.97	85.67	100.91	128.62
C	Los Angeles (MD)	Winter	2028	349.89	405.96	476.04	609.15	73.97	85.76	100.93	128.72
C	Los Angeles (MD)	Winter	2029	349.89	406.12	476.02	609.30	73.98	85.84	100.94	128.81
C	Los Angeles (MD)	Winter	2030	349.88	406.27	476.01	609.44	73.98	85.91	100.95	128.90
C	Los Angeles (MD)	Winter	2031	355.33	412.77	483.44	619.10	73.99	85.98	100.96	128.98
C	Los Angeles (MD)	Winter	2032	355.33	412.92	483.43	619.24	73.99	86.05	100.97	129.05
C	Los Angeles (MD)	Winter	2033	355.33	413.05	483.42	619.36	74.00	86.10	100.98	129.12
C	Los Angeles (MD)	Winter	2034	355.32	413.16	483.41	619.46	74.00	86.15	100.98	129.18
C	Los Angeles (MD)	Winter	2035	355.32	413.26	483.40	619.56	74.00	86.20	100.99	129.24
C	Los Angeles (SC)	Annual	2010	368.81	423.35	504.31	636.79	73.23	84.17	99.44	125.24
C	Los Angeles (SC)	Annual	2011	369.19	424.14	504.55	637.78	73.25	84.09	99.54	125.41
C	Los Angeles (SC)	Annual	2012	369.32	424.57	504.44	638.29	73.29	84.06	99.65	125.59
C	Los Angeles (SC)	Annual	2013	369.90	425.46	504.92	639.56	73.35	84.06	99.77	125.78
C	Los Angeles (SC)	Annual	2014	370.06	425.83	504.86	640.12	73.40	84.06	99.88	125.98
C	Los Angeles (SC)	Annual	2015	371.03	427.14	505.91	642.13	73.46	84.09	99.99	126.20
C	Los Angeles (SC)	Annual	2016	371.20	427.50	505.88	642.73	73.53	84.14	100.10	126.42
C	Los Angeles (SC)	Annual	2017	371.33	427.85	505.86	643.32	73.57	84.19	100.20	126.66
C	Los Angeles (SC)	Annual	2018	371.43	428.15	505.85	643.83	73.60	84.26	100.28	126.87
C	Los Angeles (SC)	Annual	2019	370.16	426.91	503.97	641.92	73.64	84.41	100.37	127.07
C	Los Angeles (SC)	Annual	2020	370.25	427.21	503.98	642.35	73.73	84.57	100.47	127.26
C	Los Angeles (SC)	Annual	2021	371.05	428.35	504.98	643.97	73.79	84.73	100.56	127.42
C	Los Angeles (SC)	Annual	2022	371.07	428.59	504.97	644.26	73.84	84.87	100.64	127.56
C	Los Angeles (SC)	Annual	2023	371.07	428.78	504.96	644.47	73.87	84.99	100.70	127.72
C	Los Angeles (SC)	Annual	2024	373.71	432.03	508.59	649.29	73.88	85.10	100.76	127.86
C	Los Angeles (SC)	Annual	2025	373.69	432.17	508.58	649.46	73.90	85.21	100.80	128.00
C	Los Angeles (SC)	Annual	2026	373.71	432.36	508.56	649.64	73.92	85.31	100.84	128.14
C	Los Angeles (SC)	Annual	2027	373.72	432.53	508.54	649.80	73.93	85.40	100.87	128.26
C	Los Angeles (SC)	Annual	2028	373.72	432.70	508.51	649.97	73.94	85.49	100.89	128.37
C	Los Angeles (SC)	Annual	2029	373.72	432.89	508.49	650.13	73.95	85.57	100.91	128.48
C	Los Angeles (SC)	Annual	2030	373.71	433.07	508.47	650.30	73.95	85.65	100.92	128.58
C	Los Angeles (SC)	Annual	2031	374.43	434.12	509.44	651.74	73.96	85.73	100.93	128.68
C	Los Angeles (SC)	Annual	2032	374.42	434.31	509.43	651.93	73.96	85.81	100.94	128.77
C	Los Angeles (SC)	Annual	2033	374.42	434.47	509.42	652.10	73.97	85.88	100.95	128.86

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Los Angeles (SC)	Annual	2034	374.42	434.62	509.41	652.26	73.97	85.94	100.96	128.94
C	Los Angeles (SC)	Annual	2035	374.41	434.74	509.40	652.40	73.97	85.99	100.96	129.01
C	Los Angeles (SC)	Summer	2010	385.28	440.09	525.98	664.19	73.23	84.17	99.44	125.24
C	Los Angeles (SC)	Summer	2011	385.73	441.13	526.29	665.13	73.25	84.09	99.54	125.41
C	Los Angeles (SC)	Summer	2012	385.91	441.75	526.21	665.60	73.29	84.06	99.65	125.59
C	Los Angeles (SC)	Summer	2013	386.55	442.81	526.76	666.89	73.35	84.06	99.77	125.78
C	Los Angeles (SC)	Summer	2014	386.73	443.32	526.74	667.48	73.40	84.06	99.88	125.98
C	Los Angeles (SC)	Summer	2015	387.76	444.78	527.89	669.62	73.46	84.09	99.99	126.20
C	Los Angeles (SC)	Summer	2016	387.94	445.24	527.91	670.32	73.53	84.14	100.10	126.42
C	Los Angeles (SC)	Summer	2017	388.08	445.68	527.93	671.01	73.57	84.19	100.20	126.66
C	Los Angeles (SC)	Summer	2018	388.19	446.07	527.94	671.60	73.60	84.26	100.28	126.87
C	Los Angeles (SC)	Summer	2019	386.86	444.82	526.01	669.67	73.64	84.41	100.37	127.07
C	Los Angeles (SC)	Summer	2020	386.96	445.19	526.01	670.16	73.73	84.57	100.47	127.26
C	Los Angeles (SC)	Summer	2021	387.79	446.44	527.07	671.91	73.79	84.73	100.56	127.42
C	Los Angeles (SC)	Summer	2022	387.82	446.75	527.06	672.25	73.84	84.87	100.64	127.56
C	Los Angeles (SC)	Summer	2023	387.81	447.00	527.05	672.49	73.87	84.99	100.70	127.72
C	Los Angeles (SC)	Summer	2024	390.60	450.47	530.86	677.57	73.88	85.10	100.76	127.86
C	Los Angeles (SC)	Summer	2025	390.59	450.66	530.84	677.76	73.90	85.21	100.80	128.00
C	Los Angeles (SC)	Summer	2026	390.61	450.90	530.82	677.94	73.92	85.31	100.84	128.14
C	Los Angeles (SC)	Summer	2027	390.62	451.11	530.79	678.11	73.93	85.40	100.87	128.26
C	Los Angeles (SC)	Summer	2028	390.63	451.34	530.77	678.27	73.94	85.49	100.89	128.37
C	Los Angeles (SC)	Summer	2029	390.63	451.57	530.74	678.44	73.95	85.57	100.91	128.48
C	Los Angeles (SC)	Summer	2030	390.62	451.80	530.72	678.61	73.95	85.65	100.92	128.58
C	Los Angeles (SC)	Summer	2031	391.38	452.94	531.76	680.13	73.96	85.73	100.93	128.68
C	Los Angeles (SC)	Summer	2032	391.37	453.18	531.75	680.32	73.96	85.81	100.94	128.77
C	Los Angeles (SC)	Summer	2033	391.37	453.37	531.74	680.50	73.97	85.88	100.95	128.86
C	Los Angeles (SC)	Summer	2034	391.37	453.55	531.73	680.67	73.97	85.94	100.96	128.94
C	Los Angeles (SC)	Summer	2035	391.36	453.68	531.72	680.83	73.97	85.99	100.96	129.01
C	Los Angeles (SC)	Winter	2010	362.71	417.15	496.28	626.64	73.23	84.17	99.44	125.24
C	Los Angeles (SC)	Winter	2011	363.06	417.84	496.50	627.65	73.25	84.09	99.54	125.41
C	Los Angeles (SC)	Winter	2012	363.18	418.21	496.38	628.18	73.29	84.06	99.65	125.59
C	Los Angeles (SC)	Winter	2013	363.74	419.03	496.84	629.44	73.35	84.06	99.77	125.78
C	Los Angeles (SC)	Winter	2014	363.89	419.36	496.75	629.99	73.40	84.06	99.88	125.98
C	Los Angeles (SC)	Winter	2015	364.84	420.60	497.77	631.94	73.46	84.09	99.99	126.20
C	Los Angeles (SC)	Winter	2016	365.00	420.93	497.72	632.51	73.53	84.14	100.10	126.42
C	Los Angeles (SC)	Winter	2017	365.12	421.25	497.69	633.06	73.57	84.19	100.20	126.66
C	Los Angeles (SC)	Winter	2018	365.22	421.52	497.66	633.55	73.60	84.26	100.28	126.87
C	Los Angeles (SC)	Winter	2019	363.97	420.27	495.81	631.65	73.64	84.41	100.37	127.07
C	Los Angeles (SC)	Winter	2020	364.06	420.56	495.81	632.05	73.73	84.57	100.47	127.26
C	Los Angeles (SC)	Winter	2021	364.85	421.65	496.80	633.62	73.79	84.73	100.56	127.42
C	Los Angeles (SC)	Winter	2022	364.87	421.87	496.79	633.89	73.84	84.87	100.64	127.56
C	Los Angeles (SC)	Winter	2023	364.86	422.03	496.78	634.09	73.87	84.99	100.70	127.72
C	Los Angeles (SC)	Winter	2024	367.45	425.20	500.34	638.81	73.88	85.10	100.76	127.86
C	Los Angeles (SC)	Winter	2025	367.44	425.32	500.33	638.98	73.90	85.21	100.80	128.00
C	Los Angeles (SC)	Winter	2026	367.45	425.49	500.31	639.15	73.92	85.31	100.84	128.14
C	Los Angeles (SC)	Winter	2027	367.46	425.64	500.29	639.32	73.93	85.40	100.87	128.26
C	Los Angeles (SC)	Winter	2028	367.46	425.80	500.27	639.48	73.94	85.49	100.89	128.37
C	Los Angeles (SC)	Winter	2029	367.45	425.97	500.24	639.64	73.95	85.57	100.91	128.48
C	Los Angeles (SC)	Winter	2030	367.44	426.13	500.22	639.81	73.95	85.65	100.92	128.58
C	Los Angeles (SC)	Winter	2031	368.15	427.14	501.18	641.22	73.96	85.73	100.93	128.68
C	Los Angeles (SC)	Winter	2032	368.14	427.31	501.17	641.41	73.96	85.81	100.94	128.77
C	Los Angeles (SC)	Winter	2033	368.14	427.47	501.15	641.57	73.97	85.88	100.95	128.86
C	Los Angeles (SC)	Winter	2034	368.14	427.61	501.14	641.73	73.97	85.94	100.96	128.94
C	Los Angeles (SC)	Winter	2035	368.13	427.73	501.13	641.86	73.97	85.99	100.96	129.01

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Madera (SJV)	Annual	2010	344.30	396.00	471.44	591.13	73.51	87.22	100.74	124.58
C	Madera (SJV)	Annual	2011	344.51	396.95	471.16	592.07	73.49	86.59	100.69	124.83
C	Madera (SJV)	Annual	2012	344.50	397.37	470.74	592.52	73.45	86.21	100.68	125.06
C	Madera (SJV)	Annual	2013	348.08	401.83	475.18	599.25	73.49	85.88	100.68	125.34
C	Madera (SJV)	Annual	2014	348.25	402.31	475.06	600.13	73.49	85.60	100.63	125.63
C	Madera (SJV)	Annual	2015	354.35	409.56	483.11	611.24	73.50	85.34	100.61	125.91
C	Madera (SJV)	Annual	2016	354.51	409.87	483.03	612.02	73.54	85.14	100.62	126.19
C	Madera (SJV)	Annual	2017	354.59	410.14	482.95	612.76	73.53	84.97	100.56	126.47
C	Madera (SJV)	Annual	2018	362.06	419.14	493.00	626.51	73.54	84.94	100.58	126.81
C	Madera (SJV)	Annual	2019	362.17	419.50	492.97	627.30	73.58	84.99	100.61	127.12
C	Madera (SJV)	Annual	2020	362.26	419.80	492.94	627.97	73.67	85.10	100.68	127.40
C	Madera (SJV)	Annual	2021	357.55	414.48	486.41	620.11	73.74	85.25	100.75	127.59
C	Madera (SJV)	Annual	2022	357.57	414.65	486.37	620.44	73.79	85.37	100.81	127.75
C	Madera (SJV)	Annual	2023	357.55	414.78	486.33	620.71	73.81	85.48	100.86	127.94
C	Madera (SJV)	Annual	2024	364.97	423.58	496.48	633.93	73.82	85.58	100.89	128.11
C	Madera (SJV)	Annual	2025	364.97	423.69	496.44	634.14	73.84	85.67	100.92	128.28
C	Madera (SJV)	Annual	2026	374.82	435.22	509.83	651.42	73.86	85.75	100.94	128.40
C	Madera (SJV)	Annual	2027	374.81	435.26	509.77	651.51	73.87	85.81	100.96	128.52
C	Madera (SJV)	Annual	2028	374.80	435.33	509.72	651.63	73.88	85.88	100.97	128.62
C	Madera (SJV)	Annual	2029	374.79	435.42	509.68	651.76	73.89	85.94	100.97	128.71
C	Madera (SJV)	Annual	2030	374.78	435.50	509.65	651.90	73.89	85.99	100.98	128.81
C	Madera (SJV)	Annual	2031	374.77	435.59	509.63	652.06	73.89	86.05	100.98	128.89
C	Madera (SJV)	Annual	2032	374.77	435.67	509.62	652.22	73.90	86.10	100.99	128.97
C	Madera (SJV)	Annual	2033	374.77	435.74	509.61	652.38	73.90	86.14	100.99	129.05
C	Madera (SJV)	Annual	2034	374.77	435.81	509.62	652.54	73.90	86.18	100.99	129.12
C	Madera (SJV)	Annual	2035	374.77	435.86	509.62	652.67	73.91	86.22	101.00	129.18
C	Madera (SJV)	Summer	2010	377.25	430.41	514.94	645.71	73.51	87.22	100.74	124.58
C	Madera (SJV)	Summer	2011	377.78	432.35	515.17	646.80	73.49	86.59	100.69	124.83
C	Madera (SJV)	Summer	2012	377.94	433.28	514.98	647.29	73.45	86.21	100.68	125.06
C	Madera (SJV)	Summer	2013	382.01	438.58	520.11	654.78	73.49	85.88	100.68	125.34
C	Madera (SJV)	Summer	2014	382.31	439.41	520.20	655.90	73.49	85.60	100.63	125.63
C	Madera (SJV)	Summer	2015	389.06	447.53	529.15	668.18	73.50	85.34	100.61	125.91
C	Madera (SJV)	Summer	2016	389.25	447.99	529.13	669.19	73.54	85.14	100.62	126.19
C	Madera (SJV)	Summer	2017	389.36	448.39	529.09	670.12	73.53	84.97	100.56	126.47
C	Madera (SJV)	Summer	2018	397.65	458.50	540.25	685.49	73.54	84.94	100.58	126.81
C	Madera (SJV)	Summer	2019	397.83	459.10	540.32	686.62	73.58	84.99	100.61	127.12
C	Madera (SJV)	Summer	2020	397.96	459.58	540.34	687.54	73.67	85.10	100.68	127.40
C	Madera (SJV)	Summer	2021	392.77	453.78	533.14	678.99	73.74	85.25	100.75	127.59
C	Madera (SJV)	Summer	2022	392.78	454.00	533.07	679.41	73.79	85.37	100.81	127.75
C	Madera (SJV)	Summer	2023	392.75	454.19	533.01	679.71	73.81	85.48	100.86	127.94
C	Madera (SJV)	Summer	2024	400.91	463.86	544.13	694.20	73.82	85.58	100.89	128.11
C	Madera (SJV)	Summer	2025	400.90	464.00	544.08	694.41	73.84	85.67	100.92	128.28
C	Madera (SJV)	Summer	2026	411.64	476.53	558.60	713.13	73.86	85.75	100.94	128.40
C	Madera (SJV)	Summer	2027	411.58	476.53	558.44	713.08	73.87	85.81	100.96	128.52
C	Madera (SJV)	Summer	2028	411.54	476.57	558.32	713.10	73.88	85.88	100.97	128.62
C	Madera (SJV)	Summer	2029	411.52	476.66	558.26	713.17	73.89	85.94	100.97	128.71
C	Madera (SJV)	Summer	2030	411.52	476.77	558.22	713.28	73.89	85.99	100.98	128.81
C	Madera (SJV)	Summer	2031	411.48	476.87	558.17	713.41	73.89	86.05	100.98	128.89
C	Madera (SJV)	Summer	2032	411.47	476.97	558.15	713.58	73.90	86.10	100.99	128.97
C	Madera (SJV)	Summer	2033	411.47	477.07	558.17	713.77	73.90	86.14	100.99	129.05
C	Madera (SJV)	Summer	2034	411.48	477.17	558.20	713.98	73.90	86.18	100.99	129.12
C	Madera (SJV)	Summer	2035	411.50	477.24	558.23	714.17	73.91	86.22	101.00	129.18
C	Madera (SJV)	Winter	2010	331.74	382.88	454.86	570.33	73.51	87.22	100.74	124.58
C	Madera (SJV)	Winter	2011	331.82	383.46	454.38	571.21	73.49	86.59	100.69	124.83

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Madera (SJV)	Winter	2012	331.75	383.68	453.87	571.65	73.45	86.21	100.68	125.06
C	Madera (SJV)	Winter	2013	335.14	387.83	458.06	578.08	73.49	85.88	100.68	125.34
C	Madera (SJV)	Winter	2014	335.27	388.17	457.85	578.87	73.49	85.60	100.63	125.63
C	Madera (SJV)	Winter	2015	341.12	395.09	465.56	589.53	73.50	85.34	100.61	125.91
C	Madera (SJV)	Winter	2016	341.26	395.33	465.45	590.23	73.54	85.14	100.62	126.19
C	Madera (SJV)	Winter	2017	341.34	395.55	465.36	590.89	73.53	84.97	100.56	126.47
C	Madera (SJV)	Winter	2018	348.50	404.13	474.98	604.03	73.54	84.94	100.58	126.81
C	Madera (SJV)	Winter	2019	348.58	404.41	474.92	604.69	73.58	84.99	100.61	127.12
C	Madera (SJV)	Winter	2020	348.65	404.64	474.88	605.26	73.67	85.10	100.68	127.40
C	Madera (SJV)	Winter	2021	344.13	399.50	468.60	597.66	73.74	85.25	100.75	127.59
C	Madera (SJV)	Winter	2022	344.15	399.65	468.56	597.97	73.79	85.37	100.81	127.75
C	Madera (SJV)	Winter	2023	344.14	399.77	468.53	598.22	73.81	85.48	100.86	127.94
C	Madera (SJV)	Winter	2024	351.28	408.23	478.31	610.95	73.82	85.58	100.89	128.11
C	Madera (SJV)	Winter	2025	351.28	408.32	478.29	611.17	73.84	85.67	100.92	128.28
C	Madera (SJV)	Winter	2026	360.78	419.47	491.24	627.89	73.86	85.75	100.94	128.40
C	Madera (SJV)	Winter	2027	360.79	419.54	491.22	628.04	73.87	85.81	100.96	128.52
C	Madera (SJV)	Winter	2028	360.79	419.61	491.19	628.20	73.88	85.88	100.97	128.62
C	Madera (SJV)	Winter	2029	360.79	419.69	491.17	628.35	73.89	85.94	100.97	128.71
C	Madera (SJV)	Winter	2030	360.78	419.77	491.14	628.51	73.89	85.99	100.98	128.81
C	Madera (SJV)	Winter	2031	360.78	419.85	491.13	628.67	73.89	86.05	100.98	128.89
C	Madera (SJV)	Winter	2032	360.78	419.92	491.12	628.84	73.90	86.10	100.99	128.97
C	Madera (SJV)	Winter	2033	360.78	419.98	491.11	628.98	73.90	86.14	100.99	129.05
C	Madera (SJV)	Winter	2034	360.77	420.04	491.10	629.12	73.90	86.18	100.99	129.12
C	Madera (SJV)	Winter	2035	360.77	420.08	491.09	629.23	73.91	86.22	101.00	129.18
C	Marin (SF)	Annual	2010	342.06	393.30	467.93	590.43	73.01	84.53	99.43	125.07
C	Marin (SF)	Annual	2011	342.19	393.69	467.77	590.87	73.00	84.35	99.51	125.23
C	Marin (SF)	Annual	2012	342.32	394.10	467.65	591.38	72.98	84.26	99.63	125.42
C	Marin (SF)	Annual	2013	342.52	394.50	467.56	591.92	73.04	84.24	99.74	125.62
C	Marin (SF)	Annual	2014	342.70	394.88	467.49	592.49	73.06	84.22	99.85	125.83
C	Marin (SF)	Annual	2015	342.90	395.23	467.44	593.06	73.12	84.21	99.96	126.06
C	Marin (SF)	Annual	2016	343.09	395.61	467.41	593.61	73.20	84.24	100.07	126.29
C	Marin (SF)	Annual	2017	343.23	395.96	467.38	594.14	73.23	84.30	100.16	126.53
C	Marin (SF)	Annual	2018	343.35	396.28	467.37	594.61	73.26	84.37	100.27	126.75
C	Marin (SF)	Annual	2019	343.45	396.57	467.36	595.01	73.29	84.48	100.36	126.95
C	Marin (SF)	Annual	2020	343.56	396.84	467.35	595.38	73.40	84.63	100.46	127.14
C	Marin (SF)	Annual	2021	343.62	397.07	467.35	595.68	73.47	84.79	100.55	127.29
C	Marin (SF)	Annual	2022	343.67	397.28	467.34	595.93	73.53	84.93	100.63	127.41
C	Marin (SF)	Annual	2023	343.68	397.44	467.33	596.13	73.56	85.05	100.70	127.57
C	Marin (SF)	Annual	2024	343.65	397.57	467.32	596.28	73.58	85.16	100.76	127.71
C	Marin (SF)	Annual	2025	343.63	397.68	467.31	596.44	73.60	85.26	100.80	127.85
C	Marin (SF)	Annual	2026	343.66	397.83	467.29	596.62	73.62	85.36	100.84	127.99
C	Marin (SF)	Annual	2027	343.67	397.97	467.27	596.79	73.64	85.45	100.87	128.12
C	Marin (SF)	Annual	2028	343.67	398.11	467.25	596.97	73.65	85.53	100.89	128.24
C	Marin (SF)	Annual	2029	343.67	398.26	467.22	597.14	73.66	85.62	100.91	128.35
C	Marin (SF)	Annual	2030	343.66	398.41	467.19	597.32	73.66	85.69	100.92	128.46
C	Marin (SF)	Annual	2031	343.65	398.57	467.18	597.51	73.67	85.77	100.93	128.56
C	Marin (SF)	Annual	2032	343.65	398.71	467.17	597.70	73.67	85.85	100.94	128.66
C	Marin (SF)	Annual	2033	343.65	398.85	467.16	597.87	73.68	85.91	100.95	128.75
C	Marin (SF)	Annual	2034	343.65	398.97	467.15	598.03	73.68	85.98	100.95	128.84
C	Marin (SF)	Annual	2035	343.64	399.07	467.13	598.17	73.69	86.03	100.96	128.92
C	Marin (SF)	Summer	2010	368.58	421.04	503.41	635.07	73.01	84.53	99.43	125.07
C	Marin (SF)	Summer	2011	368.87	421.79	503.29	635.34	73.00	84.35	99.51	125.23
C	Marin (SF)	Summer	2012	369.13	422.49	503.22	635.76	72.98	84.26	99.63	125.42
C	Marin (SF)	Summer	2013	369.44	423.14	503.19	636.29	73.04	84.24	99.74	125.62

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Marin (SF)	Summer	2014	369.69	423.73	503.20	636.91	73.06	84.22	99.85	125.83
C	Marin (SF)	Summer	2015	369.95	424.26	503.22	637.60	73.12	84.21	99.96	126.06
C	Marin (SF)	Summer	2016	370.19	424.82	503.26	638.30	73.20	84.24	100.07	126.29
C	Marin (SF)	Summer	2017	370.35	425.34	503.30	638.99	73.23	84.30	100.16	126.53
C	Marin (SF)	Summer	2018	370.48	425.80	503.31	639.59	73.26	84.37	100.27	126.75
C	Marin (SF)	Summer	2019	370.59	426.19	503.33	640.09	73.29	84.48	100.36	126.95
C	Marin (SF)	Summer	2020	370.71	426.55	503.34	640.55	73.40	84.63	100.46	127.14
C	Marin (SF)	Summer	2021	370.77	426.87	503.34	640.93	73.47	84.79	100.55	127.29
C	Marin (SF)	Summer	2022	370.82	427.15	503.33	641.26	73.53	84.93	100.63	127.41
C	Marin (SF)	Summer	2023	370.83	427.37	503.31	641.51	73.56	85.05	100.70	127.57
C	Marin (SF)	Summer	2024	370.80	427.56	503.29	641.70	73.58	85.16	100.76	127.71
C	Marin (SF)	Summer	2025	370.79	427.73	503.27	641.88	73.60	85.26	100.80	127.85
C	Marin (SF)	Summer	2026	370.81	427.93	503.25	642.10	73.62	85.36	100.84	127.99
C	Marin (SF)	Summer	2027	370.83	428.12	503.22	642.29	73.64	85.45	100.87	128.12
C	Marin (SF)	Summer	2028	370.84	428.32	503.19	642.48	73.65	85.53	100.89	128.24
C	Marin (SF)	Summer	2029	370.84	428.53	503.16	642.68	73.66	85.62	100.91	128.35
C	Marin (SF)	Summer	2030	370.84	428.74	503.14	642.87	73.66	85.69	100.92	128.46
C	Marin (SF)	Summer	2031	370.84	428.96	503.13	643.08	73.67	85.77	100.93	128.56
C	Marin (SF)	Summer	2032	370.84	429.15	503.12	643.29	73.67	85.85	100.94	128.66
C	Marin (SF)	Summer	2033	370.85	429.32	503.11	643.48	73.68	85.91	100.95	128.75
C	Marin (SF)	Summer	2034	370.85	429.47	503.10	643.67	73.68	85.98	100.95	128.84
C	Marin (SF)	Summer	2035	370.85	429.59	503.09	643.84	73.69	86.03	100.96	128.92
C	Marin (SF)	Winter	2010	340.33	391.50	465.62	587.52	73.01	84.53	99.43	125.07
C	Marin (SF)	Winter	2011	340.45	391.86	465.46	587.97	73.00	84.35	99.51	125.23
C	Marin (SF)	Winter	2012	340.57	392.25	465.34	588.49	72.98	84.26	99.63	125.42
C	Marin (SF)	Winter	2013	340.77	392.64	465.24	589.03	73.04	84.24	99.74	125.62
C	Marin (SF)	Winter	2014	340.94	393.00	465.17	589.60	73.06	84.22	99.85	125.83
C	Marin (SF)	Winter	2015	341.14	393.34	465.11	590.16	73.12	84.21	99.96	126.06
C	Marin (SF)	Winter	2016	341.33	393.70	465.07	590.70	73.20	84.24	100.07	126.29
C	Marin (SF)	Winter	2017	341.47	394.05	465.04	591.22	73.23	84.30	100.16	126.53
C	Marin (SF)	Winter	2018	341.58	394.36	465.03	591.68	73.26	84.37	100.27	126.75
C	Marin (SF)	Winter	2019	341.68	394.64	465.02	592.08	73.29	84.48	100.36	126.95
C	Marin (SF)	Winter	2020	341.80	394.90	465.01	592.44	73.40	84.63	100.46	127.14
C	Marin (SF)	Winter	2021	341.86	395.13	465.01	592.73	73.47	84.79	100.55	127.29
C	Marin (SF)	Winter	2022	341.91	395.34	465.00	592.98	73.53	84.93	100.63	127.41
C	Marin (SF)	Winter	2023	341.91	395.49	464.99	593.17	73.56	85.05	100.70	127.57
C	Marin (SF)	Winter	2024	341.88	395.61	464.98	593.32	73.58	85.16	100.76	127.71
C	Marin (SF)	Winter	2025	341.87	395.73	464.97	593.48	73.60	85.26	100.80	127.85
C	Marin (SF)	Winter	2026	341.89	395.87	464.95	593.66	73.62	85.36	100.84	127.99
C	Marin (SF)	Winter	2027	341.90	396.01	464.93	593.83	73.64	85.45	100.87	128.12
C	Marin (SF)	Winter	2028	341.90	396.15	464.91	594.00	73.65	85.53	100.89	128.24
C	Marin (SF)	Winter	2029	341.90	396.29	464.88	594.18	73.66	85.62	100.91	128.35
C	Marin (SF)	Winter	2030	341.89	396.44	464.85	594.35	73.66	85.69	100.92	128.46
C	Marin (SF)	Winter	2031	341.88	396.59	464.84	594.54	73.67	85.77	100.93	128.56
C	Marin (SF)	Winter	2032	341.88	396.73	464.83	594.73	73.67	85.85	100.94	128.66
C	Marin (SF)	Winter	2033	341.88	396.86	464.82	594.90	73.68	85.91	100.95	128.75
C	Marin (SF)	Winter	2034	341.88	396.98	464.80	595.06	73.68	85.98	100.95	128.84
C	Marin (SF)	Winter	2035	341.87	397.09	464.79	595.20	73.69	86.03	100.96	128.92
C	Mariposa (MC)	Annual	2010	354.50	410.51	485.83	607.63	74.37	89.51	102.09	125.68
C	Mariposa (MC)	Annual	2011	354.40	410.55	485.11	608.19	74.22	88.77	101.86	125.71
C	Mariposa (MC)	Annual	2012	354.31	410.56	484.54	608.86	74.03	88.15	101.71	125.79
C	Mariposa (MC)	Annual	2013	354.36	410.52	484.09	609.60	73.97	87.50	101.57	125.92
C	Mariposa (MC)	Annual	2014	354.33	410.46	483.72	610.33	73.82	86.87	101.30	126.07
C	Mariposa (MC)	Annual	2015	354.43	410.47	483.42	611.09	73.83	86.45	101.16	126.26

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Mariposa (MC)	Annual	2016	354.48	410.49	483.19	611.81	73.80	86.11	101.08	126.48
C	Mariposa (MC)	Annual	2017	354.51	410.47	483.00	612.49	73.77	85.68	101.00	126.70
C	Mariposa (MC)	Annual	2018	354.51	410.48	482.83	613.06	73.71	85.43	100.90	126.90
C	Mariposa (MC)	Annual	2019	354.47	410.55	482.70	613.53	73.61	85.35	100.87	127.11
C	Mariposa (MC)	Annual	2020	354.41	410.60	482.59	613.96	73.65	85.32	100.89	127.30
C	Mariposa (MC)	Annual	2021	354.35	410.60	482.48	614.20	73.67	85.35	100.93	127.34
C	Mariposa (MC)	Annual	2022	354.26	410.63	482.35	614.40	73.67	85.40	100.94	127.39
C	Mariposa (MC)	Annual	2023	354.08	410.62	482.24	614.56	73.64	85.42	100.94	127.56
C	Mariposa (MC)	Annual	2024	353.92	410.60	482.16	614.67	73.60	85.46	100.96	127.71
C	Mariposa (MC)	Annual	2025	353.86	410.66	482.10	614.79	73.60	85.52	100.99	127.87
C	Mariposa (MC)	Annual	2026	353.86	410.81	482.03	614.95	73.62	85.62	101.00	128.02
C	Mariposa (MC)	Annual	2027	353.86	410.93	481.97	615.12	73.63	85.71	101.01	128.16
C	Mariposa (MC)	Annual	2028	353.85	411.06	481.91	615.29	73.64	85.79	101.02	128.29
C	Mariposa (MC)	Annual	2029	353.83	411.19	481.84	615.47	73.64	85.87	101.02	128.41
C	Mariposa (MC)	Annual	2030	353.81	411.31	481.77	615.62	73.64	85.94	101.01	128.52
C	Mariposa (MC)	Annual	2031	353.81	411.44	481.74	615.85	73.65	86.01	101.01	128.65
C	Mariposa (MC)	Annual	2032	353.80	411.54	481.71	616.07	73.65	86.08	101.02	128.76
C	Mariposa (MC)	Annual	2033	353.80	411.63	481.68	616.27	73.66	86.13	101.02	128.86
C	Mariposa (MC)	Annual	2034	353.79	411.70	481.65	616.45	73.66	86.19	101.02	128.96
C	Mariposa (MC)	Annual	2035	353.78	411.77	481.63	616.61	73.67	86.23	101.02	129.05
C	Mariposa (MC)	Summer	2010	383.75	439.08	524.10	654.73	74.37	89.51	102.09	125.68
C	Mariposa (MC)	Summer	2011	383.98	440.10	523.79	655.48	74.22	88.77	101.86	125.71
C	Mariposa (MC)	Summer	2012	384.14	440.90	523.54	656.41	74.03	88.15	101.71	125.79
C	Mariposa (MC)	Summer	2013	384.37	441.53	523.38	657.50	73.97	87.50	101.57	125.92
C	Mariposa (MC)	Summer	2014	384.48	442.00	523.29	658.57	73.82	86.87	101.30	126.07
C	Mariposa (MC)	Summer	2015	384.66	442.44	523.21	659.71	73.83	86.45	101.16	126.26
C	Mariposa (MC)	Summer	2016	384.77	442.80	523.13	660.80	73.80	86.11	101.08	126.48
C	Mariposa (MC)	Summer	2017	384.83	443.08	523.05	661.80	73.77	85.68	101.00	126.70
C	Mariposa (MC)	Summer	2018	384.83	443.32	522.95	662.65	73.71	85.43	100.90	126.90
C	Mariposa (MC)	Summer	2019	384.80	443.56	522.85	663.34	73.61	85.35	100.87	127.11
C	Mariposa (MC)	Summer	2020	384.74	443.78	522.76	663.97	73.65	85.32	100.89	127.30
C	Mariposa (MC)	Summer	2021	384.68	443.93	522.65	664.40	73.67	85.35	100.93	127.34
C	Mariposa (MC)	Summer	2022	384.58	444.09	522.56	664.75	73.67	85.40	100.94	127.39
C	Mariposa (MC)	Summer	2023	384.42	444.21	522.47	665.02	73.64	85.42	100.94	127.56
C	Mariposa (MC)	Summer	2024	384.29	444.31	522.40	665.20	73.60	85.46	100.96	127.71
C	Mariposa (MC)	Summer	2025	384.24	444.44	522.34	665.37	73.60	85.52	100.99	127.87
C	Mariposa (MC)	Summer	2026	384.25	444.68	522.29	665.56	73.62	85.62	101.00	128.02
C	Mariposa (MC)	Summer	2027	384.26	444.88	522.24	665.76	73.63	85.71	101.01	128.16
C	Mariposa (MC)	Summer	2028	384.26	445.08	522.20	665.98	73.64	85.79	101.02	128.29
C	Mariposa (MC)	Summer	2029	384.26	445.29	522.15	666.20	73.64	85.87	101.02	128.41
C	Mariposa (MC)	Summer	2030	384.25	445.48	522.11	666.42	73.64	85.94	101.01	128.52
C	Mariposa (MC)	Summer	2031	384.25	445.67	522.08	666.71	73.65	86.01	101.01	128.65
C	Mariposa (MC)	Summer	2032	384.25	445.81	522.06	667.00	73.65	86.08	101.02	128.76
C	Mariposa (MC)	Summer	2033	384.25	445.93	522.04	667.26	73.66	86.13	101.02	128.86
C	Mariposa (MC)	Summer	2034	384.24	446.03	522.02	667.49	73.66	86.19	101.02	128.96
C	Mariposa (MC)	Summer	2035	384.23	446.10	521.99	667.70	73.67	86.23	101.02	129.05
C	Mariposa (MC)	Winter	2010	347.30	403.48	476.41	596.03	74.37	89.51	102.09	125.68
C	Mariposa (MC)	Winter	2011	347.12	403.27	475.59	596.55	74.22	88.77	101.86	125.71
C	Mariposa (MC)	Winter	2012	346.97	403.10	474.94	597.15	74.03	88.15	101.71	125.79
C	Mariposa (MC)	Winter	2013	346.97	402.89	474.42	597.81	73.97	87.50	101.57	125.92
C	Mariposa (MC)	Winter	2014	346.91	402.69	473.97	598.45	73.82	86.87	101.30	126.07
C	Mariposa (MC)	Winter	2015	346.99	402.60	473.63	599.12	73.83	86.45	101.16	126.26
C	Mariposa (MC)	Winter	2016	347.02	402.54	473.35	599.75	73.80	86.11	101.08	126.48
C	Mariposa (MC)	Winter	2017	347.05	402.44	473.14	600.35	73.77	85.68	101.00	126.70

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Mariposa (MC)	Winter	2018	347.05	402.40	472.95	600.86	73.71	85.43	100.90	126.90
C	Mariposa (MC)	Winter	2019	347.00	402.43	472.82	601.27	73.61	85.35	100.87	127.11
C	Mariposa (MC)	Winter	2020	346.95	402.43	472.71	601.65	73.65	85.32	100.89	127.30
C	Mariposa (MC)	Winter	2021	346.89	402.39	472.58	601.84	73.67	85.35	100.93	127.34
C	Mariposa (MC)	Winter	2022	346.79	402.39	472.45	602.00	73.67	85.40	100.94	127.39
C	Mariposa (MC)	Winter	2023	346.62	402.35	472.34	602.13	73.64	85.42	100.94	127.56
C	Mariposa (MC)	Winter	2024	346.44	402.31	472.26	602.23	73.60	85.46	100.96	127.71
C	Mariposa (MC)	Winter	2025	346.39	402.35	472.20	602.34	73.60	85.52	100.99	127.87
C	Mariposa (MC)	Winter	2026	346.39	402.47	472.12	602.49	73.62	85.62	101.00	128.02
C	Mariposa (MC)	Winter	2027	346.37	402.58	472.05	602.65	73.63	85.71	101.01	128.16
C	Mariposa (MC)	Winter	2028	346.37	402.69	472.00	602.81	73.64	85.79	101.02	128.29
C	Mariposa (MC)	Winter	2029	346.35	402.80	471.92	602.98	73.64	85.87	101.02	128.41
C	Mariposa (MC)	Winter	2030	346.32	402.90	471.85	603.12	73.64	85.94	101.01	128.52
C	Mariposa (MC)	Winter	2031	346.31	403.01	471.81	603.33	73.65	86.01	101.01	128.65
C	Mariposa (MC)	Winter	2032	346.31	403.10	471.78	603.54	73.65	86.08	101.02	128.76
C	Mariposa (MC)	Winter	2033	346.30	403.18	471.75	603.72	73.66	86.13	101.02	128.86
C	Mariposa (MC)	Winter	2034	346.29	403.25	471.72	603.89	73.66	86.19	101.02	128.96
C	Mariposa (MC)	Winter	2035	346.28	403.31	471.70	604.03	73.67	86.23	101.02	129.05
C	Mendocino-Coastal	Annual	2010	328.61	379.07	451.10	562.37	72.79	86.74	100.94	123.79
C	Mendocino-Coastal	Annual	2011	328.64	379.33	450.55	563.04	72.74	86.20	100.83	123.99
C	Mendocino-Coastal	Annual	2012	328.71	379.62	450.13	563.82	72.71	85.88	100.79	124.25
C	Mendocino-Coastal	Annual	2013	328.81	379.86	449.78	564.69	72.69	85.57	100.77	124.53
C	Mendocino-Coastal	Annual	2014	328.91	380.10	449.50	565.53	72.66	85.38	100.70	124.83
C	Mendocino-Coastal	Annual	2015	329.05	380.33	449.28	566.42	72.71	85.22	100.68	125.15
C	Mendocino-Coastal	Annual	2016	329.20	380.54	449.10	567.26	72.78	85.05	100.67	125.47
C	Mendocino-Coastal	Annual	2017	329.29	380.71	448.96	568.05	72.79	84.90	100.65	125.80
C	Mendocino-Coastal	Annual	2018	329.36	380.86	448.84	568.75	72.80	84.79	100.64	126.10
C	Mendocino-Coastal	Annual	2019	329.41	381.04	448.75	569.35	72.81	84.81	100.66	126.39
C	Mendocino-Coastal	Annual	2020	329.46	381.20	448.68	569.87	72.90	84.89	100.71	126.66
C	Mendocino-Coastal	Annual	2021	329.47	381.32	448.60	570.28	72.95	85.00	100.77	126.88
C	Mendocino-Coastal	Annual	2022	329.44	381.41	448.52	570.63	72.98	85.10	100.81	127.08
C	Mendocino-Coastal	Annual	2023	329.37	381.48	448.45	570.90	72.99	85.18	100.85	127.29
C	Mendocino-Coastal	Annual	2024	329.30	381.52	448.37	571.09	72.98	85.26	100.87	127.48
C	Mendocino-Coastal	Annual	2025	329.26	381.61	448.33	571.27	72.99	85.36	100.90	127.65
C	Mendocino-Coastal	Annual	2026	329.27	381.77	448.27	571.47	73.01	85.47	100.93	127.81
C	Mendocino-Coastal	Annual	2027	329.27	381.91	448.22	571.68	73.03	85.57	100.94	127.97
C	Mendocino-Coastal	Annual	2028	329.27	382.05	448.17	571.89	73.03	85.66	100.96	128.11
C	Mendocino-Coastal	Annual	2029	329.25	382.19	448.10	572.09	73.04	85.75	100.95	128.24
C	Mendocino-Coastal	Annual	2030	329.24	382.33	448.03	572.30	73.04	85.83	100.95	128.37
C	Mendocino-Coastal	Annual	2031	329.23	382.47	448.00	572.53	73.05	85.91	100.96	128.50
C	Mendocino-Coastal	Annual	2032	329.23	382.60	447.97	572.77	73.06	85.98	100.96	128.62
C	Mendocino-Coastal	Annual	2033	329.22	382.71	447.95	572.98	73.06	86.05	100.96	128.73
C	Mendocino-Coastal	Annual	2034	329.22	382.81	447.93	573.17	73.07	86.11	100.97	128.83
C	Mendocino-Coastal	Annual	2035	329.21	382.89	447.91	573.33	73.07	86.16	100.97	128.93
C	Mendocino-Coastal	Summer	2010	335.50	385.93	460.22	573.75	72.79	86.74	100.94	123.79
C	Mendocino-Coastal	Summer	2011	335.60	386.40	459.76	574.44	72.74	86.20	100.83	123.99
C	Mendocino-Coastal	Summer	2012	335.73	386.85	459.39	575.26	72.71	85.88	100.79	124.25
C	Mendocino-Coastal	Summer	2013	335.88	387.22	459.11	576.18	72.69	85.57	100.77	124.53
C	Mendocino-Coastal	Summer	2014	336.01	387.57	458.87	577.08	72.66	85.38	100.70	124.83
C	Mendocino-Coastal	Summer	2015	336.17	387.90	458.70	578.04	72.71	85.22	100.68	125.15
C	Mendocino-Coastal	Summer	2016	336.34	388.18	458.56	578.96	72.78	85.05	100.67	125.47
C	Mendocino-Coastal	Summer	2017	336.43	388.42	458.43	579.82	72.79	84.90	100.65	125.80
C	Mendocino-Coastal	Summer	2018	336.49	388.62	458.33	580.57	72.80	84.79	100.64	126.10
C	Mendocino-Coastal	Summer	2019	336.54	388.83	458.25	581.22	72.81	84.81	100.66	126.39

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Mendocino-Coastal	Summer	2020	336.59	389.03	458.18	581.78	72.90	84.89	100.71	126.66
C	Mendocino-Coastal	Summer	2021	336.60	389.18	458.11	582.21	72.95	85.00	100.77	126.88
C	Mendocino-Coastal	Summer	2022	336.57	389.31	458.03	582.59	72.98	85.10	100.81	127.08
C	Mendocino-Coastal	Summer	2023	336.50	389.40	457.96	582.88	72.99	85.18	100.85	127.29
C	Mendocino-Coastal	Summer	2024	336.43	389.46	457.89	583.08	72.98	85.26	100.87	127.48
C	Mendocino-Coastal	Summer	2025	336.39	389.57	457.85	583.26	72.99	85.36	100.90	127.65
C	Mendocino-Coastal	Summer	2026	336.40	389.75	457.79	583.47	73.01	85.47	100.93	127.81
C	Mendocino-Coastal	Summer	2027	336.41	389.91	457.74	583.68	73.03	85.57	100.94	127.97
C	Mendocino-Coastal	Summer	2028	336.41	390.07	457.70	583.89	73.03	85.66	100.96	128.11
C	Mendocino-Coastal	Summer	2029	336.40	390.24	457.63	584.11	73.04	85.75	100.95	128.24
C	Mendocino-Coastal	Summer	2030	336.39	390.39	457.57	584.32	73.04	85.83	100.95	128.37
C	Mendocino-Coastal	Summer	2031	336.39	390.55	457.53	584.57	73.05	85.91	100.96	128.50
C	Mendocino-Coastal	Summer	2032	336.38	390.69	457.51	584.82	73.06	85.98	100.96	128.62
C	Mendocino-Coastal	Summer	2033	336.38	390.81	457.48	585.05	73.06	86.05	100.96	128.73
C	Mendocino-Coastal	Summer	2034	336.37	390.92	457.46	585.25	73.07	86.11	100.97	128.83
C	Mendocino-Coastal	Summer	2035	336.36	391.01	457.44	585.42	73.07	86.16	100.97	128.93
C	Mendocino-Coastal	Winter	2010	325.36	375.84	446.80	556.99	72.79	86.74	100.94	123.79
C	Mendocino-Coastal	Winter	2011	325.35	375.99	446.21	557.66	72.74	86.20	100.83	123.99
C	Mendocino-Coastal	Winter	2012	325.39	376.21	445.75	558.43	72.71	85.88	100.79	124.25
C	Mendocino-Coastal	Winter	2013	325.47	376.38	445.38	559.27	72.69	85.57	100.77	124.53
C	Mendocino-Coastal	Winter	2014	325.56	376.57	445.08	560.08	72.66	85.38	100.70	124.83
C	Mendocino-Coastal	Winter	2015	325.69	376.77	444.84	560.93	72.71	85.22	100.68	125.15
C	Mendocino-Coastal	Winter	2016	325.84	376.93	444.64	561.74	72.78	85.05	100.67	125.47
C	Mendocino-Coastal	Winter	2017	325.92	377.08	444.49	562.50	72.79	84.90	100.65	125.80
C	Mendocino-Coastal	Winter	2018	325.99	377.20	444.36	563.17	72.80	84.79	100.64	126.10
C	Mendocino-Coastal	Winter	2019	326.04	377.36	444.27	563.75	72.81	84.81	100.66	126.39
C	Mendocino-Coastal	Winter	2020	326.10	377.51	444.20	564.26	72.90	84.89	100.71	126.66
C	Mendocino-Coastal	Winter	2021	326.10	377.61	444.12	564.65	72.95	85.00	100.77	126.88
C	Mendocino-Coastal	Winter	2022	326.08	377.69	444.04	564.99	72.98	85.10	100.81	127.08
C	Mendocino-Coastal	Winter	2023	326.01	377.75	443.96	565.25	72.99	85.18	100.85	127.29
C	Mendocino-Coastal	Winter	2024	325.93	377.77	443.88	565.44	72.98	85.26	100.87	127.48
C	Mendocino-Coastal	Winter	2025	325.89	377.86	443.83	565.61	72.99	85.36	100.90	127.65
C	Mendocino-Coastal	Winter	2026	325.90	378.00	443.78	565.81	73.01	85.47	100.93	127.81
C	Mendocino-Coastal	Winter	2027	325.90	378.13	443.72	566.01	73.03	85.57	100.94	127.97
C	Mendocino-Coastal	Winter	2028	325.90	378.27	443.68	566.22	73.03	85.66	100.96	128.11
C	Mendocino-Coastal	Winter	2029	325.88	378.40	443.60	566.42	73.04	85.75	100.95	128.24
C	Mendocino-Coastal	Winter	2030	325.86	378.53	443.54	566.62	73.04	85.83	100.95	128.37
C	Mendocino-Coastal	Winter	2031	325.86	378.66	443.50	566.86	73.05	85.91	100.96	128.50
C	Mendocino-Coastal	Winter	2032	325.85	378.78	443.47	567.09	73.06	85.98	100.96	128.62
C	Mendocino-Coastal	Winter	2033	325.85	378.89	443.45	567.29	73.06	86.05	100.96	128.73
C	Mendocino-Coastal	Winter	2034	325.84	378.99	443.43	567.47	73.07	86.11	100.97	128.83
C	Mendocino-Coastal	Winter	2035	325.83	379.07	443.41	567.63	73.07	86.16	100.97	128.93
C	Mendocino-Inland	Annual	2010	328.61	379.07	451.10	562.37	72.79	86.74	100.94	123.79
C	Mendocino-Inland	Annual	2011	328.64	379.33	450.55	563.04	72.74	86.20	100.83	123.99
C	Mendocino-Inland	Annual	2012	328.71	379.62	450.13	563.82	72.71	85.88	100.79	124.25
C	Mendocino-Inland	Annual	2013	328.81	379.86	449.78	564.69	72.69	85.57	100.77	124.53
C	Mendocino-Inland	Annual	2014	328.91	380.10	449.50	565.53	72.66	85.38	100.70	124.83
C	Mendocino-Inland	Annual	2015	329.05	380.33	449.28	566.42	72.71	85.22	100.68	125.15
C	Mendocino-Inland	Annual	2016	329.20	380.54	449.10	567.26	72.78	85.05	100.67	125.47
C	Mendocino-Inland	Annual	2017	329.29	380.71	448.96	568.05	72.79	84.90	100.65	125.80
C	Mendocino-Inland	Annual	2018	329.36	380.86	448.84	568.75	72.80	84.79	100.64	126.10
C	Mendocino-Inland	Annual	2019	329.41	381.04	448.75	569.35	72.81	84.81	100.66	126.39
C	Mendocino-Inland	Annual	2020	329.46	381.20	448.68	569.87	72.90	84.89	100.71	126.66
C	Mendocino-Inland	Annual	2021	329.47	381.32	448.60	570.28	72.95	85.00	100.77	126.88

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Mendocino-Inland	Annual	2022	329.44	381.41	448.52	570.63	72.98	85.10	100.81	127.08
C	Mendocino-Inland	Annual	2023	329.37	381.48	448.45	570.90	72.99	85.18	100.85	127.29
C	Mendocino-Inland	Annual	2024	329.30	381.52	448.37	571.09	72.98	85.26	100.87	127.48
C	Mendocino-Inland	Annual	2025	329.26	381.61	448.33	571.27	72.99	85.36	100.90	127.65
C	Mendocino-Inland	Annual	2026	329.27	381.77	448.27	571.47	73.01	85.47	100.93	127.81
C	Mendocino-Inland	Annual	2027	329.27	381.91	448.22	571.68	73.03	85.57	100.94	127.97
C	Mendocino-Inland	Annual	2028	329.27	382.05	448.17	571.89	73.03	85.66	100.96	128.11
C	Mendocino-Inland	Annual	2029	329.25	382.19	448.10	572.09	73.04	85.75	100.95	128.24
C	Mendocino-Inland	Annual	2030	329.24	382.33	448.03	572.30	73.04	85.83	100.95	128.37
C	Mendocino-Inland	Annual	2031	329.23	382.47	448.00	572.53	73.05	85.91	100.96	128.50
C	Mendocino-Inland	Annual	2032	329.23	382.60	447.97	572.77	73.06	85.98	100.96	128.62
C	Mendocino-Inland	Annual	2033	329.22	382.71	447.95	572.98	73.06	86.05	100.96	128.73
C	Mendocino-Inland	Annual	2034	329.22	382.81	447.93	573.17	73.07	86.11	100.97	128.83
C	Mendocino-Inland	Annual	2035	329.21	382.89	447.91	573.33	73.07	86.16	100.97	128.93
C	Mendocino-Inland	Summer	2010	335.50	385.93	460.22	573.75	72.79	86.74	100.94	123.79
C	Mendocino-Inland	Summer	2011	335.60	386.40	459.76	574.44	72.74	86.20	100.83	123.99
C	Mendocino-Inland	Summer	2012	335.73	386.85	459.39	575.26	72.71	85.88	100.79	124.25
C	Mendocino-Inland	Summer	2013	335.88	387.22	459.11	576.18	72.69	85.57	100.77	124.53
C	Mendocino-Inland	Summer	2014	336.01	387.57	458.87	577.08	72.66	85.38	100.70	124.83
C	Mendocino-Inland	Summer	2015	336.17	387.90	458.70	578.04	72.71	85.22	100.68	125.15
C	Mendocino-Inland	Summer	2016	336.34	388.18	458.56	578.96	72.78	85.05	100.67	125.47
C	Mendocino-Inland	Summer	2017	336.43	388.42	458.43	579.82	72.79	84.90	100.65	125.80
C	Mendocino-Inland	Summer	2018	336.49	388.62	458.33	580.57	72.80	84.79	100.64	126.10
C	Mendocino-Inland	Summer	2019	336.54	388.83	458.25	581.22	72.81	84.81	100.66	126.39
C	Mendocino-Inland	Summer	2020	336.59	389.03	458.18	581.78	72.90	84.89	100.71	126.66
C	Mendocino-Inland	Summer	2021	336.60	389.18	458.11	582.21	72.95	85.00	100.77	126.88
C	Mendocino-Inland	Summer	2022	336.57	389.31	458.03	582.59	72.98	85.10	100.81	127.08
C	Mendocino-Inland	Summer	2023	336.50	389.40	457.96	582.88	72.99	85.18	100.85	127.29
C	Mendocino-Inland	Summer	2024	336.43	389.46	457.89	583.08	72.98	85.26	100.87	127.48
C	Mendocino-Inland	Summer	2025	336.39	389.57	457.85	583.26	72.99	85.36	100.90	127.65
C	Mendocino-Inland	Summer	2026	336.40	389.75	457.79	583.47	73.01	85.47	100.93	127.81
C	Mendocino-Inland	Summer	2027	336.41	389.91	457.74	583.68	73.03	85.57	100.94	127.97
C	Mendocino-Inland	Summer	2028	336.41	390.07	457.70	583.89	73.03	85.66	100.96	128.11
C	Mendocino-Inland	Summer	2029	336.40	390.24	457.63	584.11	73.04	85.75	100.95	128.24
C	Mendocino-Inland	Summer	2030	336.39	390.39	457.57	584.32	73.04	85.83	100.95	128.37
C	Mendocino-Inland	Summer	2031	336.39	390.55	457.53	584.57	73.05	85.91	100.96	128.50
C	Mendocino-Inland	Summer	2032	336.38	390.69	457.51	584.82	73.06	85.98	100.96	128.62
C	Mendocino-Inland	Summer	2033	336.38	390.81	457.48	585.05	73.06	86.05	100.96	128.73
C	Mendocino-Inland	Summer	2034	336.37	390.92	457.46	585.25	73.07	86.11	100.97	128.83
C	Mendocino-Inland	Summer	2035	336.36	391.01	457.44	585.42	73.07	86.16	100.97	128.93
C	Mendocino-Inland	Winter	2010	325.36	375.84	446.80	556.99	72.79	86.74	100.94	123.79
C	Mendocino-Inland	Winter	2011	325.35	375.99	446.21	557.66	72.74	86.20	100.83	123.99
C	Mendocino-Inland	Winter	2012	325.39	376.21	445.75	558.43	72.71	85.88	100.79	124.25
C	Mendocino-Inland	Winter	2013	325.47	376.38	445.38	559.27	72.69	85.57	100.77	124.53
C	Mendocino-Inland	Winter	2014	325.56	376.57	445.08	560.08	72.66	85.38	100.70	124.83
C	Mendocino-Inland	Winter	2015	325.69	376.77	444.84	560.93	72.71	85.22	100.68	125.15
C	Mendocino-Inland	Winter	2016	325.84	376.93	444.64	561.74	72.78	85.05	100.67	125.47
C	Mendocino-Inland	Winter	2017	325.92	377.08	444.49	562.50	72.79	84.90	100.65	125.80
C	Mendocino-Inland	Winter	2018	325.99	377.20	444.36	563.17	72.80	84.79	100.64	126.10
C	Mendocino-Inland	Winter	2019	326.04	377.36	444.27	563.75	72.81	84.81	100.66	126.39
C	Mendocino-Inland	Winter	2020	326.10	377.51	444.20	564.26	72.90	84.89	100.71	126.66
C	Mendocino-Inland	Winter	2021	326.10	377.61	444.12	564.65	72.95	85.00	100.77	126.88
C	Mendocino-Inland	Winter	2022	326.08	377.69	444.04	564.99	72.98	85.10	100.81	127.08
C	Mendocino-Inland	Winter	2023	326.01	377.75	443.96	565.25	72.99	85.18	100.85	127.29

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Mendocino-Inland	Winter	2024	325.93	377.77	443.88	565.44	72.98	85.26	100.87	127.48
C	Mendocino-Inland	Winter	2025	325.89	377.86	443.83	565.61	72.99	85.36	100.90	127.65
C	Mendocino-Inland	Winter	2026	325.90	378.00	443.78	565.81	73.01	85.47	100.93	127.81
C	Mendocino-Inland	Winter	2027	325.90	378.13	443.72	566.01	73.03	85.57	100.94	127.97
C	Mendocino-Inland	Winter	2028	325.90	378.27	443.68	566.22	73.03	85.66	100.96	128.11
C	Mendocino-Inland	Winter	2029	325.88	378.40	443.60	566.42	73.04	85.75	100.95	128.24
C	Mendocino-Inland	Winter	2030	325.86	378.53	443.54	566.62	73.04	85.83	100.95	128.37
C	Mendocino-Inland	Winter	2031	325.86	378.66	443.50	566.86	73.05	85.91	100.96	128.50
C	Mendocino-Inland	Winter	2032	325.85	378.78	443.47	567.09	73.06	85.98	100.96	128.62
C	Mendocino-Inland	Winter	2033	325.85	378.89	443.45	567.29	73.06	86.05	100.96	128.73
C	Mendocino-Inland	Winter	2034	325.84	378.99	443.43	567.47	73.07	86.11	100.97	128.83
C	Mendocino-Inland	Winter	2035	325.83	379.07	443.41	567.63	73.07	86.16	100.97	128.93
C	Mendocino-Rural Inland North	Annual	2010	328.61	379.07	451.10	562.37	72.79	86.74	100.94	123.79
C	Mendocino-Rural Inland North	Annual	2011	328.64	379.33	450.55	563.04	72.74	86.20	100.83	123.99
C	Mendocino-Rural Inland North	Annual	2012	328.71	379.62	450.13	563.82	72.71	85.88	100.79	124.25
C	Mendocino-Rural Inland North	Annual	2013	328.81	379.86	449.78	564.69	72.69	85.57	100.77	124.53
C	Mendocino-Rural Inland North	Annual	2014	328.91	380.10	449.50	565.53	72.66	85.38	100.70	124.83
C	Mendocino-Rural Inland North	Annual	2015	329.05	380.33	449.28	566.42	72.71	85.22	100.68	125.15
C	Mendocino-Rural Inland North	Annual	2016	329.20	380.54	449.10	567.26	72.78	85.05	100.67	125.47
C	Mendocino-Rural Inland North	Annual	2017	329.29	380.71	448.96	568.05	72.79	84.90	100.65	125.80
C	Mendocino-Rural Inland North	Annual	2018	329.36	380.86	448.84	568.75	72.80	84.79	100.64	126.10
C	Mendocino-Rural Inland North	Annual	2019	329.41	381.04	448.75	569.35	72.81	84.81	100.66	126.39
C	Mendocino-Rural Inland North	Annual	2020	329.46	381.20	448.68	569.87	72.90	84.89	100.71	126.66
C	Mendocino-Rural Inland North	Annual	2021	329.47	381.32	448.60	570.28	72.95	85.00	100.77	126.88
C	Mendocino-Rural Inland North	Annual	2022	329.44	381.41	448.52	570.63	72.98	85.10	100.81	127.08
C	Mendocino-Rural Inland North	Annual	2023	329.37	381.48	448.45	570.90	72.99	85.18	100.85	127.29
C	Mendocino-Rural Inland North	Annual	2024	329.30	381.52	448.37	571.09	72.98	85.26	100.87	127.48
C	Mendocino-Rural Inland North	Annual	2025	329.26	381.61	448.33	571.27	72.99	85.36	100.90	127.65
C	Mendocino-Rural Inland North	Annual	2026	329.27	381.77	448.27	571.47	73.01	85.47	100.93	127.81
C	Mendocino-Rural Inland North	Annual	2027	329.27	381.91	448.22	571.68	73.03	85.57	100.94	127.97
C	Mendocino-Rural Inland North	Annual	2028	329.27	382.05	448.17	571.89	73.03	85.66	100.96	128.11
C	Mendocino-Rural Inland North	Annual	2029	329.25	382.19	448.10	572.09	73.04	85.75	100.95	128.24
C	Mendocino-Rural Inland North	Annual	2030	329.24	382.33	448.03	572.30	73.04	85.83	100.95	128.37
C	Mendocino-Rural Inland North	Annual	2031	329.23	382.47	448.00	572.53	73.05	85.91	100.96	128.50
C	Mendocino-Rural Inland North	Annual	2032	329.23	382.60	447.97	572.77	73.06	85.98	100.96	128.62
C	Mendocino-Rural Inland North	Annual	2033	329.22	382.71	447.95	572.98	73.06	86.05	100.96	128.73
C	Mendocino-Rural Inland North	Annual	2034	329.22	382.81	447.93	573.17	73.07	86.11	100.97	128.83
C	Mendocino-Rural Inland North	Annual	2035	329.21	382.89	447.91	573.33	73.07	86.16	100.97	128.93
C	Mendocino-Rural Inland North	Summer	2010	335.50	385.93	460.22	573.75	72.79	86.74	100.94	123.79
C	Mendocino-Rural Inland North	Summer	2011	335.60	386.40	459.76	574.44	72.74	86.20	100.83	123.99
C	Mendocino-Rural Inland North	Summer	2012	335.73	386.85	459.39	575.26	72.71	85.88	100.79	124.25
C	Mendocino-Rural Inland North	Summer	2013	335.88	387.22	459.11	576.18	72.69	85.57	100.77	124.53
C	Mendocino-Rural Inland North	Summer	2014	336.01	387.57	458.87	577.08	72.66	85.38	100.70	124.83
C	Mendocino-Rural Inland North	Summer	2015	336.17	387.90	458.70	578.04	72.71	85.22	100.68	125.15
C	Mendocino-Rural Inland North	Summer	2016	336.34	388.18	458.56	578.96	72.78	85.05	100.67	125.47
C	Mendocino-Rural Inland North	Summer	2017	336.43	388.42	458.43	579.82	72.79	84.90	100.65	125.80
C	Mendocino-Rural Inland North	Summer	2018	336.49	388.62	458.33	580.57	72.80	84.79	100.64	126.10
C	Mendocino-Rural Inland North	Summer	2019	336.54	388.83	458.25	581.22	72.81	84.81	100.66	126.39
C	Mendocino-Rural Inland North	Summer	2020	336.59	389.03	458.18	581.78	72.90	84.89	100.71	126.66
C	Mendocino-Rural Inland North	Summer	2021	336.60	389.18	458.11	582.21	72.95	85.00	100.77	126.88
C	Mendocino-Rural Inland North	Summer	2022	336.57	389.31	458.03	582.59	72.98	85.10	100.81	127.08
C	Mendocino-Rural Inland North	Summer	2023	336.50	389.40	457.96	582.88	72.99	85.18	100.85	127.29
C	Mendocino-Rural Inland North	Summer	2024	336.43	389.46	457.89	583.08	72.98	85.26	100.87	127.48
C	Mendocino-Rural Inland North	Summer	2025	336.39	389.57	457.85	583.26	72.99	85.36	100.90	127.65

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Mendocino-Rural Inland North	Summer	2026	336.40	389.75	457.79	583.47	73.01	85.47	100.93	127.81
C	Mendocino-Rural Inland North	Summer	2027	336.41	389.91	457.74	583.68	73.03	85.57	100.94	127.97
C	Mendocino-Rural Inland North	Summer	2028	336.41	390.07	457.70	583.89	73.03	85.66	100.96	128.11
C	Mendocino-Rural Inland North	Summer	2029	336.40	390.24	457.63	584.11	73.04	85.75	100.95	128.24
C	Mendocino-Rural Inland North	Summer	2030	336.39	390.39	457.57	584.32	73.04	85.83	100.95	128.37
C	Mendocino-Rural Inland North	Summer	2031	336.39	390.55	457.53	584.57	73.05	85.91	100.96	128.50
C	Mendocino-Rural Inland North	Summer	2032	336.38	390.69	457.51	584.82	73.06	85.98	100.96	128.62
C	Mendocino-Rural Inland North	Summer	2033	336.38	390.81	457.48	585.05	73.06	86.05	100.96	128.73
C	Mendocino-Rural Inland North	Summer	2034	336.37	390.92	457.46	585.25	73.07	86.11	100.97	128.83
C	Mendocino-Rural Inland North	Summer	2035	336.36	391.01	457.44	585.42	73.07	86.16	100.97	128.93
C	Mendocino-Rural Inland North	Winter	2010	325.36	375.84	446.80	556.99	72.79	86.74	100.94	123.79
C	Mendocino-Rural Inland North	Winter	2011	325.35	375.99	446.21	557.66	72.74	86.20	100.83	123.99
C	Mendocino-Rural Inland North	Winter	2012	325.39	376.21	445.75	558.43	72.71	85.88	100.79	124.25
C	Mendocino-Rural Inland North	Winter	2013	325.47	376.38	445.38	559.27	72.69	85.57	100.77	124.53
C	Mendocino-Rural Inland North	Winter	2014	325.56	376.57	445.08	560.08	72.66	85.38	100.70	124.83
C	Mendocino-Rural Inland North	Winter	2015	325.69	376.77	444.84	560.93	72.71	85.22	100.68	125.15
C	Mendocino-Rural Inland North	Winter	2016	325.84	376.93	444.64	561.74	72.78	85.05	100.67	125.47
C	Mendocino-Rural Inland North	Winter	2017	325.92	377.08	444.49	562.50	72.79	84.90	100.65	125.80
C	Mendocino-Rural Inland North	Winter	2018	325.99	377.20	444.36	563.17	72.80	84.79	100.64	126.10
C	Mendocino-Rural Inland North	Winter	2019	326.04	377.36	444.27	563.75	72.81	84.81	100.66	126.39
C	Mendocino-Rural Inland North	Winter	2020	326.10	377.51	444.20	564.26	72.90	84.89	100.71	126.66
C	Mendocino-Rural Inland North	Winter	2021	326.10	377.61	444.12	564.65	72.95	85.00	100.77	126.88
C	Mendocino-Rural Inland North	Winter	2022	326.08	377.69	444.04	564.99	72.98	85.10	100.81	127.08
C	Mendocino-Rural Inland North	Winter	2023	326.01	377.75	443.96	565.25	72.99	85.18	100.85	127.29
C	Mendocino-Rural Inland North	Winter	2024	325.93	377.77	443.88	565.44	72.98	85.26	100.87	127.48
C	Mendocino-Rural Inland North	Winter	2025	325.89	377.86	443.83	565.61	72.99	85.36	100.90	127.65
C	Mendocino-Rural Inland North	Winter	2026	325.90	378.00	443.78	565.81	73.01	85.47	100.93	127.81
C	Mendocino-Rural Inland North	Winter	2027	325.90	378.13	443.72	566.01	73.03	85.57	100.94	127.97
C	Mendocino-Rural Inland North	Winter	2028	325.90	378.27	443.68	566.22	73.03	85.66	100.96	128.11
C	Mendocino-Rural Inland North	Winter	2029	325.88	378.40	443.60	566.42	73.04	85.75	100.95	128.24
C	Mendocino-Rural Inland North	Winter	2030	325.86	378.53	443.54	566.62	73.04	85.83	100.95	128.37
C	Mendocino-Rural Inland North	Winter	2031	325.86	378.66	443.50	566.86	73.05	85.91	100.96	128.50
C	Mendocino-Rural Inland North	Winter	2032	325.85	378.78	443.47	567.09	73.06	85.98	100.96	128.62
C	Mendocino-Rural Inland North	Winter	2033	325.85	378.89	443.45	567.29	73.06	86.05	100.96	128.73
C	Mendocino-Rural Inland North	Winter	2034	325.84	378.99	443.43	567.47	73.07	86.11	100.97	128.83
C	Mendocino-Rural Inland North	Winter	2035	325.83	379.07	443.41	567.63	73.07	86.16	100.97	128.93
C	Mendocino-Rural Inland South	Annual	2010	328.61	379.07	451.10	562.37	72.79	86.74	100.94	123.79
C	Mendocino-Rural Inland South	Annual	2011	328.64	379.33	450.55	563.04	72.74	86.20	100.83	123.99
C	Mendocino-Rural Inland South	Annual	2012	328.71	379.62	450.13	563.82	72.71	85.88	100.79	124.25
C	Mendocino-Rural Inland South	Annual	2013	328.81	379.86	449.78	564.69	72.69	85.57	100.77	124.53
C	Mendocino-Rural Inland South	Annual	2014	328.91	380.10	449.50	565.53	72.66	85.38	100.70	124.83
C	Mendocino-Rural Inland South	Annual	2015	329.05	380.33	449.28	566.42	72.71	85.22	100.68	125.15
C	Mendocino-Rural Inland South	Annual	2016	329.20	380.54	449.10	567.26	72.78	85.05	100.67	125.47
C	Mendocino-Rural Inland South	Annual	2017	329.29	380.71	448.96	568.05	72.79	84.90	100.65	125.80
C	Mendocino-Rural Inland South	Annual	2018	329.36	380.86	448.84	568.75	72.80	84.79	100.64	126.10
C	Mendocino-Rural Inland South	Annual	2019	329.41	381.04	448.75	569.35	72.81	84.81	100.66	126.39
C	Mendocino-Rural Inland South	Annual	2020	329.46	381.20	448.68	569.87	72.90	84.89	100.71	126.66
C	Mendocino-Rural Inland South	Annual	2021	329.47	381.32	448.60	570.28	72.95	85.00	100.77	126.88
C	Mendocino-Rural Inland South	Annual	2022	329.44	381.41	448.52	570.63	72.98	85.10	100.81	127.08
C	Mendocino-Rural Inland South	Annual	2023	329.37	381.48	448.45	570.90	72.99	85.18	100.85	127.29
C	Mendocino-Rural Inland South	Annual	2024	329.30	381.52	448.37	571.09	72.98	85.26	100.87	127.48
C	Mendocino-Rural Inland South	Annual	2025	329.26	381.61	448.33	571.27	72.99	85.36	100.90	127.65
C	Mendocino-Rural Inland South	Annual	2026	329.27	381.77	448.27	571.47	73.01	85.47	100.93	127.81
C	Mendocino-Rural Inland South	Annual	2027	329.27	381.91	448.22	571.68	73.03	85.57	100.94	127.97

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Mendocino-Rural Inland South	Annual	2028	329.27	382.05	448.17	571.89	73.03	85.66	100.96	128.11
C	Mendocino-Rural Inland South	Annual	2029	329.25	382.19	448.10	572.09	73.04	85.75	100.95	128.24
C	Mendocino-Rural Inland South	Annual	2030	329.24	382.33	448.03	572.30	73.04	85.83	100.95	128.37
C	Mendocino-Rural Inland South	Annual	2031	329.23	382.47	448.00	572.53	73.05	85.91	100.96	128.50
C	Mendocino-Rural Inland South	Annual	2032	329.23	382.60	447.97	572.77	73.06	85.98	100.96	128.62
C	Mendocino-Rural Inland South	Annual	2033	329.22	382.71	447.95	572.98	73.06	86.05	100.96	128.73
C	Mendocino-Rural Inland South	Annual	2034	329.22	382.81	447.93	573.17	73.07	86.11	100.97	128.83
C	Mendocino-Rural Inland South	Annual	2035	329.21	382.89	447.91	573.33	73.07	86.16	100.97	128.93
C	Mendocino-Rural Inland South	Summer	2010	335.50	385.93	460.22	573.75	72.79	86.74	100.94	123.79
C	Mendocino-Rural Inland South	Summer	2011	335.60	386.40	459.76	574.44	72.74	86.20	100.83	123.99
C	Mendocino-Rural Inland South	Summer	2012	335.73	386.85	459.39	575.26	72.71	85.88	100.79	124.25
C	Mendocino-Rural Inland South	Summer	2013	335.88	387.22	459.11	576.18	72.69	85.57	100.77	124.53
C	Mendocino-Rural Inland South	Summer	2014	336.01	387.57	458.87	577.08	72.66	85.38	100.70	124.83
C	Mendocino-Rural Inland South	Summer	2015	336.17	387.90	458.70	578.04	72.71	85.22	100.68	125.15
C	Mendocino-Rural Inland South	Summer	2016	336.34	388.18	458.56	578.96	72.78	85.05	100.67	125.47
C	Mendocino-Rural Inland South	Summer	2017	336.43	388.42	458.43	579.82	72.79	84.90	100.65	125.80
C	Mendocino-Rural Inland South	Summer	2018	336.49	388.62	458.33	580.57	72.80	84.79	100.64	126.10
C	Mendocino-Rural Inland South	Summer	2019	336.54	388.83	458.25	581.22	72.81	84.81	100.66	126.39
C	Mendocino-Rural Inland South	Summer	2020	336.59	389.03	458.18	581.78	72.90	84.89	100.71	126.66
C	Mendocino-Rural Inland South	Summer	2021	336.60	389.18	458.11	582.21	72.95	85.00	100.77	126.88
C	Mendocino-Rural Inland South	Summer	2022	336.57	389.31	458.03	582.59	72.98	85.10	100.81	127.08
C	Mendocino-Rural Inland South	Summer	2023	336.50	389.40	457.96	582.88	72.99	85.18	100.85	127.29
C	Mendocino-Rural Inland South	Summer	2024	336.43	389.46	457.89	583.08	72.98	85.26	100.87	127.48
C	Mendocino-Rural Inland South	Summer	2025	336.39	389.57	457.85	583.26	72.99	85.36	100.90	127.65
C	Mendocino-Rural Inland South	Summer	2026	336.40	389.75	457.79	583.47	73.01	85.47	100.93	127.81
C	Mendocino-Rural Inland South	Summer	2027	336.41	389.91	457.74	583.68	73.03	85.57	100.94	127.97
C	Mendocino-Rural Inland South	Summer	2028	336.41	390.07	457.70	583.89	73.03	85.66	100.96	128.11
C	Mendocino-Rural Inland South	Summer	2029	336.40	390.24	457.63	584.11	73.04	85.75	100.95	128.24
C	Mendocino-Rural Inland South	Summer	2030	336.39	390.39	457.57	584.32	73.04	85.83	100.95	128.37
C	Mendocino-Rural Inland South	Summer	2031	336.39	390.55	457.53	584.57	73.05	85.91	100.96	128.50
C	Mendocino-Rural Inland South	Summer	2032	336.38	390.69	457.51	584.82	73.06	85.98	100.96	128.62
C	Mendocino-Rural Inland South	Summer	2033	336.38	390.81	457.48	585.05	73.06	86.05	100.96	128.73
C	Mendocino-Rural Inland South	Summer	2034	336.37	390.92	457.46	585.25	73.07	86.11	100.97	128.83
C	Mendocino-Rural Inland South	Summer	2035	336.36	391.01	457.44	585.42	73.07	86.16	100.97	128.93
C	Mendocino-Rural Inland South	Winter	2010	325.36	375.84	446.80	556.99	72.79	86.74	100.94	123.79
C	Mendocino-Rural Inland South	Winter	2011	325.35	375.99	446.21	557.66	72.74	86.20	100.83	123.99
C	Mendocino-Rural Inland South	Winter	2012	325.39	376.21	445.75	558.43	72.71	85.88	100.79	124.25
C	Mendocino-Rural Inland South	Winter	2013	325.47	376.38	445.38	559.27	72.69	85.57	100.77	124.53
C	Mendocino-Rural Inland South	Winter	2014	325.56	376.57	445.08	560.08	72.66	85.38	100.70	124.83
C	Mendocino-Rural Inland South	Winter	2015	325.69	376.77	444.84	560.93	72.71	85.22	100.68	125.15
C	Mendocino-Rural Inland South	Winter	2016	325.84	376.93	444.64	561.74	72.78	85.05	100.67	125.47
C	Mendocino-Rural Inland South	Winter	2017	325.92	377.08	444.49	562.50	72.79	84.90	100.65	125.80
C	Mendocino-Rural Inland South	Winter	2018	325.99	377.20	444.36	563.17	72.80	84.79	100.64	126.10
C	Mendocino-Rural Inland South	Winter	2019	326.04	377.36	444.27	563.75	72.81	84.81	100.66	126.39
C	Mendocino-Rural Inland South	Winter	2020	326.10	377.51	444.20	564.26	72.90	84.89	100.71	126.66
C	Mendocino-Rural Inland South	Winter	2021	326.10	377.61	444.12	564.65	72.95	85.00	100.77	126.88
C	Mendocino-Rural Inland South	Winter	2022	326.08	377.69	444.04	564.99	72.98	85.10	100.81	127.08
C	Mendocino-Rural Inland South	Winter	2023	326.01	377.75	443.96	565.25	72.99	85.18	100.85	127.29
C	Mendocino-Rural Inland South	Winter	2024	325.93	377.77	443.88	565.44	72.98	85.26	100.87	127.48
C	Mendocino-Rural Inland South	Winter	2025	325.89	377.86	443.83	565.61	72.99	85.36	100.90	127.65
C	Mendocino-Rural Inland South	Winter	2026	325.90	378.00	443.78	565.81	73.01	85.47	100.93	127.81
C	Mendocino-Rural Inland South	Winter	2027	325.90	378.13	443.72	566.01	73.03	85.57	100.94	127.97
C	Mendocino-Rural Inland South	Winter	2028	325.90	378.27	443.68	566.22	73.03	85.66	100.96	128.11
C	Mendocino-Rural Inland South	Winter	2029	325.88	378.40	443.60	566.42	73.04	85.75	100.95	128.24

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Mendocino-Rural Inland South	Winter	2030	325.86	378.53	443.54	566.62	73.04	85.83	100.95	128.37
C	Mendocino-Rural Inland South	Winter	2031	325.86	378.66	443.50	566.86	73.05	85.91	100.96	128.50
C	Mendocino-Rural Inland South	Winter	2032	325.85	378.78	443.47	567.09	73.06	85.98	100.96	128.62
C	Mendocino-Rural Inland South	Winter	2033	325.85	378.89	443.45	567.29	73.06	86.05	100.96	128.73
C	Mendocino-Rural Inland South	Winter	2034	325.84	378.99	443.43	567.47	73.07	86.11	100.97	128.83
C	Mendocino-Rural Inland South	Winter	2035	325.83	379.07	443.41	567.63	73.07	86.16	100.97	128.93
C	Merced (SJV)	Annual	2010	340.87	390.90	467.36	584.95	73.16	85.59	100.55	123.92
C	Merced (SJV)	Annual	2011	341.18	391.95	467.11	585.80	73.17	85.25	100.50	124.18
C	Merced (SJV)	Annual	2012	342.08	393.49	467.75	587.72	73.22	85.08	100.47	124.45
C	Merced (SJV)	Annual	2013	343.97	396.08	469.80	591.52	73.28	84.93	100.46	124.78
C	Merced (SJV)	Annual	2014	344.21	396.70	469.70	592.50	73.32	84.82	100.47	125.10
C	Merced (SJV)	Annual	2015	346.14	399.22	471.93	596.45	73.40	84.76	100.47	125.45
C	Merced (SJV)	Annual	2016	346.35	399.69	471.87	597.40	73.48	84.69	100.48	125.80
C	Merced (SJV)	Annual	2017	346.49	400.09	471.80	598.27	73.51	84.64	100.48	126.15
C	Merced (SJV)	Annual	2018	349.13	403.34	475.20	603.39	73.57	84.61	100.50	126.47
C	Merced (SJV)	Annual	2019	349.23	403.65	475.15	604.02	73.62	84.72	100.53	126.76
C	Merced (SJV)	Annual	2020	349.30	403.93	475.11	604.59	73.71	84.85	100.61	127.03
C	Merced (SJV)	Annual	2021	351.18	406.32	477.56	608.27	73.78	85.02	100.69	127.27
C	Merced (SJV)	Annual	2022	351.21	406.57	477.54	608.69	73.83	85.17	100.76	127.46
C	Merced (SJV)	Annual	2023	351.21	406.77	477.51	609.02	73.86	85.30	100.81	127.68
C	Merced (SJV)	Annual	2024	352.65	408.63	479.46	611.80	73.88	85.42	100.85	127.88
C	Merced (SJV)	Annual	2025	352.66	408.77	479.44	612.05	73.90	85.52	100.89	128.06
C	Merced (SJV)	Annual	2026	355.16	411.82	482.81	616.64	73.92	85.62	100.91	128.23
C	Merced (SJV)	Annual	2027	355.17	411.96	482.79	616.85	73.93	85.71	100.93	128.38
C	Merced (SJV)	Annual	2028	355.18	412.10	482.76	617.06	73.94	85.80	100.95	128.51
C	Merced (SJV)	Annual	2029	355.18	412.22	482.73	617.26	73.95	85.87	100.95	128.63
C	Merced (SJV)	Annual	2030	355.17	412.35	482.71	617.45	73.95	85.94	100.96	128.75
C	Merced (SJV)	Annual	2031	355.17	412.47	482.69	617.62	73.96	86.01	100.97	128.85
C	Merced (SJV)	Annual	2032	355.17	412.57	482.67	617.79	73.96	86.07	100.97	128.94
C	Merced (SJV)	Annual	2033	355.17	412.66	482.65	617.95	73.97	86.12	100.98	129.03
C	Merced (SJV)	Annual	2034	355.17	412.73	482.64	618.09	73.97	86.17	100.98	129.10
C	Merced (SJV)	Annual	2035	355.17	412.79	482.63	618.21	73.97	86.21	100.99	129.17
C	Merced (SJV)	Summer	2010	373.91	424.50	510.75	639.39	73.16	85.59	100.55	123.92
C	Merced (SJV)	Summer	2011	374.54	426.53	510.92	640.32	73.17	85.25	100.50	124.18
C	Merced (SJV)	Summer	2012	375.72	428.80	511.95	642.49	73.22	85.08	100.47	124.45
C	Merced (SJV)	Summer	2013	377.96	432.14	514.48	646.83	73.28	84.93	100.46	124.78
C	Merced (SJV)	Summer	2014	378.33	433.19	514.60	648.11	73.32	84.82	100.47	125.10
C	Merced (SJV)	Summer	2015	380.53	436.25	517.25	652.67	73.40	84.76	100.47	125.45
C	Merced (SJV)	Summer	2016	380.80	437.00	517.32	653.93	73.48	84.69	100.48	125.80
C	Merced (SJV)	Summer	2017	380.97	437.61	517.33	655.06	73.51	84.64	100.48	126.15
C	Merced (SJV)	Summer	2018	383.85	441.28	521.08	660.79	73.57	84.61	100.50	126.47
C	Merced (SJV)	Summer	2019	383.93	441.70	521.02	661.58	73.62	84.72	100.53	126.76
C	Merced (SJV)	Summer	2020	383.99	442.07	520.96	662.27	73.71	84.85	100.61	127.03
C	Merced (SJV)	Summer	2021	386.07	444.82	523.67	666.43	73.78	85.02	100.69	127.27
C	Merced (SJV)	Summer	2022	386.11	445.19	523.65	666.97	73.83	85.17	100.76	127.46
C	Merced (SJV)	Summer	2023	386.12	445.49	523.63	667.38	73.86	85.30	100.81	127.68
C	Merced (SJV)	Summer	2024	387.72	447.60	525.78	670.47	73.88	85.42	100.85	127.88
C	Merced (SJV)	Summer	2025	387.74	447.82	525.78	670.75	73.90	85.52	100.89	128.06
C	Merced (SJV)	Summer	2026	390.50	451.22	529.48	675.75	73.92	85.62	100.91	128.23
C	Merced (SJV)	Summer	2027	390.51	451.41	529.46	675.97	73.93	85.71	100.93	128.38
C	Merced (SJV)	Summer	2028	390.52	451.60	529.44	676.18	73.94	85.80	100.95	128.51
C	Merced (SJV)	Summer	2029	390.53	451.78	529.41	676.38	73.95	85.87	100.95	128.63
C	Merced (SJV)	Summer	2030	390.53	451.95	529.39	676.58	73.95	85.94	100.96	128.75
C	Merced (SJV)	Summer	2031	390.53	452.12	529.34	676.72	73.96	86.01	100.97	128.85

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Merced (SJV)	Summer	2032	390.53	452.26	529.30	676.87	73.96	86.07	100.97	128.94
C	Merced (SJV)	Summer	2033	390.53	452.37	529.27	677.03	73.97	86.12	100.98	129.03
C	Merced (SJV)	Summer	2034	390.53	452.46	529.26	677.19	73.97	86.17	100.98	129.10
C	Merced (SJV)	Summer	2035	390.53	452.53	529.24	677.34	73.97	86.21	100.99	129.17
C	Merced (SJV)	Winter	2010	329.03	378.86	451.81	565.43	73.16	85.59	100.55	123.92
C	Merced (SJV)	Winter	2011	329.22	379.55	451.41	566.25	73.17	85.25	100.50	124.18
C	Merced (SJV)	Winter	2012	330.02	380.82	451.91	568.09	73.22	85.08	100.47	124.45
C	Merced (SJV)	Winter	2013	331.78	383.15	453.79	571.69	73.28	84.93	100.46	124.78
C	Merced (SJV)	Winter	2014	331.98	383.62	453.60	572.57	73.32	84.82	100.47	125.10
C	Merced (SJV)	Winter	2015	333.81	385.94	455.69	576.30	73.40	84.76	100.47	125.45
C	Merced (SJV)	Winter	2016	334.00	386.31	455.57	577.14	73.48	84.69	100.48	125.80
C	Merced (SJV)	Winter	2017	334.13	386.64	455.48	577.91	73.51	84.64	100.48	126.15
C	Merced (SJV)	Winter	2018	336.69	389.74	458.76	582.81	73.57	84.61	100.50	126.47
C	Merced (SJV)	Winter	2019	336.79	390.02	458.71	583.39	73.62	84.72	100.53	126.76
C	Merced (SJV)	Winter	2020	336.87	390.25	458.68	583.91	73.71	84.85	100.61	127.03
C	Merced (SJV)	Winter	2021	338.67	392.52	461.04	587.42	73.78	85.02	100.69	127.27
C	Merced (SJV)	Winter	2022	338.70	392.73	461.01	587.80	73.83	85.17	100.76	127.46
C	Merced (SJV)	Winter	2023	338.70	392.89	460.97	588.09	73.86	85.30	100.81	127.68
C	Merced (SJV)	Winter	2024	340.08	394.65	462.85	590.78	73.88	85.42	100.85	127.88
C	Merced (SJV)	Winter	2025	340.08	394.77	462.82	591.01	73.90	85.52	100.89	128.06
C	Merced (SJV)	Winter	2026	342.49	397.70	466.08	595.45	73.92	85.62	100.91	128.23
C	Merced (SJV)	Winter	2027	342.50	397.82	466.06	595.66	73.93	85.71	100.93	128.38
C	Merced (SJV)	Winter	2028	342.50	397.93	466.03	595.87	73.94	85.80	100.95	128.51
C	Merced (SJV)	Winter	2029	342.50	398.05	466.00	596.07	73.95	85.87	100.95	128.63
C	Merced (SJV)	Winter	2030	342.50	398.15	465.98	596.26	73.95	85.94	100.96	128.75
C	Merced (SJV)	Winter	2031	342.50	398.25	465.97	596.43	73.96	86.01	100.97	128.85
C	Merced (SJV)	Winter	2032	342.50	398.34	465.96	596.61	73.96	86.07	100.97	128.94
C	Merced (SJV)	Winter	2033	342.50	398.42	465.94	596.76	73.97	86.12	100.98	129.03
C	Merced (SJV)	Winter	2034	342.49	398.49	465.93	596.90	73.97	86.17	100.98	129.10
C	Merced (SJV)	Winter	2035	342.49	398.55	465.92	597.02	73.97	86.21	100.99	129.17
C	Modoc (NEP)	Annual	2010	408.79	488.59	560.53	697.57	74.87	100.48	102.62	125.01
C	Modoc (NEP)	Annual	2011	408.63	485.64	559.72	698.46	74.72	97.48	102.30	125.08
C	Modoc (NEP)	Annual	2012	408.43	483.59	559.09	699.50	74.39	95.30	102.13	125.22
C	Modoc (NEP)	Annual	2013	408.39	482.13	558.57	700.69	74.23	93.74	101.93	125.38
C	Modoc (NEP)	Annual	2014	408.30	480.62	558.13	701.74	73.97	91.96	101.58	125.59
C	Modoc (NEP)	Annual	2015	408.25	479.23	557.81	702.85	73.76	90.19	101.45	125.82
C	Modoc (NEP)	Annual	2016	408.36	478.26	557.54	703.92	73.79	88.96	101.31	126.08
C	Modoc (NEP)	Annual	2017	408.32	477.36	557.31	704.96	73.64	87.77	101.05	126.34
C	Modoc (NEP)	Annual	2018	408.22	476.76	557.13	705.82	73.43	87.03	100.91	126.59
C	Modoc (NEP)	Annual	2019	408.20	476.34	556.98	706.60	73.35	86.56	100.78	126.79
C	Modoc (NEP)	Annual	2020	408.15	475.96	556.87	707.25	73.39	86.27	100.81	127.00
C	Modoc (NEP)	Annual	2021	408.10	475.54	556.77	707.69	73.42	86.13	100.87	127.13
C	Modoc (NEP)	Annual	2022	408.00	475.17	556.62	708.03	73.42	86.00	100.88	127.20
C	Modoc (NEP)	Annual	2023	407.93	474.79	556.52	708.27	73.44	85.87	100.91	127.38
C	Modoc (NEP)	Annual	2024	407.79	474.58	556.39	708.49	73.41	85.82	100.92	127.55
C	Modoc (NEP)	Annual	2025	407.72	474.59	556.34	708.71	73.41	85.87	100.96	127.72
C	Modoc (NEP)	Annual	2026	407.73	474.69	556.26	709.00	73.43	85.94	100.98	127.90
C	Modoc (NEP)	Annual	2027	407.73	474.80	556.20	709.30	73.44	86.00	100.99	128.07
C	Modoc (NEP)	Annual	2028	407.71	474.90	556.15	709.60	73.44	86.06	101.01	128.22
C	Modoc (NEP)	Annual	2029	407.70	475.01	556.08	709.88	73.45	86.12	101.01	128.36
C	Modoc (NEP)	Annual	2030	407.68	475.10	556.00	710.15	73.45	86.17	101.01	128.50
C	Modoc (NEP)	Annual	2031	407.69	475.22	555.95	710.46	73.45	86.22	101.01	128.63
C	Modoc (NEP)	Annual	2032	407.68	475.32	555.91	710.77	73.46	86.27	101.01	128.76
C	Modoc (NEP)	Annual	2033	407.68	475.40	555.88	711.04	73.47	86.31	101.01	128.87

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Modoc (NEP)	Annual	2034	407.67	475.47	555.85	711.29	73.47	86.35	101.01	128.97
C	Modoc (NEP)	Annual	2035	407.66	475.53	555.81	711.49	73.48	86.38	101.02	129.07
C	Modoc (NEP)	Summer	2010	425.39	503.36	582.23	724.10	74.87	100.48	102.62	125.01
C	Modoc (NEP)	Summer	2011	425.44	501.48	581.68	725.15	74.72	97.48	102.30	125.08
C	Modoc (NEP)	Summer	2012	425.41	500.15	581.24	726.37	74.39	95.30	102.13	125.22
C	Modoc (NEP)	Summer	2013	425.50	499.17	580.90	727.80	74.23	93.74	101.93	125.38
C	Modoc (NEP)	Summer	2014	425.50	498.13	580.66	729.05	73.97	91.96	101.58	125.59
C	Modoc (NEP)	Summer	2015	425.50	497.14	580.45	730.41	73.76	90.19	101.45	125.82
C	Modoc (NEP)	Summer	2016	425.64	496.45	580.30	731.70	73.79	88.96	101.31	126.08
C	Modoc (NEP)	Summer	2017	425.62	495.80	580.16	732.94	73.64	87.77	101.05	126.34
C	Modoc (NEP)	Summer	2018	425.52	495.35	580.02	733.96	73.43	87.03	100.91	126.59
C	Modoc (NEP)	Summer	2019	425.50	495.06	579.91	734.91	73.35	86.56	100.78	126.79
C	Modoc (NEP)	Summer	2020	425.44	494.80	579.80	735.68	73.39	86.27	100.81	127.00
C	Modoc (NEP)	Summer	2021	425.39	494.51	579.70	736.23	73.42	86.13	100.87	127.13
C	Modoc (NEP)	Summer	2022	425.28	494.26	579.57	736.66	73.42	86.00	100.88	127.20
C	Modoc (NEP)	Summer	2023	425.21	493.99	579.47	736.98	73.44	85.87	100.91	127.38
C	Modoc (NEP)	Summer	2024	425.08	493.85	579.37	737.26	73.41	85.82	100.92	127.55
C	Modoc (NEP)	Summer	2025	425.02	493.90	579.31	737.53	73.41	85.87	100.96	127.72
C	Modoc (NEP)	Summer	2026	425.03	494.03	579.22	737.87	73.43	85.94	100.98	127.90
C	Modoc (NEP)	Summer	2027	425.04	494.17	579.16	738.21	73.44	86.00	100.99	128.07
C	Modoc (NEP)	Summer	2028	425.05	494.30	579.11	738.56	73.44	86.06	101.01	128.22
C	Modoc (NEP)	Summer	2029	425.05	494.46	579.05	738.88	73.45	86.12	101.01	128.36
C	Modoc (NEP)	Summer	2030	425.04	494.57	578.98	739.20	73.45	86.17	101.01	128.50
C	Modoc (NEP)	Summer	2031	425.05	494.75	578.95	739.54	73.45	86.22	101.01	128.63
C	Modoc (NEP)	Summer	2032	425.05	494.88	578.93	739.88	73.46	86.27	101.01	128.76
C	Modoc (NEP)	Summer	2033	425.05	494.99	578.91	740.18	73.47	86.31	101.01	128.87
C	Modoc (NEP)	Summer	2034	425.04	495.08	578.89	740.44	73.47	86.35	101.01	128.97
C	Modoc (NEP)	Summer	2035	425.03	495.14	578.86	740.68	73.48	86.38	101.02	129.07
C	Modoc (NEP)	Winter	2010	403.43	483.82	553.52	689.00	74.87	100.48	102.62	125.01
C	Modoc (NEP)	Winter	2011	403.20	480.53	552.63	689.84	74.72	97.48	102.30	125.08
C	Modoc (NEP)	Winter	2012	402.94	478.25	551.93	690.82	74.39	95.30	102.13	125.22
C	Modoc (NEP)	Winter	2013	402.86	476.62	551.35	691.93	74.23	93.74	101.93	125.38
C	Modoc (NEP)	Winter	2014	402.75	474.97	550.86	692.91	73.97	91.96	101.58	125.59
C	Modoc (NEP)	Winter	2015	402.67	473.44	550.49	693.96	73.76	90.19	101.45	125.82
C	Modoc (NEP)	Winter	2016	402.78	472.38	550.19	694.95	73.79	88.96	101.31	126.08
C	Modoc (NEP)	Winter	2017	402.74	471.40	549.93	695.92	73.64	87.77	101.05	126.34
C	Modoc (NEP)	Winter	2018	402.64	470.75	549.73	696.72	73.43	87.03	100.91	126.59
C	Modoc (NEP)	Winter	2019	402.61	470.29	549.57	697.46	73.35	86.56	100.78	126.79
C	Modoc (NEP)	Winter	2020	402.56	469.87	549.46	698.07	73.39	86.27	100.81	127.00
C	Modoc (NEP)	Winter	2021	402.52	469.41	549.36	698.48	73.42	86.13	100.87	127.13
C	Modoc (NEP)	Winter	2022	402.41	469.01	549.21	698.78	73.42	86.00	100.88	127.20
C	Modoc (NEP)	Winter	2023	402.35	468.59	549.10	699.00	73.44	85.87	100.91	127.38
C	Modoc (NEP)	Winter	2024	402.21	468.35	548.97	699.20	73.41	85.82	100.92	127.55
C	Modoc (NEP)	Winter	2025	402.14	468.36	548.91	699.40	73.41	85.87	100.96	127.72
C	Modoc (NEP)	Winter	2026	402.14	468.45	548.84	699.67	73.43	85.94	100.98	127.90
C	Modoc (NEP)	Winter	2027	402.13	468.54	548.78	699.96	73.44	86.00	100.99	128.07
C	Modoc (NEP)	Winter	2028	402.11	468.63	548.73	700.25	73.44	86.06	101.01	128.22
C	Modoc (NEP)	Winter	2029	402.10	468.72	548.66	700.50	73.45	86.12	101.01	128.36
C	Modoc (NEP)	Winter	2030	402.08	468.81	548.57	700.77	73.45	86.17	101.01	128.50
C	Modoc (NEP)	Winter	2031	402.08	468.91	548.52	701.07	73.45	86.22	101.01	128.63
C	Modoc (NEP)	Winter	2032	402.08	469.00	548.47	701.37	73.46	86.27	101.01	128.76
C	Modoc (NEP)	Winter	2033	402.07	469.08	548.44	701.63	73.47	86.31	101.01	128.87
C	Modoc (NEP)	Winter	2034	402.06	469.14	548.40	701.87	73.47	86.35	101.01	128.97
C	Modoc (NEP)	Winter	2035	402.05	469.20	548.37	702.06	73.48	86.38	101.02	129.07

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Mono (GBV)	Annual	2010	343.29	401.90	471.21	588.85	73.49	90.48	100.46	124.33
C	Mono (GBV)	Annual	2011	343.38	401.41	470.63	589.51	73.45	89.54	100.40	124.54
C	Mono (GBV)	Annual	2012	343.46	401.01	470.17	590.24	73.30	88.81	100.41	124.77
C	Mono (GBV)	Annual	2013	343.56	400.60	469.80	591.01	73.12	88.06	100.44	125.04
C	Mono (GBV)	Annual	2014	343.63	400.25	469.51	591.80	72.91	87.42	100.46	125.29
C	Mono (GBV)	Annual	2015	343.76	400.00	469.27	592.59	72.85	86.92	100.51	125.58
C	Mono (GBV)	Annual	2016	343.89	399.78	469.09	593.36	72.82	86.46	100.57	125.87
C	Mono (GBV)	Annual	2017	343.97	399.52	468.93	594.07	72.77	85.93	100.62	126.17
C	Mono (GBV)	Annual	2018	344.06	399.38	468.81	594.73	72.79	85.63	100.65	126.43
C	Mono (GBV)	Annual	2019	344.09	399.35	468.71	595.27	72.69	85.53	100.67	126.69
C	Mono (GBV)	Annual	2020	344.16	399.27	468.63	595.75	72.78	85.46	100.75	126.94
C	Mono (GBV)	Annual	2021	344.10	399.20	468.56	596.09	72.76	85.49	100.81	127.11
C	Mono (GBV)	Annual	2022	344.02	399.16	468.47	596.42	72.72	85.53	100.85	127.32
C	Mono (GBV)	Annual	2023	343.91	399.06	468.40	596.65	72.65	85.55	100.89	127.50
C	Mono (GBV)	Annual	2024	343.88	398.93	468.31	596.81	72.64	85.56	100.91	127.66
C	Mono (GBV)	Annual	2025	343.85	399.01	468.26	597.00	72.64	85.64	100.94	127.83
C	Mono (GBV)	Annual	2026	343.87	399.12	468.20	597.21	72.66	85.73	100.97	127.98
C	Mono (GBV)	Annual	2027	343.88	399.24	468.15	597.42	72.67	85.81	100.99	128.13
C	Mono (GBV)	Annual	2028	343.89	399.35	468.10	597.63	72.68	85.89	101.00	128.27
C	Mono (GBV)	Annual	2029	343.88	399.47	468.01	597.85	72.68	85.96	101.00	128.40
C	Mono (GBV)	Annual	2030	343.87	399.58	467.93	598.05	72.68	86.03	101.00	128.52
C	Mono (GBV)	Annual	2031	343.87	399.69	467.90	598.28	72.69	86.09	101.00	128.64
C	Mono (GBV)	Annual	2032	343.87	399.80	467.87	598.50	72.69	86.15	101.01	128.75
C	Mono (GBV)	Annual	2033	343.87	399.90	467.84	598.69	72.70	86.20	101.01	128.85
C	Mono (GBV)	Annual	2034	343.87	399.99	467.82	598.87	72.70	86.25	101.01	128.95
C	Mono (GBV)	Annual	2035	343.86	400.07	467.79	599.02	72.70	86.30	101.02	129.03
C	Mono (GBV)	Summer	2010	344.62	403.20	472.98	591.06	73.49	90.48	100.46	124.33
C	Mono (GBV)	Summer	2011	344.72	402.75	472.40	591.72	73.45	89.54	100.40	124.54
C	Mono (GBV)	Summer	2012	344.82	402.39	471.95	592.45	73.30	88.81	100.41	124.77
C	Mono (GBV)	Summer	2013	344.91	402.00	471.59	593.23	73.12	88.06	100.44	125.04
C	Mono (GBV)	Summer	2014	345.00	401.67	471.31	594.02	72.91	87.42	100.46	125.29
C	Mono (GBV)	Summer	2015	345.13	401.44	471.08	594.83	72.85	86.92	100.51	125.58
C	Mono (GBV)	Summer	2016	345.25	401.24	470.89	595.61	72.82	86.46	100.57	125.87
C	Mono (GBV)	Summer	2017	345.34	400.99	470.75	596.33	72.77	85.93	100.62	126.17
C	Mono (GBV)	Summer	2018	345.43	400.86	470.62	597.00	72.79	85.63	100.65	126.43
C	Mono (GBV)	Summer	2019	345.45	400.84	470.53	597.55	72.69	85.53	100.67	126.69
C	Mono (GBV)	Summer	2020	345.53	400.77	470.45	598.03	72.78	85.46	100.75	126.94
C	Mono (GBV)	Summer	2021	345.47	400.71	470.37	598.38	72.76	85.49	100.81	127.11
C	Mono (GBV)	Summer	2022	345.39	400.67	470.29	598.71	72.72	85.53	100.85	127.32
C	Mono (GBV)	Summer	2023	345.28	400.59	470.22	598.94	72.65	85.55	100.89	127.50
C	Mono (GBV)	Summer	2024	345.25	400.46	470.13	599.11	72.64	85.56	100.91	127.66
C	Mono (GBV)	Summer	2025	345.22	400.54	470.08	599.30	72.64	85.64	100.94	127.83
C	Mono (GBV)	Summer	2026	345.23	400.65	470.02	599.51	72.66	85.73	100.97	127.98
C	Mono (GBV)	Summer	2027	345.25	400.77	469.98	599.72	72.67	85.81	100.99	128.13
C	Mono (GBV)	Summer	2028	345.26	400.89	469.92	599.94	72.68	85.89	101.00	128.27
C	Mono (GBV)	Summer	2029	345.25	401.01	469.84	600.15	72.68	85.96	101.00	128.40
C	Mono (GBV)	Summer	2030	345.24	401.12	469.76	600.36	72.68	86.03	101.00	128.52
C	Mono (GBV)	Summer	2031	345.24	401.24	469.72	600.58	72.69	86.09	101.00	128.64
C	Mono (GBV)	Summer	2032	345.24	401.35	469.69	600.81	72.69	86.15	101.01	128.75
C	Mono (GBV)	Summer	2033	345.24	401.45	469.67	601.01	72.70	86.20	101.01	128.85
C	Mono (GBV)	Summer	2034	345.24	401.54	469.64	601.18	72.70	86.25	101.01	128.95
C	Mono (GBV)	Summer	2035	345.23	401.62	469.62	601.34	72.70	86.30	101.02	129.03
C	Mono (GBV)	Winter	2010	344.72	403.30	473.10	591.22	73.49	90.48	100.46	124.33
C	Mono (GBV)	Winter	2011	344.82	402.85	472.53	591.88	73.45	89.54	100.40	124.54

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Mono (GBV)	Winter	2012	344.91	402.49	472.08	592.61	73.30	88.81	100.41	124.77
C	Mono (GBV)	Winter	2013	345.01	402.10	471.72	593.39	73.12	88.06	100.44	125.04
C	Mono (GBV)	Winter	2014	345.10	401.78	471.44	594.19	72.91	87.42	100.46	125.29
C	Mono (GBV)	Winter	2015	345.23	401.55	471.21	594.99	72.85	86.92	100.51	125.58
C	Mono (GBV)	Winter	2016	345.35	401.35	471.03	595.77	72.82	86.46	100.57	125.87
C	Mono (GBV)	Winter	2017	345.44	401.10	470.88	596.50	72.77	85.93	100.62	126.17
C	Mono (GBV)	Winter	2018	345.53	400.97	470.76	597.17	72.79	85.63	100.65	126.43
C	Mono (GBV)	Winter	2019	345.55	400.95	470.66	597.72	72.69	85.53	100.67	126.69
C	Mono (GBV)	Winter	2020	345.63	400.88	470.59	598.20	72.78	85.46	100.75	126.94
C	Mono (GBV)	Winter	2021	345.57	400.82	470.51	598.55	72.76	85.49	100.81	127.11
C	Mono (GBV)	Winter	2022	345.49	400.78	470.42	598.88	72.72	85.53	100.85	127.32
C	Mono (GBV)	Winter	2023	345.38	400.70	470.35	599.11	72.65	85.55	100.89	127.50
C	Mono (GBV)	Winter	2024	345.35	400.57	470.26	599.28	72.64	85.56	100.91	127.66
C	Mono (GBV)	Winter	2025	345.32	400.65	470.21	599.47	72.64	85.64	100.94	127.83
C	Mono (GBV)	Winter	2026	345.33	400.77	470.16	599.68	72.66	85.73	100.97	127.98
C	Mono (GBV)	Winter	2027	345.35	400.89	470.11	599.89	72.67	85.81	100.99	128.13
C	Mono (GBV)	Winter	2028	345.35	401.00	470.06	600.11	72.68	85.89	101.00	128.27
C	Mono (GBV)	Winter	2029	345.35	401.12	469.97	600.32	72.68	85.96	101.00	128.40
C	Mono (GBV)	Winter	2030	345.34	401.24	469.89	600.53	72.68	86.03	101.00	128.52
C	Mono (GBV)	Winter	2031	345.34	401.35	469.86	600.75	72.69	86.09	101.00	128.64
C	Mono (GBV)	Winter	2032	345.34	401.47	469.83	600.98	72.69	86.15	101.01	128.75
C	Mono (GBV)	Winter	2033	345.34	401.57	469.80	601.18	72.70	86.20	101.01	128.85
C	Mono (GBV)	Winter	2034	345.34	401.66	469.77	601.35	72.70	86.25	101.01	128.95
C	Mono (GBV)	Winter	2035	345.33	401.73	469.75	601.50	72.70	86.30	101.02	129.03
C	Monterey (NCC)	Annual	2010	361.69	420.90	498.72	622.94	72.97	87.15	99.70	123.80
C	Monterey (NCC)	Annual	2011	360.10	418.76	495.80	620.71	72.95	86.58	99.75	124.04
C	Monterey (NCC)	Annual	2012	360.24	418.68	495.36	621.52	72.94	86.11	99.83	124.31
C	Monterey (NCC)	Annual	2013	360.44	418.67	495.00	622.39	72.98	85.75	99.92	124.61
C	Monterey (NCC)	Annual	2014	360.60	418.67	494.72	623.24	73.00	85.44	100.02	124.91
C	Monterey (NCC)	Annual	2015	360.80	418.74	494.50	624.11	73.07	85.23	100.12	125.24
C	Monterey (NCC)	Annual	2016	360.99	418.78	494.33	624.94	73.15	85.01	100.23	125.56
C	Monterey (NCC)	Annual	2017	361.13	418.83	494.19	625.72	73.19	84.83	100.31	125.87
C	Monterey (NCC)	Annual	2018	361.23	418.90	494.08	626.40	73.21	84.71	100.39	126.18
C	Monterey (NCC)	Annual	2019	361.32	419.04	494.00	627.00	73.25	84.71	100.47	126.46
C	Monterey (NCC)	Annual	2020	361.40	419.20	493.94	627.55	73.34	84.80	100.56	126.73
C	Monterey (NCC)	Annual	2021	361.41	419.37	493.82	627.95	73.42	84.94	100.65	126.97
C	Monterey (NCC)	Annual	2022	361.43	419.55	493.76	628.35	73.47	85.07	100.72	127.17
C	Monterey (NCC)	Annual	2023	361.40	419.69	493.69	628.65	73.50	85.18	100.78	127.38
C	Monterey (NCC)	Annual	2024	361.35	419.79	493.63	628.89	73.51	85.28	100.83	127.56
C	Monterey (NCC)	Annual	2025	361.32	419.90	493.58	629.12	73.53	85.37	100.87	127.74
C	Monterey (NCC)	Annual	2026	359.63	418.04	491.16	626.37	73.55	85.47	100.90	127.91
C	Monterey (NCC)	Annual	2027	359.64	418.17	491.09	626.59	73.57	85.55	100.92	128.06
C	Monterey (NCC)	Annual	2028	359.64	418.30	491.03	626.81	73.58	85.62	100.93	128.19
C	Monterey (NCC)	Annual	2029	359.64	418.44	490.95	627.03	73.58	85.69	100.94	128.32
C	Monterey (NCC)	Annual	2030	359.63	418.59	490.87	627.25	73.59	85.76	100.94	128.45
C	Monterey (NCC)	Annual	2031	359.63	418.74	490.82	627.49	73.59	85.83	100.95	128.56
C	Monterey (NCC)	Annual	2032	359.64	418.88	490.78	627.72	73.60	85.89	100.96	128.68
C	Monterey (NCC)	Annual	2033	359.64	419.01	490.75	627.94	73.60	85.95	100.96	128.78
C	Monterey (NCC)	Annual	2034	359.64	419.12	490.71	628.13	73.61	86.00	100.97	128.88
C	Monterey (NCC)	Annual	2035	359.64	419.22	490.68	628.30	73.61	86.04	100.97	128.97
C	Monterey (NCC)	Summer	2010	384.62	444.54	528.69	661.39	72.97	87.15	99.70	123.80
C	Monterey (NCC)	Summer	2011	383.13	442.63	525.88	658.94	72.95	86.58	99.75	124.04
C	Monterey (NCC)	Summer	2012	383.43	442.87	525.66	659.77	72.94	86.11	99.83	124.31
C	Monterey (NCC)	Summer	2013	383.74	443.13	525.49	660.73	72.98	85.75	99.92	124.61

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Monterey (NCC)	Summer	2014	384.00	443.36	525.37	661.71	73.00	85.44	100.02	124.91
C	Monterey (NCC)	Summer	2015	384.25	443.63	525.27	662.75	73.07	85.23	100.12	125.24
C	Monterey (NCC)	Summer	2016	384.48	443.85	525.19	663.74	73.15	85.01	100.23	125.56
C	Monterey (NCC)	Summer	2017	384.63	444.07	525.11	664.67	73.19	84.83	100.31	125.87
C	Monterey (NCC)	Summer	2018	384.73	444.29	525.03	665.48	73.21	84.71	100.39	126.18
C	Monterey (NCC)	Summer	2019	384.81	444.55	524.96	666.19	73.25	84.71	100.47	126.46
C	Monterey (NCC)	Summer	2020	384.89	444.81	524.90	666.82	73.34	84.80	100.56	126.73
C	Monterey (NCC)	Summer	2021	384.89	445.06	524.78	667.28	73.42	84.94	100.65	126.97
C	Monterey (NCC)	Summer	2022	384.92	445.33	524.72	667.75	73.47	85.07	100.72	127.17
C	Monterey (NCC)	Summer	2023	384.89	445.54	524.67	668.09	73.50	85.18	100.78	127.38
C	Monterey (NCC)	Summer	2024	384.85	445.71	524.61	668.34	73.51	85.28	100.83	127.56
C	Monterey (NCC)	Summer	2025	384.84	445.87	524.56	668.58	73.53	85.37	100.87	127.74
C	Monterey (NCC)	Summer	2026	383.04	443.94	522.01	665.65	73.55	85.47	100.90	127.91
C	Monterey (NCC)	Summer	2027	383.05	444.11	521.95	665.88	73.57	85.55	100.92	128.06
C	Monterey (NCC)	Summer	2028	383.06	444.28	521.90	666.11	73.58	85.62	100.93	128.19
C	Monterey (NCC)	Summer	2029	383.07	444.47	521.83	666.33	73.58	85.69	100.94	128.32
C	Monterey (NCC)	Summer	2030	383.07	444.66	521.77	666.57	73.59	85.76	100.94	128.45
C	Monterey (NCC)	Summer	2031	383.07	444.86	521.73	666.82	73.59	85.83	100.95	128.56
C	Monterey (NCC)	Summer	2032	383.08	445.04	521.70	667.08	73.60	85.89	100.96	128.68
C	Monterey (NCC)	Summer	2033	383.09	445.20	521.67	667.32	73.60	85.95	100.96	128.78
C	Monterey (NCC)	Summer	2034	383.09	445.34	521.64	667.54	73.61	86.00	100.97	128.88
C	Monterey (NCC)	Summer	2035	383.09	445.45	521.62	667.73	73.61	86.04	100.97	128.97
C	Monterey (NCC)	Winter	2010	359.53	418.68	495.91	619.33	72.97	87.15	99.70	123.80
C	Monterey (NCC)	Winter	2011	357.94	416.52	492.98	617.12	72.95	86.58	99.75	124.04
C	Monterey (NCC)	Winter	2012	358.06	416.41	492.51	617.92	72.94	86.11	99.83	124.31
C	Monterey (NCC)	Winter	2013	358.25	416.38	492.14	618.78	72.98	85.75	99.92	124.61
C	Monterey (NCC)	Winter	2014	358.40	416.35	491.84	619.62	73.00	85.44	100.02	124.91
C	Monterey (NCC)	Winter	2015	358.60	416.40	491.61	620.48	73.07	85.23	100.12	125.24
C	Monterey (NCC)	Winter	2016	358.78	416.42	491.43	621.29	73.15	85.01	100.23	125.56
C	Monterey (NCC)	Winter	2017	358.92	416.46	491.28	622.06	73.19	84.83	100.31	125.87
C	Monterey (NCC)	Winter	2018	359.02	416.51	491.17	622.73	73.21	84.71	100.39	126.18
C	Monterey (NCC)	Winter	2019	359.11	416.65	491.09	623.32	73.25	84.71	100.47	126.46
C	Monterey (NCC)	Winter	2020	359.20	416.80	491.03	623.86	73.34	84.80	100.56	126.73
C	Monterey (NCC)	Winter	2021	359.20	416.95	490.91	624.25	73.42	84.94	100.65	126.97
C	Monterey (NCC)	Winter	2022	359.22	417.13	490.85	624.65	73.47	85.07	100.72	127.17
C	Monterey (NCC)	Winter	2023	359.19	417.26	490.78	624.95	73.50	85.18	100.78	127.38
C	Monterey (NCC)	Winter	2024	359.14	417.36	490.72	625.18	73.51	85.28	100.83	127.56
C	Monterey (NCC)	Winter	2025	359.11	417.45	490.67	625.41	73.53	85.37	100.87	127.74
C	Monterey (NCC)	Winter	2026	357.43	415.61	488.26	622.68	73.55	85.47	100.90	127.91
C	Monterey (NCC)	Winter	2027	357.44	415.73	488.19	622.90	73.57	85.55	100.92	128.06
C	Monterey (NCC)	Winter	2028	357.44	415.86	488.13	623.12	73.58	85.62	100.93	128.19
C	Monterey (NCC)	Winter	2029	357.44	416.00	488.04	623.34	73.58	85.69	100.94	128.32
C	Monterey (NCC)	Winter	2030	357.43	416.14	487.97	623.56	73.59	85.76	100.94	128.45
C	Monterey (NCC)	Winter	2031	357.43	416.28	487.92	623.79	73.59	85.83	100.95	128.56
C	Monterey (NCC)	Winter	2032	357.43	416.42	487.88	624.03	73.60	85.89	100.96	128.68
C	Monterey (NCC)	Winter	2033	357.44	416.54	487.84	624.24	73.60	85.95	100.96	128.78
C	Monterey (NCC)	Winter	2034	357.44	416.66	487.80	624.43	73.61	86.00	100.97	128.88
C	Monterey (NCC)	Winter	2035	357.43	416.75	487.77	624.59	73.61	86.04	100.97	128.97
C	Napa (SF)	Annual	2010	329.10	378.96	450.01	565.84	73.43	86.05	99.91	124.74
C	Napa (SF)	Annual	2011	329.06	378.97	449.74	566.36	73.36	85.65	99.95	124.92
C	Napa (SF)	Annual	2012	329.05	379.03	449.53	566.94	73.30	85.32	99.99	125.12
C	Napa (SF)	Annual	2013	329.13	379.15	449.36	567.56	73.30	85.09	100.06	125.34
C	Napa (SF)	Annual	2014	329.21	379.25	449.22	568.19	73.28	84.89	100.11	125.57
C	Napa (SF)	Annual	2015	329.32	379.37	449.11	568.83	73.31	84.71	100.14	125.82

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Napa (SF)	Annual	2016	329.46	379.53	449.03	569.44	73.38	84.61	100.21	126.08
C	Napa (SF)	Annual	2017	329.52	379.63	448.96	570.02	73.36	84.47	100.26	126.33
C	Napa (SF)	Annual	2018	329.58	379.77	448.91	570.54	73.37	84.41	100.30	126.57
C	Napa (SF)	Annual	2019	329.63	379.97	448.87	570.99	73.38	84.45	100.37	126.80
C	Napa (SF)	Annual	2020	329.69	380.19	448.85	571.40	73.47	84.58	100.46	127.02
C	Napa (SF)	Annual	2021	329.76	380.44	448.83	571.71	73.55	84.74	100.55	127.19
C	Napa (SF)	Annual	2022	329.80	380.64	448.80	571.97	73.61	84.89	100.63	127.33
C	Napa (SF)	Annual	2023	329.77	380.79	448.77	572.17	73.64	85.01	100.69	127.50
C	Napa (SF)	Annual	2024	329.73	380.92	448.74	572.31	73.66	85.13	100.75	127.65
C	Napa (SF)	Annual	2025	329.72	381.02	448.71	572.48	73.68	85.23	100.80	127.80
C	Napa (SF)	Annual	2026	329.74	381.19	448.67	572.65	73.70	85.33	100.83	127.95
C	Napa (SF)	Annual	2027	329.75	381.36	448.64	572.81	73.72	85.43	100.86	128.09
C	Napa (SF)	Annual	2028	329.75	381.54	448.61	572.98	73.73	85.52	100.89	128.21
C	Napa (SF)	Annual	2029	329.74	381.72	448.56	573.14	73.74	85.61	100.90	128.33
C	Napa (SF)	Annual	2030	329.73	381.90	448.51	573.32	73.74	85.69	100.91	128.44
C	Napa (SF)	Annual	2031	329.73	382.10	448.49	573.52	73.75	85.77	100.92	128.55
C	Napa (SF)	Annual	2032	329.72	382.29	448.47	573.73	73.75	85.85	100.93	128.66
C	Napa (SF)	Annual	2033	329.72	382.46	448.45	573.91	73.76	85.92	100.94	128.76
C	Napa (SF)	Annual	2034	329.71	382.61	448.42	574.08	73.76	85.98	100.94	128.86
C	Napa (SF)	Annual	2035	329.70	382.75	448.40	574.22	73.77	86.04	100.95	128.94
C	Napa (SF)	Summer	2010	352.37	401.97	480.67	604.93	73.43	86.05	99.91	124.74
C	Napa (SF)	Summer	2011	352.52	402.44	480.51	605.37	73.36	85.65	99.95	124.92
C	Napa (SF)	Summer	2012	352.67	402.91	480.41	605.97	73.30	85.32	99.99	125.12
C	Napa (SF)	Summer	2013	352.86	403.37	480.36	606.65	73.30	85.09	100.06	125.34
C	Napa (SF)	Summer	2014	353.02	403.79	480.35	607.39	73.28	84.89	100.11	125.57
C	Napa (SF)	Summer	2015	353.20	404.17	480.37	608.18	73.31	84.71	100.14	125.82
C	Napa (SF)	Summer	2016	353.38	404.56	480.39	608.94	73.38	84.61	100.21	126.08
C	Napa (SF)	Summer	2017	353.47	404.88	480.42	609.68	73.36	84.47	100.26	126.33
C	Napa (SF)	Summer	2018	353.53	405.19	480.43	610.32	73.37	84.41	100.30	126.57
C	Napa (SF)	Summer	2019	353.59	405.53	480.43	610.87	73.38	84.45	100.37	126.80
C	Napa (SF)	Summer	2020	353.65	405.87	480.42	611.37	73.47	84.58	100.46	127.02
C	Napa (SF)	Summer	2021	353.72	406.21	480.39	611.75	73.55	84.74	100.55	127.19
C	Napa (SF)	Summer	2022	353.75	406.51	480.36	612.08	73.61	84.89	100.63	127.33
C	Napa (SF)	Summer	2023	353.73	406.75	480.32	612.31	73.64	85.01	100.69	127.50
C	Napa (SF)	Summer	2024	353.70	406.96	480.28	612.48	73.66	85.13	100.75	127.65
C	Napa (SF)	Summer	2025	353.69	407.15	480.25	612.65	73.68	85.23	100.80	127.80
C	Napa (SF)	Summer	2026	353.71	407.39	480.21	612.82	73.70	85.33	100.83	127.95
C	Napa (SF)	Summer	2027	353.72	407.64	480.17	612.99	73.72	85.43	100.86	128.09
C	Napa (SF)	Summer	2028	353.73	407.89	480.14	613.16	73.73	85.52	100.89	128.21
C	Napa (SF)	Summer	2029	353.74	408.15	480.10	613.34	73.74	85.61	100.90	128.33
C	Napa (SF)	Summer	2030	353.73	408.41	480.06	613.52	73.74	85.69	100.91	128.44
C	Napa (SF)	Summer	2031	353.73	408.69	480.04	613.77	73.75	85.77	100.92	128.55
C	Napa (SF)	Summer	2032	353.73	408.94	480.03	614.01	73.75	85.85	100.93	128.66
C	Napa (SF)	Summer	2033	353.73	409.15	480.01	614.23	73.76	85.92	100.94	128.76
C	Napa (SF)	Summer	2034	353.73	409.35	479.99	614.43	73.76	85.98	100.94	128.86
C	Napa (SF)	Summer	2035	353.72	409.51	479.97	614.62	73.77	86.04	100.95	128.94
C	Napa (SF)	Winter	2010	325.46	375.37	445.22	559.74	73.43	86.05	99.91	124.74
C	Napa (SF)	Winter	2011	325.40	375.31	444.93	560.26	73.36	85.65	99.95	124.92
C	Napa (SF)	Winter	2012	325.37	375.30	444.70	560.85	73.30	85.32	99.99	125.12
C	Napa (SF)	Winter	2013	325.43	375.36	444.52	561.45	73.30	85.09	100.06	125.34
C	Napa (SF)	Winter	2014	325.49	375.42	444.36	562.07	73.28	84.89	100.11	125.57
C	Napa (SF)	Winter	2015	325.59	375.49	444.23	562.69	73.31	84.71	100.14	125.82
C	Napa (SF)	Winter	2016	325.73	375.62	444.13	563.27	73.38	84.61	100.21	126.08
C	Napa (SF)	Winter	2017	325.78	375.69	444.05	563.83	73.36	84.47	100.26	126.33

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Napa (SF)	Winter	2018	325.84	375.80	443.99	564.33	73.37	84.41	100.30	126.57
C	Napa (SF)	Winter	2019	325.89	375.97	443.95	564.76	73.38	84.45	100.37	126.80
C	Napa (SF)	Winter	2020	325.95	376.18	443.92	565.16	73.47	84.58	100.46	127.02
C	Napa (SF)	Winter	2021	326.02	376.41	443.90	565.46	73.55	84.74	100.55	127.19
C	Napa (SF)	Winter	2022	326.06	376.60	443.87	565.71	73.61	84.89	100.63	127.33
C	Napa (SF)	Winter	2023	326.03	376.74	443.84	565.90	73.64	85.01	100.69	127.50
C	Napa (SF)	Winter	2024	325.99	376.85	443.81	566.04	73.66	85.13	100.75	127.65
C	Napa (SF)	Winter	2025	325.98	376.94	443.79	566.20	73.68	85.23	100.80	127.80
C	Napa (SF)	Winter	2026	325.99	377.10	443.75	566.37	73.70	85.33	100.83	127.95
C	Napa (SF)	Winter	2027	326.00	377.26	443.72	566.54	73.72	85.43	100.86	128.09
C	Napa (SF)	Winter	2028	326.00	377.42	443.68	566.71	73.73	85.52	100.89	128.21
C	Napa (SF)	Winter	2029	325.99	377.59	443.63	566.87	73.74	85.61	100.90	128.33
C	Napa (SF)	Winter	2030	325.98	377.76	443.59	567.04	73.74	85.69	100.91	128.44
C	Napa (SF)	Winter	2031	325.98	377.95	443.57	567.24	73.75	85.77	100.92	128.55
C	Napa (SF)	Winter	2032	325.97	378.13	443.55	567.44	73.75	85.85	100.93	128.66
C	Napa (SF)	Winter	2033	325.97	378.29	443.52	567.61	73.76	85.92	100.94	128.76
C	Napa (SF)	Winter	2034	325.96	378.44	443.49	567.77	73.76	85.98	100.94	128.86
C	Napa (SF)	Winter	2035	325.95	378.57	443.47	567.91	73.77	86.04	100.95	128.94
C	Nevada (MC)	Annual	2010	326.07	380.22	447.10	559.78	73.67	93.42	100.30	125.42
C	Nevada (MC)	Annual	2011	326.05	379.91	446.56	560.31	73.51	91.91	100.28	125.49
C	Nevada (MC)	Annual	2012	326.08	379.65	446.15	560.94	73.39	90.54	100.30	125.59
C	Nevada (MC)	Annual	2013	326.14	379.46	445.84	561.62	73.28	89.44	100.33	125.74
C	Nevada (MC)	Annual	2014	326.17	379.29	445.60	562.31	73.14	88.45	100.37	125.90
C	Nevada (MC)	Annual	2015	326.25	379.17	445.41	563.05	73.08	87.59	100.41	126.09
C	Nevada (MC)	Annual	2016	326.37	379.06	445.26	563.75	73.08	86.81	100.48	126.31
C	Nevada (MC)	Annual	2017	326.42	378.96	445.14	564.41	73.04	86.10	100.50	126.53
C	Nevada (MC)	Annual	2018	326.47	378.87	445.04	564.98	73.01	85.49	100.54	126.75
C	Nevada (MC)	Annual	2019	326.52	378.90	444.96	565.48	73.00	85.26	100.59	126.96
C	Nevada (MC)	Annual	2020	326.58	378.94	444.89	565.93	73.10	85.21	100.66	127.16
C	Nevada (MC)	Annual	2021	326.64	379.04	444.84	566.23	73.18	85.31	100.74	127.27
C	Nevada (MC)	Annual	2022	326.65	379.14	444.78	566.45	73.23	85.40	100.80	127.30
C	Nevada (MC)	Annual	2023	326.63	379.22	444.73	566.61	73.26	85.48	100.85	127.47
C	Nevada (MC)	Annual	2024	326.58	379.28	444.68	566.75	73.28	85.56	100.89	127.62
C	Nevada (MC)	Annual	2025	326.58	379.35	444.63	566.93	73.30	85.63	100.92	127.79
C	Nevada (MC)	Annual	2026	326.59	379.43	444.58	567.11	73.32	85.70	100.95	127.95
C	Nevada (MC)	Annual	2027	326.60	379.49	444.53	567.28	73.34	85.77	100.96	128.09
C	Nevada (MC)	Annual	2028	326.60	379.56	444.49	567.46	73.35	85.83	100.97	128.22
C	Nevada (MC)	Annual	2029	326.60	379.64	444.43	567.65	73.36	85.88	100.97	128.35
C	Nevada (MC)	Annual	2030	326.59	379.71	444.37	567.83	73.36	85.93	100.97	128.47
C	Nevada (MC)	Annual	2031	326.58	379.78	444.34	568.04	73.37	85.99	100.97	128.58
C	Nevada (MC)	Annual	2032	326.58	379.84	444.32	568.25	73.37	86.03	100.97	128.70
C	Nevada (MC)	Annual	2033	326.58	379.90	444.30	568.44	73.38	86.08	100.98	128.80
C	Nevada (MC)	Annual	2034	326.57	379.95	444.28	568.61	73.38	86.12	100.98	128.89
C	Nevada (MC)	Annual	2035	326.57	379.99	444.26	568.76	73.39	86.15	100.98	128.98
C	Nevada (MC)	Summer	2010	349.54	405.49	478.37	598.65	73.67	93.42	100.30	125.42
C	Nevada (MC)	Summer	2011	349.74	405.57	478.16	599.23	73.51	91.91	100.28	125.49
C	Nevada (MC)	Summer	2012	349.96	405.65	478.01	599.97	73.39	90.54	100.30	125.59
C	Nevada (MC)	Summer	2013	350.16	405.73	477.90	600.85	73.28	89.44	100.33	125.74
C	Nevada (MC)	Summer	2014	350.32	405.78	477.81	601.73	73.14	88.45	100.37	125.90
C	Nevada (MC)	Summer	2015	350.49	405.86	477.75	602.72	73.08	87.59	100.41	126.09
C	Nevada (MC)	Summer	2016	350.67	405.92	477.68	603.66	73.08	86.81	100.48	126.31
C	Nevada (MC)	Summer	2017	350.76	405.97	477.60	604.55	73.04	86.10	100.50	126.53
C	Nevada (MC)	Summer	2018	350.82	406.02	477.50	605.29	73.01	85.49	100.54	126.75
C	Nevada (MC)	Summer	2019	350.87	406.12	477.42	605.95	73.00	85.26	100.59	126.96

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Nevada (MC)	Summer	2020	350.93	406.22	477.35	606.52	73.10	85.21	100.66	127.16
C	Nevada (MC)	Summer	2021	350.98	406.36	477.27	606.93	73.18	85.31	100.74	127.27
C	Nevada (MC)	Summer	2022	350.98	406.49	477.21	607.24	73.23	85.40	100.80	127.30
C	Nevada (MC)	Summer	2023	350.96	406.60	477.15	607.48	73.26	85.48	100.85	127.47
C	Nevada (MC)	Summer	2024	350.91	406.70	477.10	607.66	73.28	85.56	100.89	127.62
C	Nevada (MC)	Summer	2025	350.91	406.81	477.06	607.85	73.30	85.63	100.92	127.79
C	Nevada (MC)	Summer	2026	350.93	406.90	477.02	608.02	73.32	85.70	100.95	127.95
C	Nevada (MC)	Summer	2027	350.95	406.99	476.99	608.19	73.34	85.77	100.96	128.09
C	Nevada (MC)	Summer	2028	350.96	407.08	476.96	608.37	73.35	85.83	100.97	128.22
C	Nevada (MC)	Summer	2029	350.96	407.18	476.92	608.57	73.36	85.88	100.97	128.35
C	Nevada (MC)	Summer	2030	350.96	407.28	476.88	608.77	73.36	85.93	100.97	128.47
C	Nevada (MC)	Summer	2031	350.97	407.37	476.86	609.02	73.37	85.99	100.97	128.58
C	Nevada (MC)	Summer	2032	350.97	407.44	476.85	609.26	73.37	86.03	100.97	128.70
C	Nevada (MC)	Summer	2033	350.97	407.51	476.83	609.49	73.38	86.08	100.98	128.80
C	Nevada (MC)	Summer	2034	350.97	407.57	476.81	609.70	73.38	86.12	100.98	128.89
C	Nevada (MC)	Summer	2035	350.96	407.62	476.80	609.90	73.39	86.15	100.98	128.98
C	Nevada (MC)	Winter	2010	320.89	374.64	440.20	551.20	73.67	93.42	100.30	125.42
C	Nevada (MC)	Winter	2011	320.82	374.25	439.58	551.72	73.51	91.91	100.28	125.49
C	Nevada (MC)	Winter	2012	320.81	373.90	439.12	552.32	73.39	90.54	100.30	125.59
C	Nevada (MC)	Winter	2013	320.83	373.65	438.76	552.96	73.28	89.44	100.33	125.74
C	Nevada (MC)	Winter	2014	320.84	373.44	438.48	553.60	73.14	88.45	100.37	125.90
C	Nevada (MC)	Winter	2015	320.90	373.27	438.27	554.29	73.08	87.59	100.41	126.09
C	Nevada (MC)	Winter	2016	321.00	373.13	438.10	554.93	73.08	86.81	100.48	126.31
C	Nevada (MC)	Winter	2017	321.05	372.99	437.97	555.55	73.04	86.10	100.50	126.53
C	Nevada (MC)	Winter	2018	321.09	372.88	437.87	556.08	73.01	85.49	100.54	126.75
C	Nevada (MC)	Winter	2019	321.14	372.89	437.79	556.55	73.00	85.26	100.59	126.96
C	Nevada (MC)	Winter	2020	321.21	372.92	437.73	556.97	73.10	85.21	100.66	127.16
C	Nevada (MC)	Winter	2021	321.26	373.01	437.67	557.24	73.18	85.31	100.74	127.27
C	Nevada (MC)	Winter	2022	321.28	373.10	437.62	557.44	73.23	85.40	100.80	127.30
C	Nevada (MC)	Winter	2023	321.26	373.17	437.57	557.59	73.26	85.48	100.85	127.47
C	Nevada (MC)	Winter	2024	321.21	373.23	437.52	557.72	73.28	85.56	100.89	127.62
C	Nevada (MC)	Winter	2025	321.21	373.29	437.48	557.90	73.30	85.63	100.92	127.79
C	Nevada (MC)	Winter	2026	321.22	373.36	437.42	558.07	73.32	85.70	100.95	127.95
C	Nevada (MC)	Winter	2027	321.23	373.42	437.37	558.25	73.34	85.77	100.96	128.09
C	Nevada (MC)	Winter	2028	321.23	373.49	437.32	558.43	73.35	85.83	100.97	128.22
C	Nevada (MC)	Winter	2029	321.22	373.56	437.26	558.61	73.36	85.88	100.97	128.35
C	Nevada (MC)	Winter	2030	321.20	373.62	437.19	558.79	73.36	85.93	100.97	128.47
C	Nevada (MC)	Winter	2031	321.20	373.69	437.16	558.99	73.37	85.99	100.97	128.58
C	Nevada (MC)	Winter	2032	321.20	373.75	437.14	559.20	73.37	86.03	100.97	128.70
C	Nevada (MC)	Winter	2033	321.19	373.80	437.12	559.38	73.38	86.08	100.98	128.80
C	Nevada (MC)	Winter	2034	321.19	373.85	437.10	559.54	73.38	86.12	100.98	128.89
C	Nevada (MC)	Winter	2035	321.18	373.89	437.08	559.68	73.39	86.15	100.98	128.98
C	Orange (SC)	Annual	2010	347.87	400.01	475.99	602.85	73.07	83.78	99.29	125.36
C	Orange (SC)	Annual	2011	348.42	401.06	476.42	603.92	73.09	83.78	99.41	125.57
C	Orange (SC)	Annual	2012	348.63	401.63	476.37	604.39	73.13	83.82	99.55	125.78
C	Orange (SC)	Annual	2013	347.19	400.22	474.06	601.99	73.21	83.88	99.69	126.00
C	Orange (SC)	Annual	2014	347.40	400.69	474.04	602.49	73.26	83.95	99.83	126.23
C	Orange (SC)	Annual	2015	346.99	400.42	473.19	601.91	73.34	84.04	99.96	126.46
C	Orange (SC)	Annual	2016	347.18	400.82	473.19	602.39	73.43	84.13	100.08	126.69
C	Orange (SC)	Annual	2017	347.34	401.21	473.19	602.86	73.49	84.25	100.19	126.92
C	Orange (SC)	Annual	2018	347.48	401.54	473.20	603.27	73.54	84.36	100.29	127.13
C	Orange (SC)	Annual	2019	349.20	403.69	475.40	606.40	73.60	84.51	100.39	127.32
C	Orange (SC)	Annual	2020	349.30	403.97	475.41	606.72	73.70	84.67	100.49	127.50
C	Orange (SC)	Annual	2021	349.75	404.66	475.92	607.64	73.77	84.83	100.58	127.66

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Orange (SC)	Annual	2022	349.80	404.88	475.93	607.87	73.82	84.97	100.65	127.80
C	Orange (SC)	Annual	2023	349.82	405.05	475.92	608.05	73.86	85.10	100.72	127.95
C	Orange (SC)	Annual	2024	349.76	405.12	475.84	608.09	73.88	85.21	100.77	128.09
C	Orange (SC)	Annual	2025	349.77	405.26	475.83	608.24	73.90	85.31	100.82	128.22
C	Orange (SC)	Annual	2026	349.79	405.40	475.82	608.38	73.92	85.41	100.85	128.34
C	Orange (SC)	Annual	2027	349.80	405.53	475.81	608.51	73.94	85.50	100.88	128.45
C	Orange (SC)	Annual	2028	349.81	405.67	475.80	608.64	73.95	85.58	100.90	128.55
C	Orange (SC)	Annual	2029	349.81	405.80	475.79	608.77	73.96	85.66	100.92	128.64
C	Orange (SC)	Annual	2030	349.81	405.94	475.78	608.90	73.96	85.73	100.93	128.73
C	Orange (SC)	Annual	2031	348.96	405.11	474.63	607.56	73.97	85.80	100.95	128.81
C	Orange (SC)	Annual	2032	348.96	405.24	474.63	607.70	73.97	85.87	100.95	128.89
C	Orange (SC)	Annual	2033	348.96	405.36	474.62	607.83	73.97	85.94	100.96	128.97
C	Orange (SC)	Annual	2034	348.95	405.47	474.62	607.95	73.98	86.00	100.97	129.04
C	Orange (SC)	Annual	2035	348.95	405.55	474.61	608.05	73.98	86.05	100.97	129.10
C	Orange (SC)	Summer	2010	362.44	415.36	495.33	627.26	73.07	83.78	99.29	125.36
C	Orange (SC)	Summer	2011	363.04	416.58	495.78	628.25	73.09	83.78	99.41	125.57
C	Orange (SC)	Summer	2012	363.28	417.29	495.73	628.67	73.13	83.82	99.55	125.78
C	Orange (SC)	Summer	2013	361.81	415.93	493.36	626.17	73.21	83.88	99.69	126.00
C	Orange (SC)	Summer	2014	362.04	416.49	493.37	626.68	73.26	83.95	99.83	126.23
C	Orange (SC)	Summer	2015	361.62	416.27	492.50	626.09	73.34	84.04	99.96	126.46
C	Orange (SC)	Summer	2016	361.83	416.72	492.53	626.63	73.43	84.13	100.08	126.69
C	Orange (SC)	Summer	2017	362.01	417.16	492.56	627.16	73.49	84.25	100.19	126.92
C	Orange (SC)	Summer	2018	362.15	417.54	492.59	627.63	73.54	84.36	100.29	127.13
C	Orange (SC)	Summer	2019	363.96	419.82	494.91	630.94	73.60	84.51	100.39	127.32
C	Orange (SC)	Summer	2020	364.07	420.12	494.92	631.29	73.70	84.67	100.49	127.50
C	Orange (SC)	Summer	2021	364.53	420.87	495.46	632.27	73.77	84.83	100.58	127.66
C	Orange (SC)	Summer	2022	364.57	421.13	495.46	632.54	73.82	84.97	100.65	127.80
C	Orange (SC)	Summer	2023	364.59	421.33	495.45	632.74	73.86	85.10	100.72	127.95
C	Orange (SC)	Summer	2024	364.55	421.45	495.37	632.81	73.88	85.21	100.77	128.09
C	Orange (SC)	Summer	2025	364.56	421.62	495.36	632.96	73.90	85.31	100.82	128.22
C	Orange (SC)	Summer	2026	364.58	421.79	495.35	633.12	73.92	85.41	100.85	128.34
C	Orange (SC)	Summer	2027	364.59	421.94	495.34	633.26	73.94	85.50	100.88	128.45
C	Orange (SC)	Summer	2028	364.60	422.10	495.33	633.39	73.95	85.58	100.90	128.55
C	Orange (SC)	Summer	2029	364.60	422.27	495.31	633.51	73.96	85.66	100.92	128.64
C	Orange (SC)	Summer	2030	364.60	422.43	495.31	633.65	73.96	85.73	100.93	128.73
C	Orange (SC)	Summer	2031	363.73	421.60	494.12	632.27	73.97	85.80	100.95	128.81
C	Orange (SC)	Summer	2032	363.72	421.76	494.11	632.41	73.97	85.87	100.95	128.89
C	Orange (SC)	Summer	2033	363.72	421.90	494.11	632.54	73.97	85.94	100.96	128.97
C	Orange (SC)	Summer	2034	363.72	422.02	494.10	632.66	73.98	86.00	100.97	129.04
C	Orange (SC)	Summer	2035	363.71	422.11	494.10	632.78	73.98	86.05	100.97	129.10
C	Orange (SC)	Winter	2010	342.49	394.35	468.85	593.85	73.07	83.78	99.29	125.36
C	Orange (SC)	Winter	2011	343.03	395.32	469.28	594.94	73.09	83.78	99.41	125.57
C	Orange (SC)	Winter	2012	343.22	395.85	469.23	595.43	73.13	83.82	99.55	125.78
C	Orange (SC)	Winter	2013	341.80	394.42	466.94	593.07	73.21	83.88	99.69	126.00
C	Orange (SC)	Winter	2014	341.99	394.86	466.91	593.56	73.26	83.95	99.83	126.23
C	Orange (SC)	Winter	2015	341.59	394.58	466.06	592.99	73.34	84.04	99.96	126.46
C	Orange (SC)	Winter	2016	341.78	394.95	466.05	593.44	73.43	84.13	100.08	126.69
C	Orange (SC)	Winter	2017	341.93	395.32	466.04	593.89	73.49	84.25	100.19	126.92
C	Orange (SC)	Winter	2018	342.06	395.63	466.04	594.28	73.54	84.36	100.29	127.13
C	Orange (SC)	Winter	2019	343.75	397.74	468.20	597.34	73.60	84.51	100.39	127.32
C	Orange (SC)	Winter	2020	343.85	398.00	468.21	597.65	73.70	84.67	100.49	127.50
C	Orange (SC)	Winter	2021	344.29	398.67	468.71	598.54	73.77	84.83	100.58	127.66
C	Orange (SC)	Winter	2022	344.34	398.88	468.72	598.77	73.82	84.97	100.65	127.80
C	Orange (SC)	Winter	2023	344.36	399.04	468.72	598.94	73.86	85.10	100.72	127.95

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Orange (SC)	Winter	2024	344.30	399.10	468.63	598.97	73.88	85.21	100.77	128.09
C	Orange (SC)	Winter	2025	344.31	399.22	468.62	599.11	73.90	85.31	100.82	128.22
C	Orange (SC)	Winter	2026	344.33	399.35	468.62	599.25	73.92	85.41	100.85	128.34
C	Orange (SC)	Winter	2027	344.34	399.47	468.61	599.38	73.94	85.50	100.88	128.45
C	Orange (SC)	Winter	2028	344.35	399.60	468.60	599.51	73.95	85.58	100.90	128.55
C	Orange (SC)	Winter	2029	344.35	399.72	468.59	599.64	73.96	85.66	100.92	128.64
C	Orange (SC)	Winter	2030	344.34	399.85	468.58	599.77	73.96	85.73	100.93	128.73
C	Orange (SC)	Winter	2031	343.51	399.02	467.44	598.45	73.97	85.80	100.95	128.81
C	Orange (SC)	Winter	2032	343.51	399.15	467.43	598.59	73.97	85.87	100.95	128.89
C	Orange (SC)	Winter	2033	343.51	399.26	467.43	598.71	73.97	85.94	100.96	128.97
C	Orange (SC)	Winter	2034	343.50	399.36	467.42	598.82	73.98	86.00	100.97	129.04
C	Orange (SC)	Winter	2035	343.50	399.44	467.42	598.92	73.98	86.05	100.97	129.10
C	Placer (LT)	Annual	2010	340.23	392.41	463.45	577.11	74.90	88.03	99.95	123.15
C	Placer (LT)	Annual	2011	339.97	392.42	463.05	578.12	74.69	87.25	99.98	123.39
C	Placer (LT)	Annual	2012	339.74	392.55	462.73	579.12	74.40	86.88	100.02	123.70
C	Placer (LT)	Annual	2013	339.68	392.64	462.48	580.23	74.28	86.50	100.11	124.04
C	Placer (LT)	Annual	2014	339.55	392.72	462.29	581.26	74.02	86.17	100.18	124.39
C	Placer (LT)	Annual	2015	339.51	392.81	462.13	582.31	73.88	85.86	100.25	124.76
C	Placer (LT)	Annual	2016	339.57	392.94	462.02	583.33	73.88	85.70	100.34	125.12
C	Placer (LT)	Annual	2017	339.55	392.98	461.93	584.26	73.79	85.38	100.40	125.48
C	Placer (LT)	Annual	2018	339.54	393.05	461.86	585.08	73.72	85.22	100.48	125.82
C	Placer (LT)	Annual	2019	339.49	393.16	461.81	585.79	73.61	85.17	100.54	126.14
C	Placer (LT)	Annual	2020	339.51	393.28	461.78	586.39	73.69	85.23	100.64	126.46
C	Placer (LT)	Annual	2021	339.39	393.37	461.75	586.89	73.69	85.32	100.72	126.73
C	Placer (LT)	Annual	2022	339.32	393.46	461.71	587.33	73.71	85.41	100.78	126.98
C	Placer (LT)	Annual	2023	339.19	393.47	461.67	587.65	73.70	85.46	100.83	127.20
C	Placer (LT)	Annual	2024	338.99	393.46	461.63	587.89	73.66	85.51	100.87	127.40
C	Placer (LT)	Annual	2025	338.92	393.53	461.61	588.13	73.66	85.59	100.91	127.59
C	Placer (LT)	Annual	2026	338.92	393.66	461.58	588.38	73.68	85.69	100.94	127.78
C	Placer (LT)	Annual	2027	338.92	393.78	461.56	588.62	73.70	85.78	100.96	127.94
C	Placer (LT)	Annual	2028	338.91	393.89	461.53	588.87	73.71	85.86	100.98	128.10
C	Placer (LT)	Annual	2029	338.88	394.01	461.50	589.12	73.71	85.93	100.99	128.24
C	Placer (LT)	Annual	2030	338.87	394.12	461.45	589.36	73.71	86.00	100.99	128.38
C	Placer (LT)	Annual	2031	338.87	394.23	461.43	589.62	73.72	86.07	101.00	128.51
C	Placer (LT)	Annual	2032	338.86	394.34	461.40	589.88	73.73	86.13	101.01	128.64
C	Placer (LT)	Annual	2033	338.86	394.44	461.38	590.11	73.73	86.19	101.01	128.75
C	Placer (LT)	Annual	2034	338.85	394.52	461.36	590.32	73.74	86.25	101.01	128.86
C	Placer (LT)	Annual	2035	338.84	394.59	461.34	590.51	73.74	86.29	101.02	128.96
C	Placer (LT)	Summer	2010	338.84	391.00	461.59	574.82	74.90	88.03	99.95	123.15
C	Placer (LT)	Summer	2011	338.57	390.97	461.17	575.82	74.69	87.25	99.98	123.39
C	Placer (LT)	Summer	2012	338.32	391.08	460.84	576.82	74.40	86.88	100.02	123.70
C	Placer (LT)	Summer	2013	338.25	391.14	460.59	577.91	74.28	86.50	100.11	124.04
C	Placer (LT)	Summer	2014	338.11	391.20	460.39	578.92	74.02	86.17	100.18	124.39
C	Placer (LT)	Summer	2015	338.07	391.27	460.22	579.97	73.88	85.86	100.25	124.76
C	Placer (LT)	Summer	2016	338.13	391.39	460.11	580.97	73.88	85.70	100.34	125.12
C	Placer (LT)	Summer	2017	338.10	391.41	460.01	581.88	73.79	85.38	100.40	125.48
C	Placer (LT)	Summer	2018	338.10	391.48	459.94	582.69	73.72	85.22	100.48	125.82
C	Placer (LT)	Summer	2019	338.04	391.58	459.89	583.40	73.61	85.17	100.54	126.14
C	Placer (LT)	Summer	2020	338.06	391.69	459.86	583.98	73.69	85.23	100.64	126.46
C	Placer (LT)	Summer	2021	337.95	391.78	459.84	584.48	73.69	85.32	100.72	126.73
C	Placer (LT)	Summer	2022	337.87	391.86	459.79	584.92	73.71	85.41	100.78	126.98
C	Placer (LT)	Summer	2023	337.74	391.87	459.76	585.24	73.70	85.46	100.83	127.20
C	Placer (LT)	Summer	2024	337.54	391.85	459.72	585.48	73.66	85.51	100.87	127.40
C	Placer (LT)	Summer	2025	337.47	391.92	459.69	585.72	73.66	85.59	100.91	127.59

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Placer (LT)	Summer	2026	337.47	392.04	459.66	585.97	73.68	85.69	100.94	127.78
C	Placer (LT)	Summer	2027	337.47	392.16	459.64	586.21	73.70	85.78	100.96	127.94
C	Placer (LT)	Summer	2028	337.46	392.27	459.61	586.46	73.71	85.86	100.98	128.10
C	Placer (LT)	Summer	2029	337.44	392.39	459.58	586.70	73.71	85.93	100.99	128.24
C	Placer (LT)	Summer	2030	337.42	392.50	459.53	586.94	73.71	86.00	100.99	128.38
C	Placer (LT)	Summer	2031	337.42	392.60	459.50	587.19	73.72	86.07	101.00	128.51
C	Placer (LT)	Summer	2032	337.41	392.71	459.48	587.45	73.73	86.13	101.01	128.64
C	Placer (LT)	Summer	2033	337.40	392.80	459.46	587.68	73.73	86.19	101.01	128.75
C	Placer (LT)	Summer	2034	337.40	392.88	459.44	587.89	73.74	86.25	101.01	128.86
C	Placer (LT)	Summer	2035	337.39	392.96	459.42	588.07	73.74	86.29	101.02	128.96
C	Placer (LT)	Winter	2010	338.69	390.84	461.38	574.56	74.90	88.03	99.95	123.15
C	Placer (LT)	Winter	2011	338.41	390.80	460.96	575.56	74.69	87.25	99.98	123.39
C	Placer (LT)	Winter	2012	338.16	390.91	460.63	576.55	74.40	86.88	100.02	123.70
C	Placer (LT)	Winter	2013	338.09	390.97	460.37	577.65	74.28	86.50	100.11	124.04
C	Placer (LT)	Winter	2014	337.95	391.03	460.17	578.66	74.02	86.17	100.18	124.39
C	Placer (LT)	Winter	2015	337.90	391.10	460.01	579.70	73.88	85.86	100.25	124.76
C	Placer (LT)	Winter	2016	337.96	391.21	459.89	580.70	73.88	85.70	100.34	125.12
C	Placer (LT)	Winter	2017	337.94	391.23	459.79	581.61	73.79	85.38	100.40	125.48
C	Placer (LT)	Winter	2018	337.93	391.30	459.73	582.42	73.72	85.22	100.48	125.82
C	Placer (LT)	Winter	2019	337.88	391.40	459.67	583.12	73.61	85.17	100.54	126.14
C	Placer (LT)	Winter	2020	337.90	391.51	459.64	583.71	73.69	85.23	100.64	126.46
C	Placer (LT)	Winter	2021	337.78	391.60	459.62	584.21	73.69	85.32	100.72	126.73
C	Placer (LT)	Winter	2022	337.71	391.68	459.57	584.64	73.71	85.41	100.78	126.98
C	Placer (LT)	Winter	2023	337.58	391.69	459.54	584.96	73.70	85.46	100.83	127.20
C	Placer (LT)	Winter	2024	337.38	391.66	459.50	585.21	73.66	85.51	100.87	127.40
C	Placer (LT)	Winter	2025	337.31	391.74	459.47	585.44	73.66	85.59	100.91	127.59
C	Placer (LT)	Winter	2026	337.31	391.86	459.44	585.69	73.68	85.69	100.94	127.78
C	Placer (LT)	Winter	2027	337.31	391.98	459.42	585.93	73.70	85.78	100.96	127.94
C	Placer (LT)	Winter	2028	337.30	392.09	459.39	586.18	73.71	85.86	100.98	128.10
C	Placer (LT)	Winter	2029	337.27	392.20	459.36	586.42	73.71	85.93	100.99	128.24
C	Placer (LT)	Winter	2030	337.25	392.31	459.31	586.66	73.71	86.00	100.99	128.38
C	Placer (LT)	Winter	2031	337.25	392.42	459.29	586.92	73.72	86.07	101.00	128.51
C	Placer (LT)	Winter	2032	337.24	392.52	459.26	587.18	73.73	86.13	101.01	128.64
C	Placer (LT)	Winter	2033	337.24	392.62	459.24	587.41	73.73	86.19	101.01	128.75
C	Placer (LT)	Winter	2034	337.23	392.70	459.22	587.62	73.74	86.25	101.01	128.86
C	Placer (LT)	Winter	2035	337.23	392.77	459.20	587.80	73.74	86.29	101.02	128.96
C	Placer (MC)	Annual	2010	329.36	386.40	451.66	564.92	74.80	97.65	101.10	126.15
C	Placer (MC)	Annual	2011	329.15	385.52	450.95	565.40	74.33	95.41	100.91	126.13
C	Placer (MC)	Annual	2012	329.07	384.69	450.42	566.02	74.02	93.26	100.87	126.12
C	Placer (MC)	Annual	2013	329.11	384.15	450.00	566.65	73.83	91.74	100.80	126.20
C	Placer (MC)	Annual	2014	329.16	383.61	449.69	567.30	73.68	90.22	100.75	126.29
C	Placer (MC)	Annual	2015	329.24	383.22	449.43	567.96	73.57	89.07	100.72	126.43
C	Placer (MC)	Annual	2016	329.36	382.88	449.24	568.58	73.54	88.05	100.72	126.60
C	Placer (MC)	Annual	2017	329.40	382.34	449.07	569.24	73.43	86.60	100.66	126.74
C	Placer (MC)	Annual	2018	329.36	382.09	448.94	569.80	73.26	85.85	100.69	126.90
C	Placer (MC)	Annual	2019	332.02	385.00	452.39	574.73	73.29	85.50	100.67	127.04
C	Placer (MC)	Annual	2020	332.07	384.86	452.31	575.12	73.38	85.28	100.73	127.19
C	Placer (MC)	Annual	2021	332.12	384.99	452.23	575.34	73.44	85.38	100.80	127.25
C	Placer (MC)	Annual	2022	332.17	385.09	452.15	575.43	73.51	85.47	100.85	127.16
C	Placer (MC)	Annual	2023	332.19	385.15	452.08	575.52	73.55	85.54	100.90	127.30
C	Placer (MC)	Annual	2024	332.17	385.17	452.02	575.58	73.57	85.59	100.94	127.43
C	Placer (MC)	Annual	2025	332.15	385.21	451.97	575.68	73.59	85.65	100.97	127.57
C	Placer (MC)	Annual	2026	332.17	385.30	451.90	575.81	73.61	85.72	100.99	127.72
C	Placer (MC)	Annual	2027	332.18	385.38	451.84	575.95	73.62	85.78	101.01	127.85

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Placer (MC)	Annual	2028	332.18	385.47	451.76	576.09	73.63	85.85	101.01	127.97
C	Placer (MC)	Annual	2029	332.18	385.56	451.67	576.26	73.64	85.91	101.01	128.09
C	Placer (MC)	Annual	2030	332.17	385.66	451.55	576.44	73.64	85.96	100.98	128.21
C	Placer (MC)	Annual	2031	332.17	385.75	451.50	576.67	73.65	86.02	100.99	128.33
C	Placer (MC)	Annual	2032	332.16	385.83	451.46	576.90	73.66	86.07	100.99	128.45
C	Placer (MC)	Annual	2033	332.16	385.91	451.43	577.12	73.66	86.12	100.99	128.57
C	Placer (MC)	Annual	2034	332.16	385.97	451.40	577.32	73.67	86.17	100.99	128.67
C	Placer (MC)	Annual	2035	332.15	386.03	451.37	577.50	73.67	86.20	101.00	128.78
C	Placer (MC)	Summer	2010	352.60	410.10	482.16	602.93	74.80	97.65	101.10	126.15
C	Placer (MC)	Summer	2011	352.62	409.82	481.81	603.49	74.33	95.41	100.91	126.13
C	Placer (MC)	Summer	2012	352.73	409.55	481.54	604.28	74.02	93.26	100.87	126.12
C	Placer (MC)	Summer	2013	352.90	409.38	481.34	605.11	73.83	91.74	100.80	126.20
C	Placer (MC)	Summer	2014	353.06	409.18	481.21	605.99	73.68	90.22	100.75	126.29
C	Placer (MC)	Summer	2015	353.22	409.05	481.09	606.90	73.57	89.07	100.72	126.43
C	Placer (MC)	Summer	2016	353.39	408.90	480.99	607.75	73.54	88.05	100.72	126.60
C	Placer (MC)	Summer	2017	353.47	408.64	480.89	608.64	73.43	86.60	100.66	126.74
C	Placer (MC)	Summer	2018	353.45	408.51	480.77	609.39	73.26	85.85	100.69	126.90
C	Placer (MC)	Summer	2019	356.31	411.72	484.51	614.80	73.29	85.50	100.67	127.04
C	Placer (MC)	Summer	2020	356.34	411.66	484.39	615.29	73.38	85.28	100.73	127.19
C	Placer (MC)	Summer	2021	356.36	411.82	484.28	615.58	73.44	85.38	100.80	127.25
C	Placer (MC)	Summer	2022	356.40	411.97	484.18	615.77	73.51	85.47	100.85	127.16
C	Placer (MC)	Summer	2023	356.40	412.10	484.10	615.91	73.55	85.54	100.90	127.30
C	Placer (MC)	Summer	2024	356.40	412.17	484.02	615.97	73.57	85.59	100.94	127.43
C	Placer (MC)	Summer	2025	356.38	412.27	483.96	616.07	73.59	85.65	100.97	127.57
C	Placer (MC)	Summer	2026	356.41	412.39	483.91	616.17	73.61	85.72	100.99	127.72
C	Placer (MC)	Summer	2027	356.43	412.50	483.87	616.28	73.62	85.78	101.01	127.85
C	Placer (MC)	Summer	2028	356.44	412.63	483.82	616.43	73.63	85.85	101.01	127.97
C	Placer (MC)	Summer	2029	356.46	412.75	483.76	616.60	73.64	85.91	101.01	128.09
C	Placer (MC)	Summer	2030	356.46	412.90	483.67	616.81	73.64	85.96	100.98	128.21
C	Placer (MC)	Summer	2031	356.46	413.02	483.66	617.09	73.65	86.02	100.99	128.33
C	Placer (MC)	Summer	2032	356.46	413.12	483.65	617.39	73.66	86.07	100.99	128.45
C	Placer (MC)	Summer	2033	356.45	413.21	483.63	617.66	73.66	86.12	100.99	128.57
C	Placer (MC)	Summer	2034	356.45	413.29	483.61	617.93	73.67	86.17	100.99	128.67
C	Placer (MC)	Summer	2035	356.44	413.35	483.58	618.17	73.67	86.20	101.00	128.78
C	Placer (MC)	Winter	2010	324.91	381.86	445.82	557.64	74.80	97.65	101.10	126.15
C	Placer (MC)	Winter	2011	324.66	380.86	445.04	558.11	74.33	95.41	100.91	126.13
C	Placer (MC)	Winter	2012	324.54	379.93	444.46	558.70	74.02	93.26	100.87	126.12
C	Placer (MC)	Winter	2013	324.55	379.32	444.00	559.29	73.83	91.74	100.80	126.20
C	Placer (MC)	Winter	2014	324.58	378.71	443.65	559.89	73.68	90.22	100.75	126.29
C	Placer (MC)	Winter	2015	324.65	378.28	443.37	560.51	73.57	89.07	100.72	126.43
C	Placer (MC)	Winter	2016	324.76	377.90	443.16	561.08	73.54	88.05	100.72	126.60
C	Placer (MC)	Winter	2017	324.79	377.30	442.98	561.69	73.43	86.60	100.66	126.74
C	Placer (MC)	Winter	2018	324.75	377.03	442.84	562.22	73.26	85.85	100.69	126.90
C	Placer (MC)	Winter	2019	327.37	379.88	446.24	567.05	73.29	85.50	100.67	127.04
C	Placer (MC)	Winter	2020	327.42	379.73	446.16	567.42	73.38	85.28	100.73	127.19
C	Placer (MC)	Winter	2021	327.47	379.84	446.08	567.62	73.44	85.38	100.80	127.25
C	Placer (MC)	Winter	2022	327.53	379.93	446.02	567.70	73.51	85.47	100.85	127.16
C	Placer (MC)	Winter	2023	327.55	379.99	445.95	567.78	73.55	85.54	100.90	127.30
C	Placer (MC)	Winter	2024	327.53	379.99	445.89	567.83	73.57	85.59	100.94	127.43
C	Placer (MC)	Winter	2025	327.51	380.02	445.84	567.94	73.59	85.65	100.97	127.57
C	Placer (MC)	Winter	2026	327.52	380.10	445.77	568.08	73.61	85.72	100.99	127.72
C	Placer (MC)	Winter	2027	327.53	380.18	445.70	568.22	73.62	85.78	101.01	127.85
C	Placer (MC)	Winter	2028	327.53	380.27	445.62	568.36	73.63	85.85	101.01	127.97
C	Placer (MC)	Winter	2029	327.53	380.35	445.52	568.53	73.64	85.91	101.01	128.09

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Placer (MC)	Winter	2030	327.52	380.43	445.39	568.71	73.64	85.96	100.98	128.21
C	Placer (MC)	Winter	2031	327.52	380.52	445.34	568.92	73.65	86.02	100.99	128.33
C	Placer (MC)	Winter	2032	327.51	380.60	445.29	569.15	73.66	86.07	100.99	128.45
C	Placer (MC)	Winter	2033	327.51	380.67	445.26	569.35	73.66	86.12	100.99	128.57
C	Placer (MC)	Winter	2034	327.50	380.74	445.22	569.54	73.67	86.17	100.99	128.67
C	Placer (MC)	Winter	2035	327.50	380.79	445.19	569.71	73.67	86.20	101.00	128.78
C	Placer (SV)	Annual	2010	330.73	381.91	453.82	574.66	73.02	85.63	99.77	125.72
C	Placer (SV)	Annual	2011	330.94	382.54	453.73	575.15	73.00	85.31	99.84	125.93
C	Placer (SV)	Annual	2012	331.14	383.12	453.66	575.67	72.98	85.12	99.94	126.16
C	Placer (SV)	Annual	2013	331.36	383.59	453.61	576.19	73.02	84.98	100.04	126.39
C	Placer (SV)	Annual	2014	331.54	384.02	453.59	576.71	73.02	84.89	100.12	126.62
C	Placer (SV)	Annual	2015	331.72	384.39	453.58	577.22	73.07	84.82	100.20	126.84
C	Placer (SV)	Annual	2016	331.89	384.74	453.58	577.72	73.15	84.80	100.28	127.07
C	Placer (SV)	Annual	2017	332.02	385.03	453.57	578.18	73.21	84.75	100.34	127.30
C	Placer (SV)	Annual	2018	332.13	385.29	453.57	578.57	73.26	84.74	100.42	127.51
C	Placer (SV)	Annual	2019	331.61	384.84	452.75	577.85	73.32	84.86	100.50	127.69
C	Placer (SV)	Annual	2020	331.69	385.06	452.74	578.14	73.41	84.99	100.58	127.86
C	Placer (SV)	Annual	2021	331.75	385.26	452.73	578.36	73.48	85.13	100.66	127.99
C	Placer (SV)	Annual	2022	331.79	385.43	452.72	578.54	73.53	85.25	100.72	128.10
C	Placer (SV)	Annual	2023	331.81	385.56	452.70	578.69	73.57	85.36	100.78	128.24
C	Placer (SV)	Annual	2024	331.82	385.67	452.69	578.81	73.59	85.45	100.82	128.36
C	Placer (SV)	Annual	2025	331.83	385.78	452.68	578.93	73.61	85.53	100.86	128.48
C	Placer (SV)	Annual	2026	331.85	385.89	452.67	579.04	73.63	85.62	100.89	128.59
C	Placer (SV)	Annual	2027	331.87	385.99	452.65	579.14	73.64	85.69	100.92	128.68
C	Placer (SV)	Annual	2028	331.88	386.10	452.64	579.25	73.65	85.75	100.94	128.77
C	Placer (SV)	Annual	2029	331.89	386.21	452.63	579.35	73.66	85.82	100.95	128.85
C	Placer (SV)	Annual	2030	331.89	386.32	452.63	579.46	73.67	85.88	100.96	128.92
C	Placer (SV)	Annual	2031	331.90	386.42	452.62	579.56	73.67	85.94	100.97	128.99
C	Placer (SV)	Annual	2032	331.90	386.52	452.61	579.67	73.67	85.99	100.97	129.06
C	Placer (SV)	Annual	2033	331.90	386.60	452.61	579.77	73.68	86.04	100.98	129.12
C	Placer (SV)	Annual	2034	331.90	386.68	452.60	579.86	73.68	86.08	100.99	129.18
C	Placer (SV)	Annual	2035	331.90	386.73	452.60	579.94	73.68	86.12	100.99	129.23
C	Placer (SV)	Summer	2010	369.31	422.83	505.21	639.49	73.02	85.63	99.77	125.72
C	Placer (SV)	Summer	2011	369.67	424.09	505.18	639.85	73.00	85.31	99.84	125.93
C	Placer (SV)	Summer	2012	369.99	425.15	505.19	640.33	72.98	85.12	99.94	126.16
C	Placer (SV)	Summer	2013	370.30	425.98	505.22	640.88	73.02	84.98	100.04	126.39
C	Placer (SV)	Summer	2014	370.56	426.69	505.30	641.49	73.02	84.89	100.12	126.62
C	Placer (SV)	Summer	2015	370.79	427.26	505.37	642.12	73.07	84.82	100.20	126.84
C	Placer (SV)	Summer	2016	370.99	427.77	505.47	642.78	73.15	84.80	100.28	127.07
C	Placer (SV)	Summer	2017	371.13	428.22	505.53	643.41	73.21	84.75	100.34	127.30
C	Placer (SV)	Summer	2018	371.24	428.59	505.55	643.93	73.26	84.74	100.42	127.51
C	Placer (SV)	Summer	2019	370.64	428.12	504.63	643.16	73.32	84.86	100.50	127.69
C	Placer (SV)	Summer	2020	370.71	428.40	504.60	643.51	73.41	84.99	100.58	127.86
C	Placer (SV)	Summer	2021	370.75	428.64	504.55	643.79	73.48	85.13	100.66	127.99
C	Placer (SV)	Summer	2022	370.78	428.85	504.51	644.02	73.53	85.25	100.72	128.10
C	Placer (SV)	Summer	2023	370.81	429.03	504.48	644.20	73.57	85.36	100.78	128.24
C	Placer (SV)	Summer	2024	370.81	429.19	504.44	644.33	73.59	85.45	100.82	128.36
C	Placer (SV)	Summer	2025	370.82	429.33	504.41	644.45	73.61	85.53	100.86	128.48
C	Placer (SV)	Summer	2026	370.84	429.49	504.38	644.55	73.63	85.62	100.89	128.59
C	Placer (SV)	Summer	2027	370.86	429.64	504.37	644.64	73.64	85.69	100.92	128.68
C	Placer (SV)	Summer	2028	370.88	429.80	504.36	644.75	73.65	85.75	100.94	128.77
C	Placer (SV)	Summer	2029	370.90	429.96	504.35	644.85	73.66	85.82	100.95	128.85
C	Placer (SV)	Summer	2030	370.91	430.12	504.35	644.96	73.67	85.88	100.96	128.92
C	Placer (SV)	Summer	2031	370.92	430.27	504.34	645.06	73.67	85.94	100.97	128.99

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Placer (SV)	Summer	2032	370.92	430.41	504.33	645.17	73.67	85.99	100.97	129.06
C	Placer (SV)	Summer	2033	370.93	430.52	504.33	645.28	73.68	86.04	100.98	129.12
C	Placer (SV)	Summer	2034	370.93	430.61	504.33	645.39	73.68	86.08	100.99	129.18
C	Placer (SV)	Summer	2035	370.92	430.68	504.32	645.50	73.68	86.12	100.99	129.23
C	Placer (SV)	Winter	2010	320.40	370.94	440.06	557.29	73.02	85.63	99.77	125.72
C	Placer (SV)	Winter	2011	320.57	371.41	439.94	557.81	73.00	85.31	99.84	125.93
C	Placer (SV)	Winter	2012	320.73	371.86	439.86	558.35	72.98	85.12	99.94	126.16
C	Placer (SV)	Winter	2013	320.93	372.24	439.79	558.86	73.02	84.98	100.04	126.39
C	Placer (SV)	Winter	2014	321.08	372.59	439.74	559.36	73.02	84.89	100.12	126.62
C	Placer (SV)	Winter	2015	321.25	372.91	439.70	559.84	73.07	84.82	100.20	126.84
C	Placer (SV)	Winter	2016	321.42	373.21	439.68	560.29	73.15	84.80	100.28	127.07
C	Placer (SV)	Winter	2017	321.54	373.46	439.65	560.71	73.21	84.75	100.34	127.30
C	Placer (SV)	Winter	2018	321.65	373.69	439.64	561.06	73.26	84.74	100.42	127.51
C	Placer (SV)	Winter	2019	321.15	373.25	438.84	560.35	73.32	84.86	100.50	127.69
C	Placer (SV)	Winter	2020	321.23	373.45	438.84	560.62	73.41	84.99	100.58	127.86
C	Placer (SV)	Winter	2021	321.29	373.63	438.84	560.82	73.48	85.13	100.66	127.99
C	Placer (SV)	Winter	2022	321.34	373.79	438.83	561.00	73.53	85.25	100.72	128.10
C	Placer (SV)	Winter	2023	321.36	373.92	438.83	561.14	73.57	85.36	100.78	128.24
C	Placer (SV)	Winter	2024	321.37	374.01	438.82	561.25	73.59	85.45	100.82	128.36
C	Placer (SV)	Winter	2025	321.38	374.10	438.82	561.37	73.61	85.53	100.86	128.48
C	Placer (SV)	Winter	2026	321.40	374.20	438.81	561.48	73.63	85.62	100.89	128.59
C	Placer (SV)	Winter	2027	321.42	374.30	438.80	561.59	73.64	85.69	100.92	128.68
C	Placer (SV)	Winter	2028	321.43	374.39	438.79	561.70	73.65	85.75	100.94	128.77
C	Placer (SV)	Winter	2029	321.43	374.48	438.78	561.80	73.66	85.82	100.95	128.85
C	Placer (SV)	Winter	2030	321.44	374.58	438.77	561.91	73.67	85.88	100.96	128.92
C	Placer (SV)	Winter	2031	321.44	374.67	438.76	562.01	73.67	85.94	100.97	128.99
C	Placer (SV)	Winter	2032	321.44	374.76	438.76	562.12	73.67	85.99	100.97	129.06
C	Placer (SV)	Winter	2033	321.45	374.83	438.75	562.21	73.68	86.04	100.98	129.12
C	Placer (SV)	Winter	2034	321.45	374.90	438.74	562.30	73.68	86.08	100.99	129.18
C	Placer (SV)	Winter	2035	321.44	374.96	438.74	562.37	73.68	86.12	100.99	129.23
C	Plumas (MC)	Annual	2010	383.48	448.24	524.45	653.78	74.50	93.88	101.47	124.70
C	Plumas (MC)	Annual	2011	383.12	447.42	523.71	654.62	74.27	92.26	101.32	124.82
C	Plumas (MC)	Annual	2012	382.79	446.84	523.14	655.56	73.97	91.08	101.21	124.99
C	Plumas (MC)	Annual	2013	382.71	446.31	522.67	656.57	73.86	90.01	101.00	125.19
C	Plumas (MC)	Annual	2014	382.50	445.90	522.32	657.55	73.59	89.13	100.92	125.40
C	Plumas (MC)	Annual	2015	382.45	445.52	522.05	658.55	73.48	88.27	100.95	125.66
C	Plumas (MC)	Annual	2016	382.50	445.23	521.82	659.51	73.48	87.57	100.95	125.92
C	Plumas (MC)	Annual	2017	382.49	444.92	521.63	660.38	73.43	86.78	100.84	126.20
C	Plumas (MC)	Annual	2018	382.47	444.69	521.48	661.15	73.38	86.22	100.83	126.45
C	Plumas (MC)	Annual	2019	382.41	444.56	521.35	661.77	73.32	85.87	100.81	126.70
C	Plumas (MC)	Annual	2020	382.39	444.47	521.25	662.32	73.39	85.75	100.84	126.93
C	Plumas (MC)	Annual	2021	382.31	444.37	521.14	662.71	73.42	85.71	100.88	127.10
C	Plumas (MC)	Annual	2022	382.11	444.28	521.03	663.00	73.41	85.69	100.91	127.19
C	Plumas (MC)	Annual	2023	381.98	444.15	520.94	663.22	73.42	85.64	100.93	127.37
C	Plumas (MC)	Annual	2024	381.82	444.05	520.85	663.39	73.40	85.62	100.95	127.54
C	Plumas (MC)	Annual	2025	381.72	444.07	520.79	663.57	73.41	85.67	100.98	127.71
C	Plumas (MC)	Annual	2026	381.70	444.20	520.72	663.78	73.43	85.76	101.00	127.87
C	Plumas (MC)	Annual	2027	381.70	444.30	520.66	664.00	73.44	85.84	101.01	128.03
C	Plumas (MC)	Annual	2028	381.68	444.43	520.60	664.24	73.45	85.91	101.02	128.17
C	Plumas (MC)	Annual	2029	381.63	444.54	520.52	664.46	73.45	85.98	101.01	128.30
C	Plumas (MC)	Annual	2030	381.60	444.65	520.45	664.68	73.45	86.04	101.01	128.43
C	Plumas (MC)	Annual	2031	381.59	444.76	520.41	664.95	73.46	86.10	101.01	128.56
C	Plumas (MC)	Annual	2032	381.58	444.86	520.38	665.22	73.46	86.16	101.01	128.68
C	Plumas (MC)	Annual	2033	381.57	444.95	520.36	665.45	73.47	86.21	101.01	128.79

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Plumas (MC)	Annual	2034	381.56	445.03	520.33	665.67	73.47	86.26	101.02	128.89
C	Plumas (MC)	Annual	2035	381.55	445.09	520.31	665.86	73.47	86.30	101.02	128.98
C	Plumas (MC)	Summer	2010	408.76	472.90	558.33	694.63	74.50	93.88	101.47	124.70
C	Plumas (MC)	Summer	2011	408.75	473.23	557.90	695.71	74.27	92.26	101.32	124.82
C	Plumas (MC)	Summer	2012	408.69	473.46	557.59	696.96	73.97	91.08	101.21	124.99
C	Plumas (MC)	Summer	2013	408.80	473.57	557.38	698.32	73.86	90.01	101.00	125.19
C	Plumas (MC)	Summer	2014	408.76	473.64	557.21	699.63	73.59	89.13	100.92	125.40
C	Plumas (MC)	Summer	2015	408.82	473.68	557.08	701.00	73.48	88.27	100.95	125.66
C	Plumas (MC)	Summer	2016	408.94	473.71	556.97	702.30	73.48	87.57	100.95	125.92
C	Plumas (MC)	Summer	2017	408.96	473.70	556.88	703.46	73.43	86.78	100.84	126.20
C	Plumas (MC)	Summer	2018	408.94	473.67	556.77	704.48	73.38	86.22	100.83	126.45
C	Plumas (MC)	Summer	2019	408.89	473.69	556.67	705.32	73.32	85.87	100.81	126.70
C	Plumas (MC)	Summer	2020	408.86	473.73	556.58	706.05	73.39	85.75	100.84	126.93
C	Plumas (MC)	Summer	2021	408.78	473.74	556.48	706.60	73.42	85.71	100.88	127.10
C	Plumas (MC)	Summer	2022	408.58	473.77	556.38	707.04	73.41	85.69	100.91	127.19
C	Plumas (MC)	Summer	2023	408.46	473.75	556.30	707.36	73.42	85.64	100.93	127.37
C	Plumas (MC)	Summer	2024	408.30	473.76	556.22	707.63	73.40	85.62	100.95	127.54
C	Plumas (MC)	Summer	2025	408.21	473.84	556.16	707.88	73.41	85.67	100.98	127.71
C	Plumas (MC)	Summer	2026	408.22	474.03	556.10	708.13	73.43	85.76	101.00	127.87
C	Plumas (MC)	Summer	2027	408.23	474.17	556.06	708.38	73.44	85.84	101.01	128.03
C	Plumas (MC)	Summer	2028	408.23	474.35	556.02	708.66	73.45	85.91	101.02	128.17
C	Plumas (MC)	Summer	2029	408.21	474.53	555.96	708.94	73.45	85.98	101.01	128.30
C	Plumas (MC)	Summer	2030	408.20	474.69	555.90	709.22	73.45	86.04	101.01	128.43
C	Plumas (MC)	Summer	2031	408.20	474.85	555.87	709.55	73.46	86.10	101.01	128.56
C	Plumas (MC)	Summer	2032	408.20	474.98	555.85	709.87	73.46	86.16	101.01	128.68
C	Plumas (MC)	Summer	2033	408.19	475.10	555.83	710.16	73.47	86.21	101.01	128.79
C	Plumas (MC)	Summer	2034	408.18	475.21	555.80	710.43	73.47	86.26	101.02	128.89
C	Plumas (MC)	Summer	2035	408.16	475.28	555.78	710.66	73.47	86.30	101.02	128.98
C	Plumas (MC)	Winter	2010	378.05	442.95	517.17	645.01	74.50	93.88	101.47	124.70
C	Plumas (MC)	Winter	2011	377.62	441.88	516.37	645.79	74.27	92.26	101.32	124.82
C	Plumas (MC)	Winter	2012	377.22	441.12	515.74	646.67	73.97	91.08	101.21	124.99
C	Plumas (MC)	Winter	2013	377.10	440.45	515.22	647.61	73.86	90.01	101.00	125.19
C	Plumas (MC)	Winter	2014	376.86	439.94	514.83	648.51	73.59	89.13	100.92	125.40
C	Plumas (MC)	Winter	2015	376.79	439.47	514.52	649.44	73.48	88.27	100.95	125.66
C	Plumas (MC)	Winter	2016	376.82	439.11	514.28	650.32	73.48	87.57	100.95	125.92
C	Plumas (MC)	Winter	2017	376.81	438.74	514.06	651.13	73.43	86.78	100.84	126.20
C	Plumas (MC)	Winter	2018	376.78	438.47	513.90	651.84	73.38	86.22	100.83	126.45
C	Plumas (MC)	Winter	2019	376.73	438.30	513.77	652.42	73.32	85.87	100.81	126.70
C	Plumas (MC)	Winter	2020	376.70	438.19	513.66	652.93	73.39	85.75	100.84	126.93
C	Plumas (MC)	Winter	2021	376.63	438.06	513.55	653.29	73.42	85.71	100.88	127.10
C	Plumas (MC)	Winter	2022	376.42	437.94	513.44	653.55	73.41	85.69	100.91	127.19
C	Plumas (MC)	Winter	2023	376.29	437.79	513.34	653.74	73.42	85.64	100.93	127.37
C	Plumas (MC)	Winter	2024	376.13	437.66	513.26	653.89	73.40	85.62	100.95	127.54
C	Plumas (MC)	Winter	2025	376.03	437.68	513.20	654.05	73.41	85.67	100.98	127.71
C	Plumas (MC)	Winter	2026	376.01	437.79	513.12	654.25	73.43	85.76	101.00	127.87
C	Plumas (MC)	Winter	2027	376.00	437.89	513.06	654.47	73.44	85.84	101.01	128.03
C	Plumas (MC)	Winter	2028	375.97	438.00	513.00	654.70	73.45	85.91	101.02	128.17
C	Plumas (MC)	Winter	2029	375.92	438.10	512.91	654.91	73.45	85.98	101.01	128.30
C	Plumas (MC)	Winter	2030	375.89	438.20	512.83	655.12	73.45	86.04	101.01	128.43
C	Plumas (MC)	Winter	2031	375.88	438.30	512.79	655.37	73.46	86.10	101.01	128.56
C	Plumas (MC)	Winter	2032	375.87	438.39	512.76	655.62	73.46	86.16	101.01	128.68
C	Plumas (MC)	Winter	2033	375.86	438.47	512.74	655.85	73.47	86.21	101.01	128.79
C	Plumas (MC)	Winter	2034	375.85	438.54	512.72	656.06	73.47	86.26	101.02	128.89
C	Plumas (MC)	Winter	2035	375.84	438.60	512.70	656.24	73.47	86.30	101.02	128.98

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Riverside (MD/MDAQMD)	Annual	2010	369.67	426.53	505.92	638.18	73.80	88.32	101.83	126.09
C	Riverside (MD/MDAQMD)	Annual	2011	363.13	419.45	496.23	627.22	73.74	87.52	101.71	126.32
C	Riverside (MD/MDAQMD)	Annual	2012	363.45	420.07	495.98	628.06	73.81	87.02	101.53	126.58
C	Riverside (MD/MDAQMD)	Annual	2013	355.83	411.52	485.10	615.48	73.74	86.56	101.33	126.89
C	Riverside (MD/MDAQMD)	Annual	2014	356.04	411.97	484.98	616.31	73.77	86.37	101.22	127.18
C	Riverside (MD/MDAQMD)	Annual	2015	343.49	397.67	467.64	595.16	73.80	86.23	101.12	127.47
C	Riverside (MD/MDAQMD)	Annual	2016	343.62	397.92	467.57	595.81	73.85	86.05	100.99	127.72
C	Riverside (MD/MDAQMD)	Annual	2017	343.68	398.10	467.49	596.37	73.82	85.88	100.89	127.96
C	Riverside (MD/MDAQMD)	Annual	2018	343.71	398.23	467.40	596.79	73.83	85.77	100.94	128.17
C	Riverside (MD/MDAQMD)	Annual	2019	342.93	397.41	466.27	595.71	73.85	85.71	100.91	128.35
C	Riverside (MD/MDAQMD)	Annual	2020	342.93	397.49	466.18	595.93	73.90	85.74	100.94	128.50
C	Riverside (MD/MDAQMD)	Annual	2021	341.38	395.73	464.03	593.37	73.93	85.79	100.97	128.60
C	Riverside (MD/MDAQMD)	Annual	2022	341.32	395.69	463.91	593.40	73.94	85.82	100.98	128.68
C	Riverside (MD/MDAQMD)	Annual	2023	341.26	395.69	463.82	593.44	73.95	85.86	100.99	128.77
C	Riverside (MD/MDAQMD)	Annual	2024	341.57	396.13	464.28	594.16	73.95	85.89	101.00	128.86
C	Riverside (MD/MDAQMD)	Annual	2025	341.55	396.17	464.23	594.18	73.95	85.94	101.02	128.94
C	Riverside (MD/MDAQMD)	Annual	2026	341.54	396.24	464.17	594.20	73.96	86.00	101.02	129.01
C	Riverside (MD/MDAQMD)	Annual	2027	341.55	396.33	464.13	594.25	73.97	86.05	101.03	129.07
C	Riverside (MD/MDAQMD)	Annual	2028	341.55	396.42	464.10	594.31	73.97	86.10	101.03	129.13
C	Riverside (MD/MDAQMD)	Annual	2029	341.56	396.52	464.08	594.39	73.97	86.15	101.04	129.19
C	Riverside (MD/MDAQMD)	Annual	2030	341.57	396.62	464.07	594.47	73.98	86.19	101.04	129.24
C	Riverside (MD/MDAQMD)	Annual	2031	341.64	396.78	464.16	594.65	73.98	86.23	101.04	129.28
C	Riverside (MD/MDAQMD)	Annual	2032	341.65	396.86	464.15	594.71	73.98	86.26	101.04	129.33
C	Riverside (MD/MDAQMD)	Annual	2033	341.65	396.92	464.14	594.77	73.98	86.29	101.05	129.37
C	Riverside (MD/MDAQMD)	Annual	2034	341.65	396.98	464.13	594.83	73.99	86.32	101.05	129.40
C	Riverside (MD/MDAQMD)	Annual	2035	341.65	397.03	464.13	594.88	73.99	86.34	101.05	129.43
C	Riverside (MD/MDAQMD)	Summer	2010	377.81	434.15	516.42	651.64	73.80	88.32	101.83	126.09
C	Riverside (MD/MDAQMD)	Summer	2011	371.35	427.52	506.84	640.74	73.74	87.52	101.71	126.32
C	Riverside (MD/MDAQMD)	Summer	2012	371.72	428.43	506.69	641.64	73.81	87.02	101.53	126.58
C	Riverside (MD/MDAQMD)	Summer	2013	364.01	420.00	495.73	628.91	73.74	86.56	101.33	126.89
C	Riverside (MD/MDAQMD)	Summer	2014	364.25	420.62	495.68	629.84	73.77	86.37	101.22	127.18
C	Riverside (MD/MDAQMD)	Summer	2015	351.17	405.87	477.68	607.85	73.80	86.23	101.12	127.47
C	Riverside (MD/MDAQMD)	Summer	2016	351.32	406.21	477.66	608.58	73.85	86.05	100.99	127.72
C	Riverside (MD/MDAQMD)	Summer	2017	351.38	406.47	477.62	609.19	73.82	85.88	100.89	127.96
C	Riverside (MD/MDAQMD)	Summer	2018	351.42	406.65	477.53	609.64	73.83	85.77	100.94	128.17
C	Riverside (MD/MDAQMD)	Summer	2019	350.38	405.58	476.07	608.16	73.85	85.71	100.91	128.35
C	Riverside (MD/MDAQMD)	Summer	2020	350.37	405.69	475.97	608.38	73.90	85.74	100.94	128.50
C	Riverside (MD/MDAQMD)	Summer	2021	348.75	403.88	473.74	605.72	73.93	85.79	100.97	128.60
C	Riverside (MD/MDAQMD)	Summer	2022	348.67	403.84	473.61	605.74	73.94	85.82	100.98	128.68
C	Riverside (MD/MDAQMD)	Summer	2023	348.60	403.83	473.50	605.75	73.95	85.86	100.99	128.77
C	Riverside (MD/MDAQMD)	Summer	2024	348.76	404.12	473.75	606.20	73.95	85.89	101.00	128.86
C	Riverside (MD/MDAQMD)	Summer	2025	348.73	404.15	473.70	606.22	73.95	85.94	101.02	128.94
C	Riverside (MD/MDAQMD)	Summer	2026	348.72	404.23	473.62	606.22	73.96	86.00	101.02	129.01
C	Riverside (MD/MDAQMD)	Summer	2027	348.73	404.32	473.59	606.26	73.97	86.05	101.03	129.07
C	Riverside (MD/MDAQMD)	Summer	2028	348.74	404.42	473.56	606.32	73.97	86.10	101.03	129.13
C	Riverside (MD/MDAQMD)	Summer	2029	348.75	404.53	473.55	606.40	73.97	86.15	101.04	129.19
C	Riverside (MD/MDAQMD)	Summer	2030	348.77	404.64	473.54	606.49	73.98	86.19	101.04	129.24
C	Riverside (MD/MDAQMD)	Summer	2031	348.83	404.79	473.62	606.65	73.98	86.23	101.04	129.28
C	Riverside (MD/MDAQMD)	Summer	2032	348.84	404.88	473.60	606.70	73.98	86.26	101.04	129.33
C	Riverside (MD/MDAQMD)	Summer	2033	348.84	404.95	473.59	606.76	73.98	86.29	101.05	129.37
C	Riverside (MD/MDAQMD)	Summer	2034	348.84	405.01	473.58	606.82	73.99	86.32	101.05	129.40
C	Riverside (MD/MDAQMD)	Summer	2035	348.84	405.06	473.57	606.88	73.99	86.34	101.05	129.43
C	Riverside (MD/MDAQMD)	Winter	2010	370.14	426.97	506.53	638.95	73.80	88.32	101.83	126.09
C	Riverside (MD/MDAQMD)	Winter	2011	363.52	419.84	496.74	627.87	73.74	87.52	101.71	126.32

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Riverside (MD/MDAQMD)	Winter	2012	363.85	420.46	496.49	628.71	73.81	87.02	101.53	126.58
C	Riverside (MD/MDAQMD)	Winter	2013	356.20	411.90	485.58	616.08	73.74	86.56	101.33	126.89
C	Riverside (MD/MDAQMD)	Winter	2014	356.41	412.36	485.46	616.93	73.77	86.37	101.22	127.18
C	Riverside (MD/MDAQMD)	Winter	2015	343.96	398.17	468.25	595.93	73.80	86.23	101.12	127.47
C	Riverside (MD/MDAQMD)	Winter	2016	344.09	398.43	468.18	596.59	73.85	86.05	100.99	127.72
C	Riverside (MD/MDAQMD)	Winter	2017	344.14	398.61	468.11	597.15	73.82	85.88	100.89	127.96
C	Riverside (MD/MDAQMD)	Winter	2018	344.18	398.74	468.02	597.57	73.83	85.77	100.94	128.17
C	Riverside (MD/MDAQMD)	Winter	2019	343.49	398.02	467.00	596.64	73.85	85.71	100.91	128.35
C	Riverside (MD/MDAQMD)	Winter	2020	343.49	398.11	466.91	596.86	73.90	85.74	100.94	128.50
C	Riverside (MD/MDAQMD)	Winter	2021	341.93	396.34	464.75	594.29	73.93	85.79	100.97	128.60
C	Riverside (MD/MDAQMD)	Winter	2022	341.87	396.30	464.64	594.33	73.94	85.82	100.98	128.68
C	Riverside (MD/MDAQMD)	Winter	2023	341.81	396.29	464.54	594.36	73.95	85.86	100.99	128.77
C	Riverside (MD/MDAQMD)	Winter	2024	342.18	396.81	465.08	595.17	73.95	85.89	101.00	128.86
C	Riverside (MD/MDAQMD)	Winter	2025	342.15	396.84	465.03	595.20	73.95	85.94	101.02	128.94
C	Riverside (MD/MDAQMD)	Winter	2026	342.15	396.91	464.96	595.22	73.96	86.00	101.02	129.01
C	Riverside (MD/MDAQMD)	Winter	2027	342.15	397.00	464.93	595.26	73.97	86.05	101.03	129.07
C	Riverside (MD/MDAQMD)	Winter	2028	342.16	397.09	464.90	595.32	73.97	86.10	101.03	129.13
C	Riverside (MD/MDAQMD)	Winter	2029	342.17	397.19	464.88	595.40	73.97	86.15	101.04	129.19
C	Riverside (MD/MDAQMD)	Winter	2030	342.18	397.30	464.87	595.48	73.98	86.19	101.04	129.24
C	Riverside (MD/MDAQMD)	Winter	2031	342.26	397.46	464.97	595.67	73.98	86.23	101.04	129.28
C	Riverside (MD/MDAQMD)	Winter	2032	342.26	397.54	464.96	595.73	73.98	86.26	101.04	129.33
C	Riverside (MD/MDAQMD)	Winter	2033	342.26	397.61	464.95	595.79	73.98	86.29	101.05	129.37
C	Riverside (MD/MDAQMD)	Winter	2034	342.26	397.67	464.94	595.85	73.99	86.32	101.05	129.40
C	Riverside (MD/MDAQMD)	Winter	2035	342.26	397.71	464.93	595.90	73.99	86.34	101.05	129.43
C	Riverside (MD/South Coast AQMD)	Annual	2010	368.30	421.09	501.55	627.35	74.21	89.30	100.37	124.62
C	Riverside (MD/South Coast AQMD)	Annual	2011	364.70	417.57	496.50	622.41	73.31	88.07	100.40	124.81
C	Riverside (MD/South Coast AQMD)	Annual	2012	365.13	418.21	496.21	623.50	73.47	87.63	100.46	125.06
C	Riverside (MD/South Coast AQMD)	Annual	2013	364.41	417.34	494.60	622.65	73.63	86.84	100.29	125.29
C	Riverside (MD/South Coast AQMD)	Annual	2014	364.62	417.45	494.44	623.55	73.54	85.83	100.38	125.53
C	Riverside (MD/South Coast AQMD)	Annual	2015	360.62	413.24	488.80	617.43	73.46	85.76	100.49	125.76
C	Riverside (MD/South Coast AQMD)	Annual	2016	360.86	413.52	488.70	618.47	73.61	85.42	100.59	125.87
C	Riverside (MD/South Coast AQMD)	Annual	2017	360.81	413.70	488.63	619.42	73.30	84.92	100.34	126.01
C	Riverside (MD/South Coast AQMD)	Annual	2018	361.00	413.85	488.56	620.00	73.42	84.56	100.45	126.29
C	Riverside (MD/South Coast AQMD)	Annual	2019	360.39	413.29	487.47	619.19	73.52	84.71	100.55	126.54
C	Riverside (MD/South Coast AQMD)	Annual	2020	360.36	413.49	487.42	619.63	73.53	84.74	100.63	126.78
C	Riverside (MD/South Coast AQMD)	Annual	2021	357.25	410.70	483.71	615.42	73.38	84.91	100.71	127.03
C	Riverside (MD/South Coast AQMD)	Annual	2022	357.24	411.02	483.66	615.84	73.37	85.06	100.75	127.25
C	Riverside (MD/South Coast AQMD)	Annual	2023	357.29	411.28	483.62	616.06	73.42	85.19	100.79	127.40
C	Riverside (MD/South Coast AQMD)	Annual	2024	353.97	407.66	479.14	610.61	73.45	85.28	100.82	127.55
C	Riverside (MD/South Coast AQMD)	Annual	2025	354.02	407.88	479.11	610.79	73.47	85.39	100.84	127.70
C	Riverside (MD/South Coast AQMD)	Annual	2026	354.03	408.12	479.09	611.05	73.49	85.50	100.88	127.88
C	Riverside (MD/South Coast AQMD)	Annual	2027	354.04	408.39	479.07	611.31	73.50	85.60	100.90	128.04
C	Riverside (MD/South Coast AQMD)	Annual	2028	354.03	408.61	479.05	611.54	73.51	85.69	100.92	128.18
C	Riverside (MD/South Coast AQMD)	Annual	2029	354.00	408.81	478.99	611.77	73.51	85.77	100.93	128.31
C	Riverside (MD/South Coast AQMD)	Annual	2030	353.99	408.95	478.97	612.01	73.51	85.84	100.94	128.44
C	Riverside (MD/South Coast AQMD)	Annual	2031	348.76	403.17	472.01	603.39	73.52	85.91	100.94	128.56
C	Riverside (MD/South Coast AQMD)	Annual	2032	348.75	403.31	471.99	603.62	73.52	85.98	100.95	128.67
C	Riverside (MD/South Coast AQMD)	Annual	2033	348.75	403.45	471.97	603.82	73.53	86.04	100.95	128.77
C	Riverside (MD/South Coast AQMD)	Annual	2034	348.75	403.54	471.94	604.00	73.53	86.09	100.95	128.86
C	Riverside (MD/South Coast AQMD)	Annual	2035	348.75	403.63	471.92	604.15	73.54	86.13	100.96	128.94
C	Riverside (MD/South Coast AQMD)	Summer	2010	375.92	428.57	511.53	639.58	74.21	89.30	100.37	124.62
C	Riverside (MD/South Coast AQMD)	Summer	2011	372.44	425.34	506.60	634.78	73.31	88.07	100.40	124.81
C	Riverside (MD/South Coast AQMD)	Summer	2012	372.90	426.14	506.36	635.94	73.47	87.63	100.46	125.06
C	Riverside (MD/South Coast AQMD)	Summer	2013	372.17	425.39	504.79	635.14	73.63	86.84	100.29	125.29

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Riverside (MD/South Coast AQMD)	Summer	2014	372.39	425.65	504.66	636.10	73.54	85.83	100.38	125.53
C	Riverside (MD/South Coast AQMD)	Summer	2015	368.38	421.47	499.01	630.01	73.46	85.76	100.49	125.76
C	Riverside (MD/South Coast AQMD)	Summer	2016	368.61	421.83	498.93	631.14	73.61	85.42	100.59	125.87
C	Riverside (MD/South Coast AQMD)	Summer	2017	368.58	422.08	498.91	632.16	73.30	84.92	100.34	126.01
C	Riverside (MD/South Coast AQMD)	Summer	2018	368.76	422.29	498.84	632.79	73.42	84.56	100.45	126.29
C	Riverside (MD/South Coast AQMD)	Summer	2019	368.21	421.80	497.81	632.10	73.52	84.71	100.55	126.54
C	Riverside (MD/South Coast AQMD)	Summer	2020	368.19	422.05	497.77	632.57	73.53	84.74	100.63	126.78
C	Riverside (MD/South Coast AQMD)	Summer	2021	365.00	419.18	493.93	628.25	73.38	84.91	100.71	127.03
C	Riverside (MD/South Coast AQMD)	Summer	2022	365.00	419.52	493.91	628.71	73.37	85.06	100.75	127.25
C	Riverside (MD/South Coast AQMD)	Summer	2023	365.06	419.82	493.88	628.97	73.42	85.19	100.79	127.40
C	Riverside (MD/South Coast AQMD)	Summer	2024	361.68	416.17	489.34	623.45	73.45	85.28	100.82	127.55
C	Riverside (MD/South Coast AQMD)	Summer	2025	361.74	416.41	489.31	623.66	73.47	85.39	100.84	127.70
C	Riverside (MD/South Coast AQMD)	Summer	2026	361.74	416.69	489.30	623.93	73.49	85.50	100.88	127.88
C	Riverside (MD/South Coast AQMD)	Summer	2027	361.75	416.99	489.28	624.20	73.50	85.60	100.90	128.04
C	Riverside (MD/South Coast AQMD)	Summer	2028	361.74	417.23	489.25	624.45	73.51	85.69	100.92	128.18
C	Riverside (MD/South Coast AQMD)	Summer	2029	361.71	417.46	489.20	624.68	73.51	85.77	100.93	128.31
C	Riverside (MD/South Coast AQMD)	Summer	2030	361.70	417.60	489.17	624.93	73.51	85.84	100.94	128.44
C	Riverside (MD/South Coast AQMD)	Summer	2031	356.48	411.83	482.22	616.32	73.52	85.91	100.94	128.56
C	Riverside (MD/South Coast AQMD)	Summer	2032	356.47	411.98	482.20	616.56	73.52	85.98	100.95	128.67
C	Riverside (MD/South Coast AQMD)	Summer	2033	356.47	412.12	482.18	616.78	73.53	86.04	100.95	128.77
C	Riverside (MD/South Coast AQMD)	Summer	2034	356.47	412.23	482.15	616.96	73.53	86.09	100.95	128.86
C	Riverside (MD/South Coast AQMD)	Summer	2035	356.47	412.31	482.14	617.12	73.54	86.13	100.96	128.94
C	Riverside (MD/South Coast AQMD)	Winter	2010	367.80	420.60	500.90	626.55	74.21	89.30	100.37	124.62
C	Riverside (MD/South Coast AQMD)	Winter	2011	364.17	417.04	495.80	621.56	73.31	88.07	100.40	124.81
C	Riverside (MD/South Coast AQMD)	Winter	2012	364.60	417.67	495.51	622.64	73.47	87.63	100.46	125.06
C	Riverside (MD/South Coast AQMD)	Winter	2013	363.88	416.78	493.90	621.79	73.63	86.84	100.29	125.29
C	Riverside (MD/South Coast AQMD)	Winter	2014	364.09	416.89	493.73	622.68	73.54	85.83	100.38	125.53
C	Riverside (MD/South Coast AQMD)	Winter	2015	360.08	412.67	488.09	616.56	73.46	85.76	100.49	125.76
C	Riverside (MD/South Coast AQMD)	Winter	2016	360.32	412.95	487.99	617.59	73.61	85.42	100.59	125.87
C	Riverside (MD/South Coast AQMD)	Winter	2017	360.27	413.11	487.92	618.53	73.30	84.92	100.34	126.01
C	Riverside (MD/South Coast AQMD)	Winter	2018	360.46	413.26	487.85	619.11	73.42	84.56	100.45	126.29
C	Riverside (MD/South Coast AQMD)	Winter	2019	359.82	412.66	486.71	618.24	73.52	84.71	100.55	126.54
C	Riverside (MD/South Coast AQMD)	Winter	2020	359.79	412.87	486.67	618.68	73.53	84.74	100.63	126.78
C	Riverside (MD/South Coast AQMD)	Winter	2021	356.70	410.11	482.99	614.53	73.38	84.91	100.71	127.03
C	Riverside (MD/South Coast AQMD)	Winter	2022	356.70	410.42	482.95	614.94	73.37	85.06	100.75	127.25
C	Riverside (MD/South Coast AQMD)	Winter	2023	356.75	410.69	482.90	615.16	73.42	85.19	100.79	127.40
C	Riverside (MD/South Coast AQMD)	Winter	2024	353.42	407.06	478.42	609.70	73.45	85.28	100.82	127.55
C	Riverside (MD/South Coast AQMD)	Winter	2025	353.47	407.28	478.39	609.88	73.47	85.39	100.84	127.70
C	Riverside (MD/South Coast AQMD)	Winter	2026	353.48	407.52	478.37	610.14	73.49	85.50	100.88	127.88
C	Riverside (MD/South Coast AQMD)	Winter	2027	353.49	407.78	478.35	610.40	73.50	85.60	100.90	128.04
C	Riverside (MD/South Coast AQMD)	Winter	2028	353.49	408.00	478.32	610.63	73.51	85.69	100.92	128.18
C	Riverside (MD/South Coast AQMD)	Winter	2029	353.45	408.20	478.26	610.85	73.51	85.77	100.93	128.31
C	Riverside (MD/South Coast AQMD)	Winter	2030	353.44	408.34	478.24	611.09	73.51	85.84	100.94	128.44
C	Riverside (MD/South Coast AQMD)	Winter	2031	348.17	402.51	471.23	602.40	73.52	85.91	100.94	128.56
C	Riverside (MD/South Coast AQMD)	Winter	2032	348.17	402.65	471.21	602.63	73.52	85.98	100.95	128.67
C	Riverside (MD/South Coast AQMD)	Winter	2033	348.17	402.78	471.19	602.83	73.53	86.04	100.95	128.77
C	Riverside (MD/South Coast AQMD)	Winter	2034	348.16	402.88	471.16	603.01	73.53	86.09	100.95	128.86
C	Riverside (MD/South Coast AQMD)	Winter	2035	348.16	402.97	471.14	603.16	73.54	86.13	100.96	128.94
C	Riverside (SC)	Annual	2010	330.61	378.40	452.04	571.52	73.26	83.74	99.63	125.20
C	Riverside (SC)	Annual	2011	330.55	378.98	451.62	571.70	73.27	83.73	99.72	125.46
C	Riverside (SC)	Annual	2012	330.76	379.75	451.57	572.32	73.30	83.78	99.83	125.73
C	Riverside (SC)	Annual	2013	331.56	381.10	452.35	573.99	73.35	83.84	99.94	126.00
C	Riverside (SC)	Annual	2014	331.76	381.69	452.34	574.61	73.39	83.91	100.04	126.27
C	Riverside (SC)	Annual	2015	330.28	380.32	450.07	572.35	73.45	84.02	100.14	126.55

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Riverside (SC)	Annual	2016	330.47	380.81	450.07	572.90	73.52	84.14	100.24	126.81
C	Riverside (SC)	Annual	2017	330.61	381.25	450.08	573.42	73.57	84.25	100.32	127.07
C	Riverside (SC)	Annual	2018	330.73	381.62	450.08	573.86	73.62	84.36	100.39	127.30
C	Riverside (SC)	Annual	2019	330.84	382.00	450.08	574.28	73.67	84.54	100.48	127.53
C	Riverside (SC)	Annual	2020	330.93	382.33	450.08	574.64	73.76	84.73	100.56	127.74
C	Riverside (SC)	Annual	2021	331.65	383.36	450.95	576.02	73.83	84.91	100.65	127.90
C	Riverside (SC)	Annual	2022	331.69	383.60	450.94	576.24	73.88	85.06	100.71	128.05
C	Riverside (SC)	Annual	2023	331.71	383.78	450.92	576.41	73.92	85.20	100.77	128.20
C	Riverside (SC)	Annual	2024	332.10	384.41	451.45	577.22	73.94	85.32	100.81	128.33
C	Riverside (SC)	Annual	2025	332.10	384.56	451.44	577.35	73.96	85.43	100.85	128.45
C	Riverside (SC)	Annual	2026	332.12	384.71	451.42	577.47	73.98	85.53	100.89	128.57
C	Riverside (SC)	Annual	2027	332.13	384.85	451.41	577.58	73.99	85.62	100.91	128.67
C	Riverside (SC)	Annual	2028	332.13	385.00	451.40	577.69	74.00	85.70	100.93	128.76
C	Riverside (SC)	Annual	2029	332.13	385.14	451.39	577.80	74.01	85.78	100.94	128.85
C	Riverside (SC)	Annual	2030	332.13	385.28	451.38	577.91	74.01	85.85	100.95	128.92
C	Riverside (SC)	Annual	2031	332.06	385.34	451.29	577.92	74.02	85.92	100.96	129.00
C	Riverside (SC)	Annual	2032	332.06	385.47	451.29	578.03	74.02	85.99	100.97	129.07
C	Riverside (SC)	Annual	2033	332.06	385.59	451.29	578.14	74.02	86.05	100.97	129.13
C	Riverside (SC)	Annual	2034	332.05	385.69	451.28	578.24	74.03	86.10	100.98	129.19
C	Riverside (SC)	Annual	2035	332.05	385.77	451.28	578.33	74.03	86.15	100.98	129.25
C	Riverside (SC)	Summer	2010	357.99	406.64	488.13	617.11	73.26	83.74	99.63	125.20
C	Riverside (SC)	Summer	2011	358.00	407.69	487.77	617.21	73.27	83.73	99.72	125.46
C	Riverside (SC)	Summer	2012	358.27	408.86	487.80	617.86	73.30	83.78	99.83	125.73
C	Riverside (SC)	Summer	2013	359.18	410.58	488.73	619.69	73.35	83.84	99.94	126.00
C	Riverside (SC)	Summer	2014	359.43	411.42	488.83	620.44	73.39	83.91	100.04	126.27
C	Riverside (SC)	Summer	2015	357.84	410.09	486.45	618.08	73.45	84.02	100.14	126.55
C	Riverside (SC)	Summer	2016	358.07	410.74	486.54	618.78	73.52	84.14	100.24	126.81
C	Riverside (SC)	Summer	2017	358.25	411.31	486.60	619.42	73.57	84.25	100.32	127.07
C	Riverside (SC)	Summer	2018	358.38	411.77	486.62	619.96	73.62	84.36	100.39	127.30
C	Riverside (SC)	Summer	2019	358.52	412.25	486.65	620.48	73.67	84.54	100.48	127.53
C	Riverside (SC)	Summer	2020	358.63	412.66	486.66	620.93	73.76	84.73	100.56	127.74
C	Riverside (SC)	Summer	2021	359.40	413.82	487.58	622.43	73.83	84.91	100.65	127.90
C	Riverside (SC)	Summer	2022	359.44	414.11	487.54	622.67	73.88	85.06	100.71	128.05
C	Riverside (SC)	Summer	2023	359.45	414.35	487.50	622.84	73.92	85.20	100.77	128.20
C	Riverside (SC)	Summer	2024	359.88	415.08	488.05	623.73	73.94	85.32	100.81	128.33
C	Riverside (SC)	Summer	2025	359.88	415.29	488.02	623.84	73.96	85.43	100.85	128.45
C	Riverside (SC)	Summer	2026	359.88	415.48	488.00	623.94	73.98	85.53	100.89	128.57
C	Riverside (SC)	Summer	2027	359.89	415.67	487.98	624.04	73.99	85.62	100.91	128.67
C	Riverside (SC)	Summer	2028	359.90	415.85	487.97	624.14	74.00	85.70	100.93	128.76
C	Riverside (SC)	Summer	2029	359.90	416.04	487.97	624.25	74.01	85.78	100.94	128.85
C	Riverside (SC)	Summer	2030	359.90	416.22	487.97	624.36	74.01	85.85	100.95	128.92
C	Riverside (SC)	Summer	2031	359.83	416.35	487.90	624.40	74.02	85.92	100.96	129.00
C	Riverside (SC)	Summer	2032	359.82	416.52	487.90	624.53	74.02	85.99	100.97	129.07
C	Riverside (SC)	Summer	2033	359.82	416.67	487.90	624.65	74.02	86.05	100.97	129.13
C	Riverside (SC)	Summer	2034	359.82	416.80	487.89	624.78	74.03	86.10	100.98	129.19
C	Riverside (SC)	Summer	2035	359.82	416.89	487.89	624.88	74.03	86.15	100.98	129.25
C	Riverside (SC)	Winter	2010	325.98	373.62	445.94	563.82	73.26	83.74	99.63	125.20
C	Riverside (SC)	Winter	2011	325.92	374.13	445.52	564.01	73.27	83.73	99.72	125.46
C	Riverside (SC)	Winter	2012	326.12	374.83	445.45	564.63	73.30	83.78	99.83	125.73
C	Riverside (SC)	Winter	2013	326.90	376.11	446.20	566.26	73.35	83.84	99.94	126.00
C	Riverside (SC)	Winter	2014	327.08	376.67	446.18	566.87	73.39	83.91	100.04	126.27
C	Riverside (SC)	Winter	2015	325.62	375.29	443.92	564.62	73.45	84.02	100.14	126.55
C	Riverside (SC)	Winter	2016	325.80	375.75	443.91	565.15	73.52	84.14	100.24	126.81
C	Riverside (SC)	Winter	2017	325.94	376.17	443.90	565.64	73.57	84.25	100.32	127.07

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Riverside (SC)	Winter	2018	326.05	376.52	443.90	566.07	73.62	84.36	100.39	127.30
C	Riverside (SC)	Winter	2019	326.16	376.88	443.90	566.47	73.67	84.54	100.48	127.53
C	Riverside (SC)	Winter	2020	326.25	377.20	443.90	566.82	73.76	84.73	100.56	127.74
C	Riverside (SC)	Winter	2021	326.96	378.22	444.77	568.19	73.83	84.91	100.65	127.90
C	Riverside (SC)	Winter	2022	327.00	378.44	444.76	568.40	73.88	85.06	100.71	128.05
C	Riverside (SC)	Winter	2023	327.02	378.62	444.75	568.56	73.92	85.20	100.77	128.20
C	Riverside (SC)	Winter	2024	327.40	379.22	445.26	569.36	73.94	85.32	100.81	128.33
C	Riverside (SC)	Winter	2025	327.41	379.36	445.25	569.49	73.96	85.43	100.85	128.45
C	Riverside (SC)	Winter	2026	327.42	379.51	445.24	569.61	73.98	85.53	100.89	128.57
C	Riverside (SC)	Winter	2027	327.43	379.64	445.23	569.72	73.99	85.62	100.91	128.67
C	Riverside (SC)	Winter	2028	327.44	379.78	445.22	569.84	74.00	85.70	100.93	128.76
C	Riverside (SC)	Winter	2029	327.44	379.91	445.21	569.95	74.01	85.78	100.94	128.85
C	Riverside (SC)	Winter	2030	327.44	380.04	445.20	570.06	74.01	85.85	100.95	128.92
C	Riverside (SC)	Winter	2031	327.36	380.09	445.10	570.05	74.02	85.92	100.96	129.00
C	Riverside (SC)	Winter	2032	327.36	380.22	445.09	570.16	74.02	85.99	100.97	129.07
C	Riverside (SC)	Winter	2033	327.36	380.33	445.09	570.27	74.02	86.05	100.97	129.13
C	Riverside (SC)	Winter	2034	327.35	380.42	445.09	570.36	74.03	86.10	100.98	129.19
C	Riverside (SC)	Winter	2035	327.35	380.50	445.08	570.45	74.03	86.15	100.98	129.25
C	Riverside (SS)	Annual	2010	345.46	396.10	472.54	596.54	72.91	83.80	99.54	124.93
C	Riverside (SS)	Annual	2011	344.74	395.84	471.06	595.48	72.99	83.84	99.65	125.24
C	Riverside (SS)	Annual	2012	345.04	396.66	471.03	596.25	73.08	83.91	99.78	125.55
C	Riverside (SS)	Annual	2013	343.99	395.85	469.20	594.73	73.18	84.00	99.91	125.87
C	Riverside (SS)	Annual	2014	344.25	396.49	469.22	595.50	73.27	84.11	100.03	126.18
C	Riverside (SS)	Annual	2015	342.36	394.67	466.40	592.65	73.35	84.23	100.15	126.49
C	Riverside (SS)	Annual	2016	342.56	395.18	466.43	593.33	73.44	84.37	100.27	126.78
C	Riverside (SS)	Annual	2017	342.72	395.62	466.45	593.94	73.51	84.48	100.36	127.06
C	Riverside (SS)	Annual	2018	342.82	395.99	466.46	594.46	73.56	84.61	100.44	127.32
C	Riverside (SS)	Annual	2019	342.80	396.23	466.32	594.75	73.63	84.79	100.52	127.56
C	Riverside (SS)	Annual	2020	342.88	396.55	466.32	595.17	73.71	84.97	100.61	127.78
C	Riverside (SS)	Annual	2021	343.69	397.75	467.39	596.87	73.77	85.14	100.69	127.97
C	Riverside (SS)	Annual	2022	343.72	397.99	467.38	597.16	73.81	85.28	100.75	128.14
C	Riverside (SS)	Annual	2023	343.72	398.19	467.37	597.38	73.84	85.41	100.81	128.29
C	Riverside (SS)	Annual	2024	348.57	403.98	473.99	606.03	73.86	85.52	100.85	128.43
C	Riverside (SS)	Annual	2025	348.57	404.13	473.98	606.18	73.88	85.62	100.88	128.56
C	Riverside (SS)	Annual	2026	348.58	404.26	473.95	606.32	73.89	85.71	100.91	128.68
C	Riverside (SS)	Annual	2027	348.58	404.39	473.93	606.44	73.91	85.79	100.93	128.78
C	Riverside (SS)	Annual	2028	348.59	404.52	473.91	606.56	73.91	85.86	100.95	128.87
C	Riverside (SS)	Annual	2029	348.59	404.64	473.90	606.67	73.92	85.92	100.96	128.95
C	Riverside (SS)	Annual	2030	348.60	404.76	473.89	606.79	73.92	85.99	100.97	129.03
C	Riverside (SS)	Annual	2031	356.78	414.43	485.07	621.23	73.93	86.04	100.98	129.10
C	Riverside (SS)	Annual	2032	356.78	414.55	485.07	621.35	73.93	86.10	100.99	129.16
C	Riverside (SS)	Annual	2033	356.78	414.65	485.06	621.45	73.93	86.14	100.99	129.22
C	Riverside (SS)	Annual	2034	356.78	414.73	485.06	621.55	73.94	86.19	100.99	129.27
C	Riverside (SS)	Annual	2035	356.78	414.80	485.06	621.64	73.94	86.22	101.00	129.32
C	Riverside (SS)	Summer	2010	351.02	401.92	479.90	605.78	72.91	83.80	99.54	124.93
C	Riverside (SS)	Summer	2011	350.36	401.79	478.48	604.78	72.99	83.84	99.65	125.24
C	Riverside (SS)	Summer	2012	350.68	402.68	478.47	605.56	73.08	83.91	99.78	125.55
C	Riverside (SS)	Summer	2013	349.60	401.89	476.60	604.00	73.18	84.00	99.91	125.87
C	Riverside (SS)	Summer	2014	349.87	402.57	476.63	604.79	73.27	84.11	100.03	126.18
C	Riverside (SS)	Summer	2015	348.02	400.82	473.87	602.03	73.35	84.23	100.15	126.49
C	Riverside (SS)	Summer	2016	348.23	401.36	473.91	602.73	73.44	84.37	100.27	126.78
C	Riverside (SS)	Summer	2017	348.39	401.83	473.94	603.38	73.51	84.48	100.36	127.06
C	Riverside (SS)	Summer	2018	348.50	402.21	473.95	603.92	73.56	84.61	100.44	127.32
C	Riverside (SS)	Summer	2019	348.48	402.47	473.82	604.23	73.63	84.79	100.52	127.56

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Riverside (SS)	Summer	2020	348.57	402.81	473.83	604.66	73.71	84.97	100.61	127.78
C	Riverside (SS)	Summer	2021	349.38	404.03	474.91	606.40	73.77	85.14	100.69	127.97
C	Riverside (SS)	Summer	2022	349.41	404.29	474.90	606.70	73.81	85.28	100.75	128.14
C	Riverside (SS)	Summer	2023	349.41	404.50	474.89	606.93	73.84	85.41	100.81	128.29
C	Riverside (SS)	Summer	2024	354.32	410.38	481.59	615.69	73.86	85.52	100.85	128.43
C	Riverside (SS)	Summer	2025	354.32	410.53	481.58	615.85	73.88	85.62	100.88	128.56
C	Riverside (SS)	Summer	2026	354.33	410.67	481.55	615.98	73.89	85.71	100.91	128.68
C	Riverside (SS)	Summer	2027	354.33	410.80	481.52	616.10	73.91	85.79	100.93	128.78
C	Riverside (SS)	Summer	2028	354.34	410.94	481.50	616.22	73.91	85.86	100.95	128.87
C	Riverside (SS)	Summer	2029	354.35	411.07	481.49	616.33	73.92	85.92	100.96	128.95
C	Riverside (SS)	Summer	2030	354.35	411.20	481.48	616.45	73.92	85.99	100.97	129.03
C	Riverside (SS)	Summer	2031	362.73	421.10	492.92	631.22	73.93	86.04	100.98	129.10
C	Riverside (SS)	Summer	2032	362.73	421.22	492.92	631.34	73.93	86.10	100.99	129.16
C	Riverside (SS)	Summer	2033	362.73	421.32	492.91	631.45	73.93	86.14	100.99	129.22
C	Riverside (SS)	Summer	2034	362.73	421.41	492.91	631.55	73.94	86.19	100.99	129.27
C	Riverside (SS)	Summer	2035	362.72	421.48	492.91	631.64	73.94	86.22	101.00	129.32
C	Riverside (SS)	Winter	2010	325.60	375.29	446.23	563.52	72.91	83.80	99.54	124.93
C	Riverside (SS)	Winter	2011	324.87	374.79	444.80	562.57	72.99	83.84	99.65	125.24
C	Riverside (SS)	Winter	2012	325.11	375.37	444.73	563.31	73.08	83.91	99.78	125.55
C	Riverside (SS)	Winter	2013	324.10	374.44	442.96	561.85	73.18	84.00	99.91	125.87
C	Riverside (SS)	Winter	2014	324.31	374.92	442.92	562.52	73.27	84.11	100.03	126.18
C	Riverside (SS)	Winter	2015	322.52	373.10	440.22	559.77	73.35	84.23	100.15	126.49
C	Riverside (SS)	Winter	2016	322.69	373.51	440.21	560.35	73.44	84.37	100.27	126.78
C	Riverside (SS)	Winter	2017	322.83	373.87	440.19	560.87	73.51	84.48	100.36	127.06
C	Riverside (SS)	Winter	2018	322.93	374.18	440.18	561.32	73.56	84.61	100.44	127.32
C	Riverside (SS)	Winter	2019	322.91	374.36	440.04	561.55	73.63	84.79	100.52	127.56
C	Riverside (SS)	Winter	2020	322.98	374.63	440.03	561.91	73.71	84.97	100.61	127.78
C	Riverside (SS)	Winter	2021	323.74	375.72	441.03	563.48	73.77	85.14	100.69	127.97
C	Riverside (SS)	Winter	2022	323.78	375.91	441.03	563.73	73.81	85.28	100.75	128.14
C	Riverside (SS)	Winter	2023	323.79	376.06	441.02	563.92	73.84	85.41	100.81	128.29
C	Riverside (SS)	Winter	2024	328.34	381.51	447.26	572.06	73.86	85.52	100.85	128.43
C	Riverside (SS)	Winter	2025	328.35	381.62	447.25	572.22	73.88	85.62	100.88	128.56
C	Riverside (SS)	Winter	2026	328.36	381.74	447.25	572.36	73.89	85.71	100.91	128.68
C	Riverside (SS)	Winter	2027	328.37	381.84	447.24	572.49	73.91	85.79	100.93	128.78
C	Riverside (SS)	Winter	2028	328.38	381.95	447.23	572.61	73.91	85.86	100.95	128.87
C	Riverside (SS)	Winter	2029	328.38	382.05	447.22	572.73	73.92	85.92	100.96	128.95
C	Riverside (SS)	Winter	2030	328.38	382.15	447.22	572.85	73.92	85.99	100.97	129.03
C	Riverside (SS)	Winter	2031	336.08	391.25	457.76	586.47	73.93	86.04	100.98	129.10
C	Riverside (SS)	Winter	2032	336.08	391.34	457.75	586.58	73.93	86.10	100.99	129.16
C	Riverside (SS)	Winter	2033	336.08	391.43	457.75	586.68	73.93	86.14	100.99	129.22
C	Riverside (SS)	Winter	2034	336.08	391.50	457.75	586.76	73.94	86.19	100.99	129.27
C	Riverside (SS)	Winter	2035	336.08	391.56	457.74	586.84	73.94	86.22	101.00	129.32
C	Sacramento (SV)	Annual	2010	338.27	388.45	463.58	584.38	72.89	84.85	99.62	124.76
C	Sacramento (SV)	Annual	2011	338.59	389.26	463.49	584.93	72.94	84.61	99.69	124.96
C	Sacramento (SV)	Annual	2012	338.89	389.98	463.44	585.56	73.00	84.46	99.78	125.19
C	Sacramento (SV)	Annual	2013	339.19	390.61	463.40	586.25	73.08	84.39	99.88	125.44
C	Sacramento (SV)	Annual	2014	339.46	391.17	463.38	586.94	73.15	84.34	99.96	125.69
C	Sacramento (SV)	Annual	2015	339.72	391.68	463.38	587.65	73.24	84.33	100.03	125.96
C	Sacramento (SV)	Annual	2016	339.95	392.11	463.38	588.32	73.35	84.32	100.13	126.23
C	Sacramento (SV)	Annual	2017	340.12	392.49	463.38	588.95	73.41	84.30	100.21	126.50
C	Sacramento (SV)	Annual	2018	340.26	392.81	463.37	589.51	73.47	84.32	100.29	126.76
C	Sacramento (SV)	Annual	2019	338.61	391.09	460.99	586.96	73.53	84.47	100.38	126.99
C	Sacramento (SV)	Annual	2020	338.72	391.37	460.98	587.40	73.64	84.63	100.47	127.20
C	Sacramento (SV)	Annual	2021	338.80	391.64	460.97	587.73	73.72	84.80	100.57	127.38

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Sacramento (SV)	Annual	2022	338.84	391.86	460.96	588.00	73.78	84.95	100.64	127.54
C	Sacramento (SV)	Annual	2023	338.86	392.04	460.94	588.22	73.82	85.07	100.71	127.71
C	Sacramento (SV)	Annual	2024	338.87	392.19	460.92	588.37	73.85	85.19	100.76	127.86
C	Sacramento (SV)	Annual	2025	338.88	392.32	460.91	588.52	73.87	85.29	100.81	128.00
C	Sacramento (SV)	Annual	2026	338.89	392.46	460.90	588.69	73.89	85.39	100.85	128.15
C	Sacramento (SV)	Annual	2027	338.90	392.59	460.89	588.86	73.91	85.48	100.88	128.28
C	Sacramento (SV)	Annual	2028	338.91	392.72	460.89	589.02	73.92	85.56	100.90	128.39
C	Sacramento (SV)	Annual	2029	338.91	392.85	460.87	589.18	73.93	85.64	100.92	128.50
C	Sacramento (SV)	Annual	2030	338.91	392.98	460.87	589.35	73.93	85.71	100.93	128.60
C	Sacramento (SV)	Annual	2031	338.92	393.12	460.86	589.51	73.94	85.79	100.94	128.70
C	Sacramento (SV)	Annual	2032	338.92	393.24	460.86	589.69	73.94	85.85	100.95	128.80
C	Sacramento (SV)	Annual	2033	338.92	393.34	460.85	589.84	73.95	85.91	100.96	128.88
C	Sacramento (SV)	Annual	2034	338.92	393.44	460.84	589.99	73.95	85.97	100.96	128.96
C	Sacramento (SV)	Annual	2035	338.92	393.51	460.84	590.12	73.95	86.02	100.97	129.04
C	Sacramento (SV)	Summer	2010	375.62	427.51	513.20	646.48	72.89	84.85	99.62	124.76
C	Sacramento (SV)	Summer	2011	376.19	429.01	513.26	646.92	72.94	84.61	99.69	124.96
C	Sacramento (SV)	Summer	2012	376.70	430.30	513.35	647.57	73.00	84.46	99.78	125.19
C	Sacramento (SV)	Summer	2013	377.16	431.37	513.46	648.38	73.08	84.39	99.88	125.44
C	Sacramento (SV)	Summer	2014	377.55	432.28	513.62	649.25	73.15	84.34	99.96	125.69
C	Sacramento (SV)	Summer	2015	377.89	433.05	513.77	650.20	73.24	84.33	100.03	125.96
C	Sacramento (SV)	Summer	2016	378.19	433.69	513.89	651.12	73.35	84.32	100.13	126.23
C	Sacramento (SV)	Summer	2017	378.39	434.26	513.97	651.99	73.41	84.30	100.21	126.50
C	Sacramento (SV)	Summer	2018	378.53	434.71	513.99	652.74	73.47	84.32	100.29	126.76
C	Sacramento (SV)	Summer	2019	376.67	432.84	511.33	650.00	73.53	84.47	100.38	126.99
C	Sacramento (SV)	Summer	2020	376.76	433.18	511.31	650.57	73.64	84.63	100.47	127.20
C	Sacramento (SV)	Summer	2021	376.83	433.55	511.26	650.99	73.72	84.80	100.57	127.38
C	Sacramento (SV)	Summer	2022	376.86	433.86	511.21	651.34	73.78	84.95	100.64	127.54
C	Sacramento (SV)	Summer	2023	376.88	434.12	511.16	651.60	73.82	85.07	100.71	127.71
C	Sacramento (SV)	Summer	2024	376.89	434.33	511.11	651.76	73.85	85.19	100.76	127.86
C	Sacramento (SV)	Summer	2025	376.91	434.52	511.07	651.91	73.87	85.29	100.81	128.00
C	Sacramento (SV)	Summer	2026	376.91	434.70	511.07	652.09	73.89	85.39	100.85	128.15
C	Sacramento (SV)	Summer	2027	376.93	434.88	511.07	652.26	73.91	85.48	100.88	128.28
C	Sacramento (SV)	Summer	2028	376.94	435.06	511.07	652.43	73.92	85.56	100.90	128.39
C	Sacramento (SV)	Summer	2029	376.95	435.25	511.08	652.61	73.93	85.64	100.92	128.50
C	Sacramento (SV)	Summer	2030	376.96	435.44	511.08	652.80	73.93	85.71	100.93	128.60
C	Sacramento (SV)	Summer	2031	376.96	435.63	511.08	652.97	73.94	85.79	100.94	128.70
C	Sacramento (SV)	Summer	2032	376.97	435.80	511.07	653.16	73.94	85.85	100.95	128.80
C	Sacramento (SV)	Summer	2033	376.98	435.94	511.07	653.35	73.95	85.91	100.96	128.88
C	Sacramento (SV)	Summer	2034	376.98	436.06	511.06	653.53	73.95	85.97	100.96	128.96
C	Sacramento (SV)	Summer	2035	376.98	436.16	511.05	653.69	73.95	86.02	100.97	129.04
C	Sacramento (SV)	Winter	2010	328.26	377.97	450.28	567.73	72.89	84.85	99.62	124.76
C	Sacramento (SV)	Winter	2011	328.50	378.59	450.15	568.31	72.94	84.61	99.69	124.96
C	Sacramento (SV)	Winter	2012	328.76	379.17	450.05	568.93	73.00	84.46	99.78	125.19
C	Sacramento (SV)	Winter	2013	329.01	379.69	449.97	569.59	73.08	84.39	99.88	125.44
C	Sacramento (SV)	Winter	2014	329.25	380.15	449.91	570.23	73.15	84.34	99.96	125.69
C	Sacramento (SV)	Winter	2015	329.48	380.58	449.87	570.88	73.24	84.33	100.03	125.96
C	Sacramento (SV)	Winter	2016	329.69	380.95	449.84	571.48	73.35	84.32	100.13	126.23
C	Sacramento (SV)	Winter	2017	329.86	381.29	449.81	572.05	73.41	84.30	100.21	126.50
C	Sacramento (SV)	Winter	2018	329.99	381.58	449.80	572.55	73.47	84.32	100.29	126.76
C	Sacramento (SV)	Winter	2019	328.41	379.90	447.49	570.06	73.53	84.47	100.38	126.99
C	Sacramento (SV)	Winter	2020	328.52	380.16	447.49	570.46	73.64	84.63	100.47	127.20
C	Sacramento (SV)	Winter	2021	328.60	380.41	447.49	570.77	73.72	84.80	100.57	127.38
C	Sacramento (SV)	Winter	2022	328.65	380.61	447.49	571.03	73.78	84.95	100.64	127.54
C	Sacramento (SV)	Winter	2023	328.67	380.77	447.48	571.23	73.82	85.07	100.71	127.71

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Sacramento (SV)	Winter	2024	328.67	380.89	447.47	571.38	73.85	85.19	100.76	127.86
C	Sacramento (SV)	Winter	2025	328.68	381.01	447.47	571.53	73.87	85.29	100.81	128.00
C	Sacramento (SV)	Winter	2026	328.70	381.14	447.46	571.70	73.89	85.39	100.85	128.15
C	Sacramento (SV)	Winter	2027	328.71	381.25	447.45	571.86	73.91	85.48	100.88	128.28
C	Sacramento (SV)	Winter	2028	328.72	381.37	447.43	572.02	73.92	85.56	100.90	128.39
C	Sacramento (SV)	Winter	2029	328.72	381.49	447.42	572.18	73.93	85.64	100.92	128.50
C	Sacramento (SV)	Winter	2030	328.72	381.60	447.41	572.34	73.93	85.71	100.93	128.60
C	Sacramento (SV)	Winter	2031	328.72	381.72	447.40	572.50	73.94	85.79	100.94	128.70
C	Sacramento (SV)	Winter	2032	328.72	381.83	447.39	572.67	73.94	85.85	100.95	128.80
C	Sacramento (SV)	Winter	2033	328.72	381.92	447.39	572.82	73.95	85.91	100.96	128.88
C	Sacramento (SV)	Winter	2034	328.72	382.01	447.38	572.96	73.95	85.97	100.96	128.96
C	Sacramento (SV)	Winter	2035	328.71	382.08	447.37	573.07	73.95	86.02	100.97	129.04
C	San Benito (NCC)	Annual	2010	325.03	378.79	446.10	558.62	73.58	90.26	100.51	124.39
C	San Benito (NCC)	Annual	2011	324.49	377.95	444.83	558.19	73.44	89.27	100.47	124.58
C	San Benito (NCC)	Annual	2012	324.56	377.80	444.45	558.83	73.36	88.39	100.46	124.79
C	San Benito (NCC)	Annual	2013	324.65	377.73	444.16	559.51	73.29	87.78	100.47	125.03
C	San Benito (NCC)	Annual	2014	324.77	377.62	443.93	560.19	73.27	87.07	100.45	125.29
C	San Benito (NCC)	Annual	2015	324.91	377.55	443.75	560.89	73.27	86.50	100.41	125.55
C	San Benito (NCC)	Annual	2016	325.03	377.52	443.61	561.56	73.28	86.06	100.42	125.83
C	San Benito (NCC)	Annual	2017	325.14	377.48	443.50	562.21	73.30	85.60	100.47	126.11
C	San Benito (NCC)	Annual	2018	325.25	377.47	443.42	562.78	73.34	85.28	100.54	126.37
C	San Benito (NCC)	Annual	2019	325.34	377.52	443.35	563.28	73.38	85.14	100.57	126.63
C	San Benito (NCC)	Annual	2020	325.44	377.57	443.30	563.72	73.48	85.11	100.63	126.87
C	San Benito (NCC)	Annual	2021	327.69	380.23	446.27	567.90	73.56	85.21	100.71	127.04
C	San Benito (NCC)	Annual	2022	327.72	380.33	446.23	568.20	73.62	85.30	100.77	127.19
C	San Benito (NCC)	Annual	2023	327.73	380.40	446.18	568.43	73.65	85.38	100.82	127.38
C	San Benito (NCC)	Annual	2024	327.70	380.45	446.14	568.59	73.67	85.46	100.87	127.55
C	San Benito (NCC)	Annual	2025	327.68	380.50	446.10	568.77	73.69	85.53	100.90	127.71
C	San Benito (NCC)	Annual	2026	326.83	379.57	444.86	567.43	73.71	85.60	100.93	127.87
C	San Benito (NCC)	Annual	2027	326.84	379.64	444.80	567.61	73.73	85.66	100.94	128.01
C	San Benito (NCC)	Annual	2028	326.84	379.71	444.76	567.79	73.74	85.72	100.96	128.14
C	San Benito (NCC)	Annual	2029	326.84	379.78	444.71	567.97	73.75	85.78	100.96	128.26
C	San Benito (NCC)	Annual	2030	326.83	379.86	444.66	568.16	73.75	85.83	100.96	128.38
C	San Benito (NCC)	Annual	2031	326.83	379.95	444.63	568.37	73.76	85.89	100.97	128.50
C	San Benito (NCC)	Annual	2032	326.83	380.02	444.61	568.59	73.76	85.94	100.97	128.62
C	San Benito (NCC)	Annual	2033	326.83	380.08	444.59	568.79	73.77	85.98	100.97	128.73
C	San Benito (NCC)	Annual	2034	326.82	380.15	444.56	568.97	73.77	86.03	100.98	128.83
C	San Benito (NCC)	Annual	2035	326.82	380.20	444.55	569.13	73.77	86.07	100.98	128.92
C	San Benito (NCC)	Summer	2010	348.46	403.82	476.85	597.56	73.58	90.26	100.51	124.39
C	San Benito (NCC)	Summer	2011	348.02	403.22	475.82	597.01	73.44	89.27	100.47	124.58
C	San Benito (NCC)	Summer	2012	348.22	403.33	475.66	597.67	73.36	88.39	100.46	124.79
C	San Benito (NCC)	Summer	2013	348.41	403.45	475.54	598.44	73.29	87.78	100.47	125.03
C	San Benito (NCC)	Summer	2014	348.61	403.53	475.46	599.25	73.27	87.07	100.45	125.29
C	San Benito (NCC)	Summer	2015	348.80	403.62	475.40	600.11	73.27	86.50	100.41	125.55
C	San Benito (NCC)	Summer	2016	348.97	403.71	475.33	600.96	73.28	86.06	100.42	125.83
C	San Benito (NCC)	Summer	2017	349.11	403.80	475.24	601.77	73.30	85.60	100.47	126.11
C	San Benito (NCC)	Summer	2018	349.22	403.90	475.15	602.48	73.34	85.28	100.54	126.37
C	San Benito (NCC)	Summer	2019	349.32	404.05	475.09	603.09	73.38	85.14	100.57	126.63
C	San Benito (NCC)	Summer	2020	349.41	404.18	475.03	603.62	73.48	85.11	100.63	126.87
C	San Benito (NCC)	Summer	2021	351.80	407.05	478.18	608.12	73.56	85.21	100.71	127.04
C	San Benito (NCC)	Summer	2022	351.84	407.19	478.12	608.48	73.62	85.30	100.77	127.19
C	San Benito (NCC)	Summer	2023	351.84	407.30	478.07	608.74	73.65	85.38	100.82	127.38
C	San Benito (NCC)	Summer	2024	351.83	407.39	478.02	608.91	73.67	85.46	100.87	127.55
C	San Benito (NCC)	Summer	2025	351.81	407.48	477.98	609.08	73.69	85.53	100.90	127.71

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	San Benito (NCC)	Summer	2026	350.90	406.50	476.68	607.62	73.71	85.60	100.93	127.87
C	San Benito (NCC)	Summer	2027	350.91	406.57	476.64	607.79	73.73	85.66	100.94	128.01
C	San Benito (NCC)	Summer	2028	350.91	406.66	476.62	607.96	73.74	85.72	100.96	128.14
C	San Benito (NCC)	Summer	2029	350.92	406.76	476.59	608.15	73.75	85.78	100.96	128.26
C	San Benito (NCC)	Summer	2030	350.91	406.88	476.56	608.35	73.75	85.83	100.96	128.38
C	San Benito (NCC)	Summer	2031	350.91	406.98	476.54	608.60	73.76	85.89	100.97	128.50
C	San Benito (NCC)	Summer	2032	350.91	407.07	476.53	608.85	73.76	85.94	100.97	128.62
C	San Benito (NCC)	Summer	2033	350.91	407.14	476.52	609.09	73.77	85.98	100.97	128.73
C	San Benito (NCC)	Summer	2034	350.91	407.22	476.50	609.32	73.77	86.03	100.98	128.83
C	San Benito (NCC)	Summer	2035	350.90	407.28	476.48	609.52	73.77	86.07	100.98	128.92
C	San Benito (NCC)	Winter	2010	322.42	376.00	442.67	554.28	73.58	90.26	100.51	124.39
C	San Benito (NCC)	Winter	2011	321.86	375.13	441.38	553.87	73.44	89.27	100.47	124.58
C	San Benito (NCC)	Winter	2012	321.93	374.95	440.98	554.50	73.36	88.39	100.46	124.79
C	San Benito (NCC)	Winter	2013	322.00	374.87	440.67	555.17	73.29	87.78	100.47	125.03
C	San Benito (NCC)	Winter	2014	322.12	374.73	440.42	555.83	73.27	87.07	100.45	125.29
C	San Benito (NCC)	Winter	2015	322.25	374.65	440.23	556.52	73.27	86.50	100.41	125.55
C	San Benito (NCC)	Winter	2016	322.36	374.60	440.08	557.17	73.28	86.06	100.42	125.83
C	San Benito (NCC)	Winter	2017	322.47	374.54	439.96	557.80	73.30	85.60	100.47	126.11
C	San Benito (NCC)	Winter	2018	322.58	374.52	439.88	558.36	73.34	85.28	100.54	126.37
C	San Benito (NCC)	Winter	2019	322.67	374.56	439.82	558.85	73.38	85.14	100.57	126.63
C	San Benito (NCC)	Winter	2020	322.76	374.60	439.77	559.28	73.48	85.11	100.63	126.87
C	San Benito (NCC)	Winter	2021	325.00	377.24	442.71	563.42	73.56	85.21	100.71	127.04
C	San Benito (NCC)	Winter	2022	325.04	377.33	442.67	563.71	73.62	85.30	100.77	127.19
C	San Benito (NCC)	Winter	2023	325.04	377.40	442.63	563.94	73.65	85.38	100.82	127.38
C	San Benito (NCC)	Winter	2024	325.01	377.45	442.59	564.10	73.67	85.46	100.87	127.55
C	San Benito (NCC)	Winter	2025	324.99	377.50	442.55	564.28	73.69	85.53	100.90	127.71
C	San Benito (NCC)	Winter	2026	324.15	376.57	441.32	562.96	73.71	85.60	100.93	127.87
C	San Benito (NCC)	Winter	2027	324.16	376.63	441.26	563.14	73.73	85.66	100.94	128.01
C	San Benito (NCC)	Winter	2028	324.16	376.70	441.21	563.31	73.74	85.72	100.96	128.14
C	San Benito (NCC)	Winter	2029	324.15	376.78	441.16	563.50	73.75	85.78	100.96	128.26
C	San Benito (NCC)	Winter	2030	324.15	376.85	441.11	563.68	73.75	85.83	100.96	128.38
C	San Benito (NCC)	Winter	2031	324.15	376.93	441.08	563.89	73.76	85.89	100.97	128.50
C	San Benito (NCC)	Winter	2032	324.14	377.01	441.05	564.10	73.76	85.94	100.97	128.62
C	San Benito (NCC)	Winter	2033	324.14	377.07	441.03	564.30	73.77	85.98	100.97	128.73
C	San Benito (NCC)	Winter	2034	324.14	377.13	441.00	564.48	73.77	86.03	100.98	128.83
C	San Benito (NCC)	Winter	2035	324.13	377.18	440.99	564.63	73.77	86.07	100.98	128.92
C	San Bernardino (MD)	Annual	2010	340.99	391.67	465.83	586.60	73.90	86.73	100.39	125.34
C	San Bernardino (MD)	Annual	2011	340.30	391.38	464.50	585.97	73.82	86.20	100.37	125.56
C	San Bernardino (MD)	Annual	2012	340.45	391.95	464.33	586.73	73.80	85.85	100.40	125.81
C	San Bernardino (MD)	Annual	2013	339.36	390.94	462.54	585.33	73.76	85.58	100.42	126.05
C	San Bernardino (MD)	Annual	2014	339.48	391.26	462.45	586.03	73.71	85.30	100.42	126.29
C	San Bernardino (MD)	Annual	2015	336.34	387.79	457.95	581.12	73.70	85.10	100.45	126.55
C	San Bernardino (MD)	Annual	2016	336.48	388.06	457.90	581.76	73.72	84.97	100.48	126.80
C	San Bernardino (MD)	Annual	2017	336.59	388.29	457.86	582.35	73.71	84.82	100.50	127.04
C	San Bernardino (MD)	Annual	2018	336.66	388.49	457.82	582.86	73.70	84.74	100.51	127.27
C	San Bernardino (MD)	Annual	2019	335.72	387.59	456.41	581.59	73.71	84.81	100.56	127.49
C	San Bernardino (MD)	Annual	2020	335.80	387.84	456.38	582.01	73.79	84.93	100.63	127.69
C	San Bernardino (MD)	Annual	2021	334.92	387.02	455.09	580.70	73.85	85.08	100.70	127.85
C	San Bernardino (MD)	Annual	2022	334.94	387.24	455.05	580.96	73.89	85.22	100.76	127.97
C	San Bernardino (MD)	Annual	2023	334.94	387.42	455.02	581.16	73.92	85.34	100.81	128.13
C	San Bernardino (MD)	Annual	2024	334.33	386.89	454.20	580.31	73.93	85.44	100.85	128.27
C	San Bernardino (MD)	Annual	2025	334.33	387.03	454.18	580.47	73.95	85.54	100.89	128.40
C	San Bernardino (MD)	Annual	2026	334.34	387.19	454.15	580.62	73.97	85.64	100.91	128.53
C	San Bernardino (MD)	Annual	2027	334.35	387.33	454.12	580.76	73.98	85.72	100.93	128.64

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	San Bernardino (MD)	Annual	2028	334.35	387.47	454.10	580.90	73.99	85.80	100.95	128.74
C	San Bernardino (MD)	Annual	2029	334.35	387.61	454.07	581.04	74.00	85.87	100.96	128.83
C	San Bernardino (MD)	Annual	2030	334.34	387.74	454.05	581.17	74.00	85.93	100.96	128.92
C	San Bernardino (MD)	Annual	2031	333.08	386.42	452.34	579.13	74.01	86.00	100.97	129.00
C	San Bernardino (MD)	Annual	2032	333.08	386.54	452.33	579.26	74.01	86.06	100.98	129.07
C	San Bernardino (MD)	Annual	2033	333.08	386.65	452.32	579.38	74.01	86.11	100.98	129.14
C	San Bernardino (MD)	Annual	2034	333.07	386.73	452.31	579.49	74.02	86.16	100.99	129.20
C	San Bernardino (MD)	Annual	2035	333.07	386.80	452.30	579.59	74.02	86.20	100.99	129.25
C	San Bernardino (MD)	Summer	2010	377.87	429.15	513.95	647.62	73.90	86.73	100.39	125.34
C	San Bernardino (MD)	Summer	2011	377.22	429.71	512.80	646.86	73.82	86.20	100.37	125.56
C	San Bernardino (MD)	Summer	2012	377.49	430.99	512.88	647.75	73.80	85.85	100.40	125.81
C	San Bernardino (MD)	Summer	2013	376.35	430.29	511.11	646.28	73.76	85.58	100.42	126.05
C	San Bernardino (MD)	Summer	2014	376.53	431.00	511.22	647.17	73.71	85.30	100.42	126.29
C	San Bernardino (MD)	Summer	2015	373.08	427.39	506.40	641.89	73.70	85.10	100.45	126.55
C	San Bernardino (MD)	Summer	2016	373.30	427.88	506.49	642.74	73.72	84.97	100.48	126.80
C	San Bernardino (MD)	Summer	2017	373.45	428.30	506.54	643.55	73.71	84.82	100.50	127.04
C	San Bernardino (MD)	Summer	2018	373.54	428.65	506.55	644.21	73.70	84.74	100.51	127.27
C	San Bernardino (MD)	Summer	2019	372.54	427.76	505.03	642.91	73.71	84.81	100.56	127.49
C	San Bernardino (MD)	Summer	2020	372.64	428.12	505.01	643.47	73.79	84.93	100.63	127.69
C	San Bernardino (MD)	Summer	2021	371.67	427.32	503.58	642.10	73.85	85.08	100.70	127.85
C	San Bernardino (MD)	Summer	2022	371.71	427.66	503.54	642.44	73.89	85.22	100.76	127.97
C	San Bernardino (MD)	Summer	2023	371.71	427.95	503.51	642.70	73.92	85.34	100.81	128.13
C	San Bernardino (MD)	Summer	2024	371.03	427.44	502.59	641.76	73.93	85.44	100.85	128.27
C	San Bernardino (MD)	Summer	2025	371.03	427.68	502.57	641.95	73.95	85.54	100.89	128.40
C	San Bernardino (MD)	Summer	2026	371.04	427.91	502.53	642.10	73.97	85.64	100.91	128.53
C	San Bernardino (MD)	Summer	2027	371.04	428.12	502.50	642.24	73.98	85.72	100.93	128.64
C	San Bernardino (MD)	Summer	2028	371.04	428.32	502.48	642.38	73.99	85.80	100.95	128.74
C	San Bernardino (MD)	Summer	2029	371.04	428.52	502.46	642.52	74.00	85.87	100.96	128.83
C	San Bernardino (MD)	Summer	2030	371.04	428.71	502.44	642.66	74.00	85.93	100.96	128.92
C	San Bernardino (MD)	Summer	2031	369.65	427.34	500.58	640.44	74.01	86.00	100.97	129.00
C	San Bernardino (MD)	Summer	2032	369.64	427.51	500.58	640.59	74.01	86.06	100.98	129.07
C	San Bernardino (MD)	Summer	2033	369.64	427.65	500.58	640.73	74.01	86.11	100.98	129.14
C	San Bernardino (MD)	Summer	2034	369.64	427.77	500.57	640.87	74.02	86.16	100.99	129.20
C	San Bernardino (MD)	Summer	2035	369.64	427.86	500.57	640.99	74.02	86.20	100.99	129.25
C	San Bernardino (MD)	Winter	2010	330.16	380.67	451.70	568.69	73.90	86.73	100.39	125.34
C	San Bernardino (MD)	Winter	2011	329.46	380.14	450.33	568.10	73.82	86.20	100.37	125.56
C	San Bernardino (MD)	Winter	2012	329.59	380.50	450.09	568.82	73.80	85.85	100.40	125.81
C	San Bernardino (MD)	Winter	2013	328.50	379.38	448.27	567.43	73.76	85.58	100.42	126.05
C	San Bernardino (MD)	Winter	2014	328.60	379.59	448.13	568.07	73.71	85.30	100.42	126.29
C	San Bernardino (MD)	Winter	2015	325.56	376.16	443.73	563.29	73.70	85.10	100.45	126.55
C	San Bernardino (MD)	Winter	2016	325.68	376.37	443.64	563.85	73.72	84.97	100.48	126.80
C	San Bernardino (MD)	Winter	2017	325.76	376.54	443.57	564.39	73.71	84.82	100.50	127.04
C	San Bernardino (MD)	Winter	2018	325.83	376.71	443.51	564.85	73.70	84.74	100.51	127.27
C	San Bernardino (MD)	Winter	2019	324.92	375.81	442.14	563.59	73.71	84.81	100.56	127.49
C	San Bernardino (MD)	Winter	2020	324.99	376.02	442.11	563.97	73.79	84.93	100.63	127.69
C	San Bernardino (MD)	Winter	2021	324.14	375.20	440.86	562.69	73.85	85.08	100.70	127.85
C	San Bernardino (MD)	Winter	2022	324.16	375.38	440.83	562.93	73.89	85.22	100.76	127.97
C	San Bernardino (MD)	Winter	2023	324.15	375.53	440.80	563.11	73.92	85.34	100.81	128.13
C	San Bernardino (MD)	Winter	2024	323.56	375.00	440.01	562.29	73.93	85.44	100.85	128.27
C	San Bernardino (MD)	Winter	2025	323.56	375.11	439.99	562.44	73.95	85.54	100.89	128.40
C	San Bernardino (MD)	Winter	2026	323.57	375.24	439.95	562.59	73.97	85.64	100.91	128.53
C	San Bernardino (MD)	Winter	2027	323.58	375.37	439.93	562.73	73.98	85.72	100.93	128.64
C	San Bernardino (MD)	Winter	2028	323.58	375.49	439.91	562.87	73.99	85.80	100.95	128.74
C	San Bernardino (MD)	Winter	2029	323.58	375.60	439.88	563.00	74.00	85.87	100.96	128.83

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	San Bernardino (MD)	Winter	2030	323.58	375.72	439.85	563.13	74.00	85.93	100.96	128.92
C	San Bernardino (MD)	Winter	2031	322.35	374.41	438.18	561.14	74.01	86.00	100.97	129.00
C	San Bernardino (MD)	Winter	2032	322.35	374.52	438.17	561.27	74.01	86.06	100.98	129.07
C	San Bernardino (MD)	Winter	2033	322.35	374.61	438.16	561.38	74.01	86.11	100.98	129.14
C	San Bernardino (MD)	Winter	2034	322.34	374.69	438.15	561.48	74.02	86.16	100.99	129.20
C	San Bernardino (MD)	Winter	2035	322.34	374.76	438.14	561.57	74.02	86.20	100.99	129.25
C	San Bernardino (SC)	Annual	2010	339.66	388.73	464.33	586.23	73.39	84.10	99.67	125.16
C	San Bernardino (SC)	Annual	2011	341.99	392.10	467.19	590.60	73.38	84.04	99.75	125.39
C	San Bernardino (SC)	Annual	2012	342.17	392.88	467.10	591.25	73.40	84.04	99.85	125.63
C	San Bernardino (SC)	Annual	2013	343.26	394.52	468.27	593.42	73.45	84.04	99.95	125.87
C	San Bernardino (SC)	Annual	2014	343.43	395.06	468.23	594.04	73.48	84.04	100.03	126.12
C	San Bernardino (SC)	Annual	2015	345.48	397.75	470.76	597.94	73.53	84.10	100.12	126.38
C	San Bernardino (SC)	Annual	2016	345.67	398.22	470.75	598.55	73.60	84.17	100.22	126.63
C	San Bernardino (SC)	Annual	2017	345.81	398.64	470.74	599.13	73.64	84.24	100.30	126.88
C	San Bernardino (SC)	Annual	2018	345.92	399.00	470.73	599.62	73.67	84.33	100.37	127.12
C	San Bernardino (SC)	Annual	2019	344.25	397.30	468.27	596.96	73.72	84.50	100.45	127.34
C	San Bernardino (SC)	Annual	2020	344.34	397.63	468.27	597.37	73.81	84.69	100.54	127.55
C	San Bernardino (SC)	Annual	2021	346.63	400.48	471.28	601.51	73.89	84.86	100.63	127.71
C	San Bernardino (SC)	Annual	2022	346.66	400.72	471.26	601.76	73.94	85.01	100.70	127.85
C	San Bernardino (SC)	Annual	2023	346.67	400.92	471.24	601.94	73.97	85.15	100.75	128.01
C	San Bernardino (SC)	Annual	2024	350.85	405.93	476.91	609.35	73.99	85.27	100.80	128.14
C	San Bernardino (SC)	Annual	2025	350.85	406.09	476.89	609.49	74.01	85.37	100.84	128.28
C	San Bernardino (SC)	Annual	2026	350.86	406.25	476.88	609.62	74.03	85.48	100.87	128.40
C	San Bernardino (SC)	Annual	2027	350.87	406.40	476.86	609.75	74.05	85.57	100.90	128.51
C	San Bernardino (SC)	Annual	2028	350.87	406.55	476.84	609.88	74.06	85.66	100.92	128.61
C	San Bernardino (SC)	Annual	2029	350.87	406.71	476.83	610.02	74.06	85.74	100.93	128.70
C	San Bernardino (SC)	Annual	2030	350.87	406.87	476.82	610.15	74.07	85.81	100.94	128.79
C	San Bernardino (SC)	Annual	2031	352.60	409.05	479.18	613.34	74.07	85.89	100.95	128.88
C	San Bernardino (SC)	Annual	2032	352.60	409.21	479.18	613.50	74.08	85.96	100.96	128.96
C	San Bernardino (SC)	Annual	2033	352.60	409.34	479.17	613.65	74.08	86.02	100.97	129.03
C	San Bernardino (SC)	Annual	2034	352.60	409.46	479.17	613.78	74.08	86.08	100.97	129.10
C	San Bernardino (SC)	Annual	2035	352.59	409.55	479.16	613.89	74.09	86.13	100.98	129.17
C	San Bernardino (SC)	Summer	2010	368.22	417.94	501.93	633.75	73.39	84.10	99.67	125.16
C	San Bernardino (SC)	Summer	2011	370.87	422.11	505.20	638.44	73.38	84.04	99.75	125.39
C	San Bernardino (SC)	Summer	2012	371.15	423.36	505.23	639.12	73.40	84.04	99.85	125.63
C	San Bernardino (SC)	Summer	2013	372.38	425.43	506.60	641.49	73.45	84.04	99.95	125.87
C	San Bernardino (SC)	Summer	2014	372.60	426.25	506.67	642.21	73.48	84.04	100.03	126.12
C	San Bernardino (SC)	Summer	2015	374.88	429.36	509.55	646.57	73.53	84.10	100.12	126.38
C	San Bernardino (SC)	Summer	2016	375.13	430.02	509.63	647.35	73.60	84.17	100.22	126.63
C	San Bernardino (SC)	Summer	2017	375.32	430.61	509.69	648.09	73.64	84.24	100.30	126.88
C	San Bernardino (SC)	Summer	2018	375.45	431.08	509.71	648.71	73.67	84.33	100.37	127.12
C	San Bernardino (SC)	Summer	2019	373.62	429.29	507.04	645.87	73.72	84.50	100.45	127.34
C	San Bernardino (SC)	Summer	2020	373.74	429.71	507.04	646.38	73.81	84.69	100.54	127.55
C	San Bernardino (SC)	Summer	2021	376.24	432.88	510.33	650.95	73.89	84.86	100.63	127.71
C	San Bernardino (SC)	Summer	2022	376.28	433.20	510.29	651.23	73.94	85.01	100.70	127.85
C	San Bernardino (SC)	Summer	2023	376.28	433.46	510.25	651.43	73.97	85.15	100.75	128.01
C	San Bernardino (SC)	Summer	2024	380.91	439.05	516.50	659.60	73.99	85.27	100.80	128.14
C	San Bernardino (SC)	Summer	2025	380.90	439.27	516.47	659.73	74.01	85.37	100.84	128.28
C	San Bernardino (SC)	Summer	2026	380.91	439.49	516.44	659.84	74.03	85.48	100.87	128.40
C	San Bernardino (SC)	Summer	2027	380.91	439.69	516.43	659.96	74.05	85.57	100.90	128.51
C	San Bernardino (SC)	Summer	2028	380.91	439.90	516.42	660.08	74.06	85.66	100.92	128.61
C	San Bernardino (SC)	Summer	2029	380.91	440.11	516.41	660.21	74.06	85.74	100.93	128.70
C	San Bernardino (SC)	Summer	2030	380.92	440.32	516.41	660.35	74.07	85.81	100.94	128.79
C	San Bernardino (SC)	Summer	2031	382.84	442.80	519.04	663.90	74.07	85.89	100.95	128.88

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	San Bernardino (SC)	Summer	2032	382.83	443.01	519.04	664.10	74.08	85.96	100.96	128.96
C	San Bernardino (SC)	Summer	2033	382.83	443.18	519.04	664.28	74.08	86.02	100.97	129.03
C	San Bernardino (SC)	Summer	2034	382.83	443.34	519.04	664.45	74.08	86.08	100.97	129.10
C	San Bernardino (SC)	Summer	2035	382.83	443.45	519.03	664.60	74.09	86.13	100.98	129.17
C	San Bernardino (SC)	Winter	2010	334.32	383.27	457.30	577.34	73.39	84.10	99.67	125.16
C	San Bernardino (SC)	Winter	2011	336.58	386.48	460.07	581.64	73.38	84.04	99.75	125.39
C	San Bernardino (SC)	Winter	2012	336.74	387.17	459.96	582.29	73.40	84.04	99.85	125.63
C	San Bernardino (SC)	Winter	2013	337.81	388.73	461.09	584.42	73.45	84.04	99.95	125.87
C	San Bernardino (SC)	Winter	2014	337.97	389.22	461.03	585.02	73.48	84.04	100.03	126.12
C	San Bernardino (SC)	Winter	2015	339.97	391.82	463.49	588.82	73.53	84.10	100.12	126.38
C	San Bernardino (SC)	Winter	2016	340.15	392.25	463.46	589.40	73.60	84.17	100.22	126.63
C	San Bernardino (SC)	Winter	2017	340.28	392.65	463.44	589.94	73.64	84.24	100.30	126.88
C	San Bernardino (SC)	Winter	2018	340.39	392.99	463.42	590.42	73.67	84.33	100.37	127.12
C	San Bernardino (SC)	Winter	2019	338.74	391.31	461.01	587.80	73.72	84.50	100.45	127.34
C	San Bernardino (SC)	Winter	2020	338.84	391.63	461.00	588.19	73.81	84.69	100.54	127.55
C	San Bernardino (SC)	Winter	2021	341.07	394.40	463.95	592.23	73.89	84.86	100.63	127.71
C	San Bernardino (SC)	Winter	2022	341.11	394.63	463.94	592.47	73.94	85.01	100.70	127.85
C	San Bernardino (SC)	Winter	2023	341.12	394.81	463.92	592.65	73.97	85.15	100.75	128.01
C	San Bernardino (SC)	Winter	2024	345.19	399.71	469.47	599.90	73.99	85.27	100.80	128.14
C	San Bernardino (SC)	Winter	2025	345.19	399.85	469.45	600.04	74.01	85.37	100.84	128.28
C	San Bernardino (SC)	Winter	2026	345.21	400.00	469.43	600.18	74.03	85.48	100.87	128.40
C	San Bernardino (SC)	Winter	2027	345.22	400.14	469.42	600.31	74.05	85.57	100.90	128.51
C	San Bernardino (SC)	Winter	2028	345.22	400.28	469.40	600.45	74.06	85.66	100.92	128.61
C	San Bernardino (SC)	Winter	2029	345.22	400.43	469.39	600.58	74.06	85.74	100.93	128.70
C	San Bernardino (SC)	Winter	2030	345.22	400.57	469.37	600.71	74.07	85.81	100.94	128.79
C	San Bernardino (SC)	Winter	2031	346.90	402.69	471.67	603.81	74.07	85.89	100.95	128.88
C	San Bernardino (SC)	Winter	2032	346.90	402.83	471.66	603.96	74.08	85.96	100.96	128.96
C	San Bernardino (SC)	Winter	2033	346.90	402.96	471.65	604.10	74.08	86.02	100.97	129.03
C	San Bernardino (SC)	Winter	2034	346.90	403.07	471.65	604.22	74.08	86.08	100.97	129.10
C	San Bernardino (SC)	Winter	2035	346.89	403.16	471.64	604.33	74.09	86.13	100.98	129.17
C	San Diego (SD)	Annual	2010	352.52	405.15	482.46	610.22	72.99	83.92	99.34	125.27
C	San Diego (SD)	Annual	2011	353.81	407.05	483.85	612.57	73.01	83.88	99.44	125.44
C	San Diego (SD)	Annual	2012	354.03	407.67	483.80	613.09	73.05	83.89	99.57	125.64
C	San Diego (SD)	Annual	2013	354.28	408.23	483.77	613.65	73.12	83.94	99.70	125.85
C	San Diego (SD)	Annual	2014	354.50	408.76	483.75	614.21	73.17	83.99	99.82	126.06
C	San Diego (SD)	Annual	2015	354.72	409.25	483.74	614.79	73.24	84.07	99.93	126.29
C	San Diego (SD)	Annual	2016	354.92	409.69	483.74	615.32	73.32	84.16	100.05	126.52
C	San Diego (SD)	Annual	2017	355.08	410.10	483.73	615.84	73.37	84.25	100.15	126.74
C	San Diego (SD)	Annual	2018	355.21	410.47	483.74	616.29	73.41	84.35	100.25	126.96
C	San Diego (SD)	Annual	2019	355.33	410.82	483.74	616.69	73.46	84.52	100.35	127.15
C	San Diego (SD)	Annual	2020	355.43	411.15	483.75	617.07	73.55	84.69	100.45	127.34
C	San Diego (SD)	Annual	2021	356.07	412.11	484.56	618.41	73.62	84.87	100.55	127.52
C	San Diego (SD)	Annual	2022	356.11	412.36	484.56	618.69	73.67	85.02	100.63	127.67
C	San Diego (SD)	Annual	2023	356.12	412.55	484.56	618.89	73.71	85.15	100.70	127.83
C	San Diego (SD)	Annual	2024	356.12	412.71	484.55	619.06	73.72	85.27	100.76	127.98
C	San Diego (SD)	Annual	2025	356.11	412.86	484.55	619.23	73.74	85.38	100.81	128.12
C	San Diego (SD)	Annual	2026	356.13	413.01	484.54	619.39	73.76	85.48	100.85	128.26
C	San Diego (SD)	Annual	2027	356.14	413.16	484.53	619.54	73.77	85.57	100.88	128.38
C	San Diego (SD)	Annual	2028	356.15	413.30	484.51	619.69	73.78	85.66	100.90	128.48
C	San Diego (SD)	Annual	2029	356.15	413.45	484.50	619.84	73.79	85.74	100.92	128.58
C	San Diego (SD)	Annual	2030	356.14	413.59	484.49	619.98	73.79	85.81	100.93	128.68
C	San Diego (SD)	Annual	2031	356.14	413.74	484.48	620.13	73.80	85.89	100.94	128.77
C	San Diego (SD)	Annual	2032	356.14	413.87	484.48	620.29	73.80	85.96	100.95	128.86
C	San Diego (SD)	Annual	2033	356.14	414.00	484.47	620.43	73.80	86.02	100.96	128.93

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	San Diego (SD)	Annual	2034	356.13	414.10	484.46	620.55	73.80	86.08	100.97	129.01
C	San Diego (SD)	Annual	2035	356.13	414.20	484.46	620.67	73.81	86.13	100.97	129.08
C	San Diego (SD)	Summer	2010	372.46	426.19	509.00	643.64	72.99	83.92	99.34	125.27
C	San Diego (SD)	Summer	2011	373.89	428.41	510.48	645.96	73.01	83.88	99.44	125.44
C	San Diego (SD)	Summer	2012	374.19	429.26	510.46	646.43	73.05	83.89	99.57	125.64
C	San Diego (SD)	Summer	2013	374.48	430.00	510.47	646.99	73.12	83.94	99.70	125.85
C	San Diego (SD)	Summer	2014	374.75	430.67	510.51	647.60	73.17	83.99	99.82	126.06
C	San Diego (SD)	Summer	2015	375.00	431.27	510.56	648.26	73.24	84.07	99.93	126.29
C	San Diego (SD)	Summer	2016	375.24	431.81	510.61	648.90	73.32	84.16	100.05	126.52
C	San Diego (SD)	Summer	2017	375.42	432.30	510.65	649.52	73.37	84.25	100.15	126.74
C	San Diego (SD)	Summer	2018	375.55	432.74	510.67	650.05	73.41	84.35	100.25	126.96
C	San Diego (SD)	Summer	2019	375.68	433.15	510.68	650.53	73.46	84.52	100.35	127.15
C	San Diego (SD)	Summer	2020	375.78	433.52	510.68	650.97	73.55	84.69	100.45	127.34
C	San Diego (SD)	Summer	2021	376.47	434.60	511.57	652.47	73.62	84.87	100.55	127.52
C	San Diego (SD)	Summer	2022	376.52	434.90	511.57	652.82	73.67	85.02	100.63	127.67
C	San Diego (SD)	Summer	2023	376.54	435.14	511.57	653.07	73.71	85.15	100.70	127.83
C	San Diego (SD)	Summer	2024	376.54	435.34	511.56	653.27	73.72	85.27	100.76	127.98
C	San Diego (SD)	Summer	2025	376.54	435.52	511.56	653.45	73.74	85.38	100.81	128.12
C	San Diego (SD)	Summer	2026	376.55	435.72	511.54	653.62	73.76	85.48	100.85	128.26
C	San Diego (SD)	Summer	2027	376.56	435.90	511.53	653.77	73.77	85.57	100.88	128.38
C	San Diego (SD)	Summer	2028	376.57	436.07	511.51	653.92	73.78	85.66	100.90	128.48
C	San Diego (SD)	Summer	2029	376.58	436.25	511.49	654.06	73.79	85.74	100.92	128.58
C	San Diego (SD)	Summer	2030	376.58	436.43	511.48	654.21	73.79	85.81	100.93	128.68
C	San Diego (SD)	Summer	2031	376.57	436.61	511.47	654.35	73.80	85.89	100.94	128.77
C	San Diego (SD)	Summer	2032	376.57	436.77	511.46	654.51	73.80	85.96	100.95	128.86
C	San Diego (SD)	Summer	2033	376.57	436.92	511.45	654.65	73.80	86.02	100.96	128.93
C	San Diego (SD)	Summer	2034	376.57	437.04	511.45	654.79	73.80	86.08	100.97	129.01
C	San Diego (SD)	Summer	2035	376.57	437.14	511.44	654.92	73.81	86.13	100.97	129.08
C	San Diego (SD)	Winter	2010	348.91	401.34	477.65	604.17	72.99	83.92	99.34	125.27
C	San Diego (SD)	Winter	2011	350.18	403.18	479.04	606.53	73.01	83.88	99.44	125.44
C	San Diego (SD)	Winter	2012	350.39	403.76	478.98	607.06	73.05	83.89	99.57	125.64
C	San Diego (SD)	Winter	2013	350.62	404.30	478.94	607.62	73.12	83.94	99.70	125.85
C	San Diego (SD)	Winter	2014	350.83	404.79	478.91	608.17	73.17	83.99	99.82	126.06
C	San Diego (SD)	Winter	2015	351.05	405.26	478.89	608.73	73.24	84.07	99.93	126.29
C	San Diego (SD)	Winter	2016	351.25	405.69	478.88	609.25	73.32	84.16	100.05	126.52
C	San Diego (SD)	Winter	2017	351.40	406.08	478.87	609.75	73.37	84.25	100.15	126.74
C	San Diego (SD)	Winter	2018	351.53	406.44	478.86	610.18	73.41	84.35	100.25	126.96
C	San Diego (SD)	Winter	2019	351.65	406.78	478.87	610.57	73.46	84.52	100.35	127.15
C	San Diego (SD)	Winter	2020	351.75	407.10	478.87	610.94	73.55	84.69	100.45	127.34
C	San Diego (SD)	Winter	2021	352.38	408.04	479.67	612.25	73.62	84.87	100.55	127.52
C	San Diego (SD)	Winter	2022	352.42	408.28	479.67	612.51	73.67	85.02	100.63	127.67
C	San Diego (SD)	Winter	2023	352.43	408.47	479.67	612.71	73.71	85.15	100.70	127.83
C	San Diego (SD)	Winter	2024	352.42	408.62	479.66	612.87	73.72	85.27	100.76	127.98
C	San Diego (SD)	Winter	2025	352.42	408.75	479.66	613.03	73.74	85.38	100.81	128.12
C	San Diego (SD)	Winter	2026	352.43	408.90	479.65	613.20	73.76	85.48	100.85	128.26
C	San Diego (SD)	Winter	2027	352.44	409.04	479.64	613.35	73.77	85.57	100.88	128.38
C	San Diego (SD)	Winter	2028	352.45	409.18	479.63	613.50	73.78	85.66	100.90	128.48
C	San Diego (SD)	Winter	2029	352.45	409.32	479.62	613.64	73.79	85.74	100.92	128.58
C	San Diego (SD)	Winter	2030	352.45	409.46	479.60	613.79	73.79	85.81	100.93	128.68
C	San Diego (SD)	Winter	2031	352.44	409.60	479.60	613.94	73.80	85.89	100.94	128.77
C	San Diego (SD)	Winter	2032	352.44	409.73	479.59	614.10	73.80	85.96	100.95	128.86
C	San Diego (SD)	Winter	2033	352.44	409.85	479.59	614.23	73.80	86.02	100.96	128.93
C	San Diego (SD)	Winter	2034	352.44	409.95	479.58	614.36	73.80	86.08	100.97	129.01
C	San Diego (SD)	Winter	2035	352.43	410.04	479.57	614.47	73.81	86.13	100.97	129.08

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	San Francisco (SF)	Annual	2010	371.60	426.62	509.35	643.69	72.64	83.27	99.11	125.09
C	San Francisco (SF)	Annual	2011	371.82	427.18	509.24	644.17	72.74	83.30	99.23	125.27
C	San Francisco (SF)	Annual	2012	372.04	427.76	509.17	644.70	72.83	83.38	99.38	125.47
C	San Francisco (SF)	Annual	2013	372.29	428.30	509.11	645.27	72.93	83.46	99.53	125.68
C	San Francisco (SF)	Annual	2014	372.52	428.84	509.06	645.84	73.02	83.59	99.67	125.91
C	San Francisco (SF)	Annual	2015	372.76	429.37	509.04	646.43	73.13	83.72	99.83	126.14
C	San Francisco (SF)	Annual	2016	372.99	429.87	509.03	646.98	73.24	83.88	99.96	126.36
C	San Francisco (SF)	Annual	2017	373.17	430.33	509.01	647.52	73.31	84.02	100.10	126.59
C	San Francisco (SF)	Annual	2018	373.32	430.73	509.01	647.97	73.38	84.17	100.21	126.81
C	San Francisco (SF)	Annual	2019	373.44	431.08	509.02	648.39	73.44	84.32	100.32	127.01
C	San Francisco (SF)	Annual	2020	373.57	431.40	509.03	648.77	73.54	84.48	100.42	127.20
C	San Francisco (SF)	Annual	2021	373.65	431.70	509.03	649.09	73.62	84.65	100.52	127.37
C	San Francisco (SF)	Annual	2022	373.71	431.95	509.04	649.36	73.68	84.79	100.60	127.51
C	San Francisco (SF)	Annual	2023	373.73	432.14	509.03	649.57	73.72	84.92	100.67	127.66
C	San Francisco (SF)	Annual	2024	373.72	432.29	509.03	649.73	73.74	85.03	100.73	127.80
C	San Francisco (SF)	Annual	2025	373.72	432.42	509.02	649.90	73.77	85.13	100.78	127.94
C	San Francisco (SF)	Annual	2026	373.74	432.57	509.01	650.08	73.79	85.23	100.82	128.07
C	San Francisco (SF)	Annual	2027	373.76	432.71	509.00	650.24	73.81	85.31	100.85	128.19
C	San Francisco (SF)	Annual	2028	373.76	432.86	508.98	650.41	73.82	85.39	100.88	128.29
C	San Francisco (SF)	Annual	2029	373.76	433.01	508.96	650.58	73.83	85.47	100.89	128.39
C	San Francisco (SF)	Annual	2030	373.75	433.17	508.95	650.75	73.83	85.54	100.91	128.49
C	San Francisco (SF)	Annual	2031	373.75	433.33	508.94	650.93	73.84	85.62	100.92	128.59
C	San Francisco (SF)	Annual	2032	373.75	433.50	508.93	651.11	73.84	85.69	100.93	128.68
C	San Francisco (SF)	Annual	2033	373.75	433.64	508.92	651.27	73.85	85.75	100.94	128.76
C	San Francisco (SF)	Annual	2034	373.74	433.77	508.91	651.42	73.85	85.81	100.94	128.84
C	San Francisco (SF)	Annual	2035	373.74	433.88	508.90	651.56	73.85	85.87	100.95	128.91
C	San Francisco (SF)	Summer	2010	395.05	451.58	540.63	683.09	72.64	83.27	99.11	125.09
C	San Francisco (SF)	Summer	2011	395.38	452.34	540.53	683.40	72.74	83.30	99.23	125.27
C	San Francisco (SF)	Summer	2012	395.71	453.09	540.48	683.83	72.83	83.38	99.38	125.47
C	San Francisco (SF)	Summer	2013	396.03	453.80	540.46	684.36	72.93	83.46	99.53	125.68
C	San Francisco (SF)	Summer	2014	396.33	454.46	540.48	684.94	73.02	83.59	99.67	125.91
C	San Francisco (SF)	Summer	2015	396.62	455.11	540.51	685.61	73.13	83.72	99.83	126.14
C	San Francisco (SF)	Summer	2016	396.88	455.72	540.56	686.28	73.24	83.88	99.96	126.36
C	San Francisco (SF)	Summer	2017	397.07	456.29	540.60	686.95	73.31	84.02	100.10	126.59
C	San Francisco (SF)	Summer	2018	397.24	456.76	540.61	687.49	73.38	84.17	100.21	126.81
C	San Francisco (SF)	Summer	2019	397.37	457.20	540.63	688.00	73.44	84.32	100.32	127.01
C	San Francisco (SF)	Summer	2020	397.50	457.58	540.65	688.47	73.54	84.48	100.42	127.20
C	San Francisco (SF)	Summer	2021	397.58	457.93	540.66	688.86	73.62	84.65	100.52	127.37
C	San Francisco (SF)	Summer	2022	397.64	458.23	540.66	689.20	73.68	84.79	100.60	127.51
C	San Francisco (SF)	Summer	2023	397.66	458.47	540.66	689.46	73.72	84.92	100.67	127.66
C	San Francisco (SF)	Summer	2024	397.65	458.66	540.64	689.67	73.74	85.03	100.73	127.80
C	San Francisco (SF)	Summer	2025	397.65	458.84	540.63	689.88	73.77	85.13	100.78	127.94
C	San Francisco (SF)	Summer	2026	397.67	459.02	540.61	690.09	73.79	85.23	100.82	128.07
C	San Francisco (SF)	Summer	2027	397.69	459.20	540.59	690.26	73.81	85.31	100.85	128.19
C	San Francisco (SF)	Summer	2028	397.70	459.38	540.57	690.44	73.82	85.39	100.88	128.29
C	San Francisco (SF)	Summer	2029	397.70	459.57	540.54	690.62	73.83	85.47	100.89	128.39
C	San Francisco (SF)	Summer	2030	397.70	459.77	540.53	690.81	73.83	85.54	100.91	128.49
C	San Francisco (SF)	Summer	2031	397.70	459.99	540.52	690.99	73.84	85.62	100.92	128.59
C	San Francisco (SF)	Summer	2032	397.71	460.19	540.51	691.17	73.84	85.69	100.93	128.68
C	San Francisco (SF)	Summer	2033	397.71	460.36	540.50	691.35	73.85	85.75	100.94	128.76
C	San Francisco (SF)	Summer	2034	397.71	460.52	540.50	691.51	73.85	85.81	100.94	128.84
C	San Francisco (SF)	Summer	2035	397.70	460.65	540.49	691.66	73.85	85.87	100.95	128.91
C	San Francisco (SF)	Winter	2010	370.78	425.74	508.25	642.31	72.64	83.27	99.11	125.09
C	San Francisco (SF)	Winter	2011	370.99	426.30	508.14	642.79	72.74	83.30	99.23	125.27

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	San Francisco (SF)	Winter	2012	371.21	426.87	508.07	643.32	72.83	83.38	99.38	125.47
C	San Francisco (SF)	Winter	2013	371.46	427.41	508.01	643.90	72.93	83.46	99.53	125.68
C	San Francisco (SF)	Winter	2014	371.69	427.94	507.96	644.46	73.02	83.59	99.67	125.91
C	San Francisco (SF)	Winter	2015	371.93	428.46	507.94	645.05	73.13	83.72	99.83	126.14
C	San Francisco (SF)	Winter	2016	372.16	428.96	507.92	645.60	73.24	83.88	99.96	126.36
C	San Francisco (SF)	Winter	2017	372.33	429.42	507.91	646.13	73.31	84.02	100.10	126.59
C	San Francisco (SF)	Winter	2018	372.48	429.81	507.90	646.58	73.38	84.17	100.21	126.81
C	San Francisco (SF)	Winter	2019	372.60	430.17	507.91	647.00	73.44	84.32	100.32	127.01
C	San Francisco (SF)	Winter	2020	372.73	430.49	507.92	647.38	73.54	84.48	100.42	127.20
C	San Francisco (SF)	Winter	2021	372.81	430.78	507.92	647.69	73.62	84.65	100.52	127.37
C	San Francisco (SF)	Winter	2022	372.87	431.02	507.93	647.96	73.68	84.79	100.60	127.51
C	San Francisco (SF)	Winter	2023	372.89	431.21	507.92	648.17	73.72	84.92	100.67	127.66
C	San Francisco (SF)	Winter	2024	372.88	431.36	507.92	648.33	73.74	85.03	100.73	127.80
C	San Francisco (SF)	Winter	2025	372.88	431.50	507.91	648.50	73.77	85.13	100.78	127.94
C	San Francisco (SF)	Winter	2026	372.90	431.64	507.90	648.67	73.79	85.23	100.82	128.07
C	San Francisco (SF)	Winter	2027	372.92	431.78	507.89	648.84	73.81	85.31	100.85	128.19
C	San Francisco (SF)	Winter	2028	372.92	431.93	507.87	649.00	73.82	85.39	100.88	128.29
C	San Francisco (SF)	Winter	2029	372.92	432.08	507.85	649.17	73.83	85.47	100.89	128.39
C	San Francisco (SF)	Winter	2030	372.91	432.23	507.84	649.34	73.83	85.54	100.91	128.49
C	San Francisco (SF)	Winter	2031	372.91	432.40	507.83	649.52	73.84	85.62	100.92	128.59
C	San Francisco (SF)	Winter	2032	372.91	432.56	507.82	649.71	73.84	85.69	100.93	128.68
C	San Francisco (SF)	Winter	2033	372.91	432.70	507.81	649.87	73.85	85.75	100.94	128.76
C	San Francisco (SF)	Winter	2034	372.90	432.83	507.81	650.02	73.85	85.81	100.94	128.84
C	San Francisco (SF)	Winter	2035	372.90	432.95	507.80	650.15	73.85	85.87	100.95	128.91
C	San Joaquin (SJV)	Annual	2010	341.15	391.09	467.02	587.28	73.38	84.95	100.04	124.39
C	San Joaquin (SJV)	Annual	2011	341.42	391.91	466.87	587.92	73.37	84.69	100.05	124.61
C	San Joaquin (SJV)	Annual	2012	340.62	391.44	465.29	586.82	73.40	84.55	100.10	124.86
C	San Joaquin (SJV)	Annual	2013	340.63	391.84	464.86	587.24	73.41	84.46	100.15	125.16
C	San Joaquin (SJV)	Annual	2014	340.87	392.44	464.82	588.06	73.44	84.41	100.20	125.45
C	San Joaquin (SJV)	Annual	2015	342.48	394.54	466.66	591.27	73.49	84.37	100.25	125.76
C	San Joaquin (SJV)	Annual	2016	342.68	395.00	466.64	592.05	73.55	84.37	100.31	126.07
C	San Joaquin (SJV)	Annual	2017	342.83	395.40	466.61	592.77	73.57	84.38	100.33	126.38
C	San Joaquin (SJV)	Annual	2018	341.73	394.34	464.95	591.28	73.61	84.41	100.38	126.66
C	San Joaquin (SJV)	Annual	2019	341.83	394.66	464.93	591.82	73.66	84.55	100.43	126.92
C	San Joaquin (SJV)	Annual	2020	341.92	394.95	464.91	592.29	73.75	84.71	100.52	127.16
C	San Joaquin (SJV)	Annual	2021	340.58	393.59	462.99	590.24	73.83	84.88	100.61	127.36
C	San Joaquin (SJV)	Annual	2022	340.62	393.80	462.97	590.55	73.88	85.03	100.68	127.52
C	San Joaquin (SJV)	Annual	2023	340.62	393.98	462.95	590.80	73.91	85.16	100.74	127.71
C	San Joaquin (SJV)	Annual	2024	338.98	392.24	460.72	588.16	73.93	85.27	100.79	127.88
C	San Joaquin (SJV)	Annual	2025	338.99	392.38	460.71	588.34	73.95	85.37	100.83	128.04
C	San Joaquin (SJV)	Annual	2026	338.96	392.48	460.64	588.42	73.97	85.47	100.87	128.18
C	San Joaquin (SJV)	Annual	2027	338.97	392.63	460.62	588.56	73.99	85.56	100.89	128.30
C	San Joaquin (SJV)	Annual	2028	338.98	392.77	460.61	588.70	74.00	85.65	100.91	128.42
C	San Joaquin (SJV)	Annual	2029	338.98	392.91	460.59	588.85	74.00	85.73	100.93	128.53
C	San Joaquin (SJV)	Annual	2030	338.98	393.05	460.58	589.01	74.01	85.80	100.94	128.63
C	San Joaquin (SJV)	Annual	2031	338.98	393.19	460.57	589.19	74.01	85.88	100.95	128.73
C	San Joaquin (SJV)	Annual	2032	338.98	393.31	460.56	589.38	74.02	85.94	100.95	128.83
C	San Joaquin (SJV)	Annual	2033	338.98	393.42	460.55	589.55	74.02	86.00	100.96	128.92
C	San Joaquin (SJV)	Annual	2034	338.98	393.52	460.54	589.70	74.03	86.06	100.97	129.00
C	San Joaquin (SJV)	Annual	2035	338.97	393.60	460.53	589.84	74.03	86.10	100.97	129.07
C	San Joaquin (SJV)	Summer	2010	372.14	422.80	507.85	638.60	73.38	84.95	100.04	124.39
C	San Joaquin (SJV)	Summer	2011	372.63	424.33	507.90	639.20	73.37	84.69	100.05	124.61
C	San Joaquin (SJV)	Summer	2012	371.92	424.32	506.38	638.02	73.40	84.55	100.10	124.86
C	San Joaquin (SJV)	Summer	2013	372.06	425.18	506.12	638.59	73.41	84.46	100.15	125.16

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	San Joaquin (SJV)	Summer	2014	372.42	426.15	506.26	639.64	73.44	84.41	100.20	125.45
C	San Joaquin (SJV)	Summer	2015	374.24	428.69	508.43	643.31	73.49	84.37	100.25	125.76
C	San Joaquin (SJV)	Summer	2016	374.50	429.38	508.53	644.34	73.55	84.37	100.31	126.07
C	San Joaquin (SJV)	Summer	2017	374.68	429.96	508.59	645.29	73.57	84.38	100.33	126.38
C	San Joaquin (SJV)	Summer	2018	373.47	428.89	506.81	643.78	73.61	84.41	100.38	126.66
C	San Joaquin (SJV)	Summer	2019	373.56	429.29	506.79	644.44	73.66	84.55	100.43	126.92
C	San Joaquin (SJV)	Summer	2020	373.63	429.66	506.76	645.01	73.75	84.71	100.52	127.16
C	San Joaquin (SJV)	Summer	2021	372.14	428.21	504.64	642.81	73.83	84.88	100.61	127.36
C	San Joaquin (SJV)	Summer	2022	372.16	428.49	504.59	643.19	73.88	85.03	100.68	127.52
C	San Joaquin (SJV)	Summer	2023	372.17	428.73	504.55	643.46	73.91	85.16	100.74	127.71
C	San Joaquin (SJV)	Summer	2024	370.38	426.89	502.11	640.59	73.93	85.27	100.79	127.88
C	San Joaquin (SJV)	Summer	2025	370.39	427.09	502.08	640.78	73.95	85.37	100.83	128.04
C	San Joaquin (SJV)	Summer	2026	370.34	427.23	501.98	640.76	73.97	85.47	100.87	128.18
C	San Joaquin (SJV)	Summer	2027	370.36	427.43	501.95	640.85	73.99	85.56	100.89	128.30
C	San Joaquin (SJV)	Summer	2028	370.37	427.63	501.94	640.96	74.00	85.65	100.91	128.42
C	San Joaquin (SJV)	Summer	2029	370.39	427.83	501.92	641.09	74.00	85.73	100.93	128.53
C	San Joaquin (SJV)	Summer	2030	370.40	428.04	501.92	641.25	74.01	85.80	100.94	128.63
C	San Joaquin (SJV)	Summer	2031	370.39	428.23	501.91	641.47	74.01	85.88	100.95	128.73
C	San Joaquin (SJV)	Summer	2032	370.39	428.39	501.90	641.69	74.02	85.94	100.95	128.83
C	San Joaquin (SJV)	Summer	2033	370.39	428.53	501.89	641.91	74.02	86.00	100.96	128.92
C	San Joaquin (SJV)	Summer	2034	370.38	428.65	501.89	642.11	74.03	86.06	100.97	129.00
C	San Joaquin (SJV)	Summer	2035	370.38	428.74	501.89	642.30	74.03	86.10	100.97	129.07
C	San Joaquin (SJV)	Winter	2010	331.39	381.10	454.15	571.11	73.38	84.95	100.04	124.39
C	San Joaquin (SJV)	Winter	2011	331.58	381.70	453.94	571.76	73.37	84.69	100.05	124.61
C	San Joaquin (SJV)	Winter	2012	330.76	381.08	452.34	570.69	73.40	84.55	100.10	124.86
C	San Joaquin (SJV)	Winter	2013	330.73	381.33	451.86	571.05	73.41	84.46	100.15	125.16
C	San Joaquin (SJV)	Winter	2014	330.93	381.81	451.76	571.81	73.44	84.41	100.20	125.45
C	San Joaquin (SJV)	Winter	2015	332.47	383.78	453.50	574.87	73.49	84.37	100.25	125.76
C	San Joaquin (SJV)	Winter	2016	332.66	384.17	453.44	575.57	73.55	84.37	100.31	126.07
C	San Joaquin (SJV)	Winter	2017	332.79	384.52	453.39	576.22	73.57	84.38	100.33	126.38
C	San Joaquin (SJV)	Winter	2018	331.73	383.45	451.75	574.74	73.61	84.41	100.38	126.66
C	San Joaquin (SJV)	Winter	2019	331.83	383.74	451.73	575.23	73.66	84.55	100.43	126.92
C	San Joaquin (SJV)	Winter	2020	331.93	384.01	451.72	575.67	73.75	84.71	100.52	127.16
C	San Joaquin (SJV)	Winter	2021	330.64	382.68	449.87	573.67	73.83	84.88	100.61	127.36
C	San Joaquin (SJV)	Winter	2022	330.67	382.87	449.86	573.97	73.88	85.03	100.68	127.52
C	San Joaquin (SJV)	Winter	2023	330.68	383.03	449.84	574.20	73.91	85.16	100.74	127.71
C	San Joaquin (SJV)	Winter	2024	329.09	381.32	447.68	571.64	73.93	85.27	100.79	127.88
C	San Joaquin (SJV)	Winter	2025	329.10	381.44	447.67	571.82	73.95	85.37	100.83	128.04
C	San Joaquin (SJV)	Winter	2026	329.07	381.53	447.62	571.92	73.97	85.47	100.87	128.18
C	San Joaquin (SJV)	Winter	2027	329.08	381.66	447.60	572.08	73.99	85.56	100.89	128.30
C	San Joaquin (SJV)	Winter	2028	329.09	381.79	447.58	572.23	74.00	85.65	100.91	128.42
C	San Joaquin (SJV)	Winter	2029	329.09	381.91	447.56	572.39	74.00	85.73	100.93	128.53
C	San Joaquin (SJV)	Winter	2030	329.08	382.03	447.55	572.55	74.01	85.80	100.94	128.63
C	San Joaquin (SJV)	Winter	2031	329.08	382.15	447.54	572.72	74.01	85.88	100.95	128.73
C	San Joaquin (SJV)	Winter	2032	329.08	382.26	447.53	572.89	74.02	85.94	100.95	128.83
C	San Joaquin (SJV)	Winter	2033	329.08	382.36	447.52	573.05	74.02	86.00	100.96	128.92
C	San Joaquin (SJV)	Winter	2034	329.08	382.45	447.51	573.19	74.03	86.06	100.97	129.00
C	San Joaquin (SJV)	Winter	2035	329.08	382.52	447.50	573.31	74.03	86.10	100.97	129.07
C	San Luis Obispo (SCC)	Annual	2010	323.71	378.06	444.34	556.25	73.66	90.73	100.02	124.73
C	San Luis Obispo (SCC)	Annual	2011	323.66	377.48	443.78	556.86	73.53	89.58	100.04	124.90
C	San Luis Obispo (SCC)	Annual	2012	323.65	377.05	443.34	557.51	73.41	88.66	100.08	125.11
C	San Luis Obispo (SCC)	Annual	2013	323.72	376.63	442.99	558.19	73.36	87.82	100.14	125.34
C	San Luis Obispo (SCC)	Annual	2014	323.79	376.32	442.72	558.85	73.31	87.15	100.20	125.58
C	San Luis Obispo (SCC)	Annual	2015	323.89	376.00	442.50	559.54	73.31	86.48	100.25	125.85

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	San Luis Obispo (SCC)	Annual	2016	323.99	375.75	442.33	560.18	73.31	85.95	100.33	126.11
C	San Luis Obispo (SCC)	Annual	2017	324.07	375.53	442.19	560.79	73.31	85.47	100.39	126.38
C	San Luis Obispo (SCC)	Annual	2018	324.12	375.39	442.08	561.33	73.30	85.15	100.47	126.64
C	San Luis Obispo (SCC)	Annual	2019	324.17	375.38	441.99	561.79	73.31	85.03	100.54	126.87
C	San Luis Obispo (SCC)	Annual	2020	324.24	375.40	441.92	562.20	73.40	85.04	100.62	127.10
C	San Luis Obispo (SCC)	Annual	2021	324.29	375.51	441.85	562.51	73.47	85.15	100.70	127.27
C	San Luis Obispo (SCC)	Annual	2022	324.32	375.62	441.79	562.77	73.52	85.25	100.76	127.41
C	San Luis Obispo (SCC)	Annual	2023	324.30	375.69	441.73	562.97	73.56	85.34	100.82	127.59
C	San Luis Obispo (SCC)	Annual	2024	324.27	375.76	441.66	563.12	73.57	85.42	100.86	127.74
C	San Luis Obispo (SCC)	Annual	2025	324.25	375.82	441.61	563.29	73.59	85.49	100.89	127.90
C	San Luis Obispo (SCC)	Annual	2026	324.27	375.91	441.54	563.46	73.61	85.57	100.92	128.06
C	San Luis Obispo (SCC)	Annual	2027	324.28	375.99	441.47	563.63	73.63	85.63	100.94	128.19
C	San Luis Obispo (SCC)	Annual	2028	324.28	376.07	441.40	563.80	73.64	85.68	100.95	128.31
C	San Luis Obispo (SCC)	Annual	2029	324.27	376.16	441.32	563.96	73.64	85.74	100.95	128.43
C	San Luis Obispo (SCC)	Annual	2030	324.26	376.24	441.24	564.13	73.65	85.79	100.95	128.54
C	San Luis Obispo (SCC)	Annual	2031	324.26	376.33	441.20	564.31	73.65	85.84	100.96	128.65
C	San Luis Obispo (SCC)	Annual	2032	324.26	376.41	441.16	564.49	73.66	85.88	100.96	128.75
C	San Luis Obispo (SCC)	Annual	2033	324.25	376.48	441.13	564.65	73.66	85.92	100.97	128.84
C	San Luis Obispo (SCC)	Annual	2034	324.25	376.54	441.10	564.79	73.67	85.96	100.97	128.93
C	San Luis Obispo (SCC)	Annual	2035	324.24	376.60	441.08	564.92	73.67	86.00	100.97	129.01
C	San Luis Obispo (SCC)	Summer	2010	337.08	392.11	461.85	578.62	73.66	90.73	100.02	124.73
C	San Luis Obispo (SCC)	Summer	2011	337.15	391.73	461.44	579.22	73.53	89.58	100.04	124.90
C	San Luis Obispo (SCC)	Summer	2012	337.23	391.46	461.13	579.91	73.41	88.66	100.08	125.11
C	San Luis Obispo (SCC)	Summer	2013	337.36	391.21	460.89	580.65	73.36	87.82	100.14	125.34
C	San Luis Obispo (SCC)	Summer	2014	337.49	391.02	460.71	581.40	73.31	87.15	100.20	125.58
C	San Luis Obispo (SCC)	Summer	2015	337.63	390.82	460.57	582.19	73.31	86.48	100.25	125.85
C	San Luis Obispo (SCC)	Summer	2016	337.76	390.68	460.46	582.94	73.31	85.95	100.33	126.11
C	San Luis Obispo (SCC)	Summer	2017	337.85	390.56	460.36	583.64	73.31	85.47	100.39	126.38
C	San Luis Obispo (SCC)	Summer	2018	337.91	390.51	460.26	584.25	73.30	85.15	100.47	126.64
C	San Luis Obispo (SCC)	Summer	2019	337.96	390.55	460.18	584.77	73.31	85.03	100.54	126.87
C	San Luis Obispo (SCC)	Summer	2020	338.03	390.62	460.11	585.24	73.40	85.04	100.62	127.10
C	San Luis Obispo (SCC)	Summer	2021	338.07	390.76	460.04	585.58	73.47	85.15	100.70	127.27
C	San Luis Obispo (SCC)	Summer	2022	338.10	390.89	459.97	585.87	73.52	85.25	100.76	127.41
C	San Luis Obispo (SCC)	Summer	2023	338.08	390.99	459.91	586.10	73.56	85.34	100.82	127.59
C	San Luis Obispo (SCC)	Summer	2024	338.05	391.07	459.85	586.26	73.57	85.42	100.86	127.74
C	San Luis Obispo (SCC)	Summer	2025	338.04	391.16	459.80	586.42	73.59	85.49	100.89	127.90
C	San Luis Obispo (SCC)	Summer	2026	338.05	391.26	459.73	586.60	73.61	85.57	100.92	128.06
C	San Luis Obispo (SCC)	Summer	2027	338.07	391.36	459.67	586.77	73.63	85.63	100.94	128.19
C	San Luis Obispo (SCC)	Summer	2028	338.07	391.45	459.61	586.94	73.64	85.68	100.95	128.31
C	San Luis Obispo (SCC)	Summer	2029	338.07	391.55	459.54	587.11	73.64	85.74	100.95	128.43
C	San Luis Obispo (SCC)	Summer	2030	338.06	391.65	459.47	587.29	73.65	85.79	100.95	128.54
C	San Luis Obispo (SCC)	Summer	2031	338.06	391.75	459.44	587.47	73.65	85.84	100.96	128.65
C	San Luis Obispo (SCC)	Summer	2032	338.06	391.85	459.41	587.66	73.66	85.88	100.96	128.75
C	San Luis Obispo (SCC)	Summer	2033	338.06	391.93	459.38	587.84	73.66	85.92	100.97	128.84
C	San Luis Obispo (SCC)	Summer	2034	338.06	391.99	459.35	588.00	73.67	85.96	100.97	128.93
C	San Luis Obispo (SCC)	Summer	2035	338.05	392.05	459.33	588.14	73.67	86.00	100.97	129.01
C	San Luis Obispo (SCC)	Winter	2010	321.04	375.26	440.86	551.80	73.66	90.73	100.02	124.73
C	San Luis Obispo (SCC)	Winter	2011	320.97	374.65	440.26	552.41	73.53	89.58	100.04	124.90
C	San Luis Obispo (SCC)	Winter	2012	320.95	374.18	439.80	553.05	73.41	88.66	100.08	125.11
C	San Luis Obispo (SCC)	Winter	2013	321.01	373.73	439.43	553.72	73.36	87.82	100.14	125.34
C	San Luis Obispo (SCC)	Winter	2014	321.07	373.40	439.14	554.36	73.31	87.15	100.20	125.58
C	San Luis Obispo (SCC)	Winter	2015	321.16	373.05	438.90	555.03	73.31	86.48	100.25	125.85
C	San Luis Obispo (SCC)	Winter	2016	321.25	372.78	438.72	555.65	73.31	85.95	100.33	126.11
C	San Luis Obispo (SCC)	Winter	2017	321.32	372.53	438.57	556.25	73.31	85.47	100.39	126.38

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	San Luis Obispo (SCC)	Winter	2018	321.37	372.38	438.46	556.77	73.30	85.15	100.47	126.64
C	San Luis Obispo (SCC)	Winter	2019	321.42	372.35	438.37	557.21	73.31	85.03	100.54	126.87
C	San Luis Obispo (SCC)	Winter	2020	321.50	372.37	438.30	557.61	73.40	85.04	100.62	127.10
C	San Luis Obispo (SCC)	Winter	2021	321.55	372.47	438.23	557.91	73.47	85.15	100.70	127.27
C	San Luis Obispo (SCC)	Winter	2022	321.57	372.57	438.17	558.16	73.52	85.25	100.76	127.41
C	San Luis Obispo (SCC)	Winter	2023	321.56	372.64	438.10	558.37	73.56	85.34	100.82	127.59
C	San Luis Obispo (SCC)	Winter	2024	321.53	372.71	438.04	558.51	73.57	85.42	100.86	127.74
C	San Luis Obispo (SCC)	Winter	2025	321.51	372.77	437.99	558.68	73.59	85.49	100.89	127.90
C	San Luis Obispo (SCC)	Winter	2026	321.52	372.85	437.92	558.85	73.61	85.57	100.92	128.06
C	San Luis Obispo (SCC)	Winter	2027	321.53	372.93	437.84	559.02	73.63	85.63	100.94	128.19
C	San Luis Obispo (SCC)	Winter	2028	321.53	373.01	437.77	559.19	73.64	85.68	100.95	128.31
C	San Luis Obispo (SCC)	Winter	2029	321.52	373.09	437.69	559.35	73.64	85.74	100.95	128.43
C	San Luis Obispo (SCC)	Winter	2030	321.51	373.17	437.61	559.52	73.65	85.79	100.95	128.54
C	San Luis Obispo (SCC)	Winter	2031	321.51	373.25	437.57	559.69	73.65	85.84	100.96	128.65
C	San Luis Obispo (SCC)	Winter	2032	321.51	373.33	437.53	559.87	73.66	85.88	100.96	128.75
C	San Luis Obispo (SCC)	Winter	2033	321.50	373.40	437.50	560.03	73.66	85.92	100.97	128.84
C	San Luis Obispo (SCC)	Winter	2034	321.50	373.46	437.47	560.17	73.67	85.96	100.97	128.93
C	San Luis Obispo (SCC)	Winter	2035	321.49	373.52	437.45	560.29	73.67	86.00	100.97	129.01
C	San Mateo (SF)	Annual	2010	331.46	381.30	453.00	571.70	73.17	84.42	99.27	124.79
C	San Mateo (SF)	Annual	2011	331.52	381.54	452.87	572.19	73.20	84.32	99.39	124.99
C	San Mateo (SF)	Annual	2012	331.59	381.82	452.77	572.72	73.21	84.27	99.52	125.21
C	San Mateo (SF)	Annual	2013	331.72	382.13	452.69	573.27	73.27	84.28	99.65	125.45
C	San Mateo (SF)	Annual	2014	331.82	382.41	452.63	573.84	73.28	84.28	99.79	125.69
C	San Mateo (SF)	Annual	2015	331.97	382.71	452.60	574.41	73.35	84.33	99.92	125.94
C	San Mateo (SF)	Annual	2016	332.12	383.02	452.57	574.97	73.43	84.40	100.06	126.20
C	San Mateo (SF)	Annual	2017	332.23	383.29	452.55	575.50	73.47	84.45	100.17	126.46
C	San Mateo (SF)	Annual	2018	332.33	383.54	452.54	575.97	73.52	84.52	100.27	126.70
C	San Mateo (SF)	Annual	2019	332.44	383.81	452.54	576.38	73.58	84.64	100.37	126.93
C	San Mateo (SF)	Annual	2020	332.53	384.05	452.54	576.75	73.67	84.78	100.47	127.15
C	San Mateo (SF)	Annual	2021	332.60	384.28	452.54	577.07	73.74	84.93	100.56	127.33
C	San Mateo (SF)	Annual	2022	332.63	384.48	452.54	577.34	73.79	85.06	100.64	127.49
C	San Mateo (SF)	Annual	2023	332.64	384.63	452.53	577.54	73.83	85.17	100.70	127.66
C	San Mateo (SF)	Annual	2024	332.61	384.75	452.52	577.70	73.85	85.27	100.76	127.81
C	San Mateo (SF)	Annual	2025	332.60	384.86	452.51	577.87	73.87	85.37	100.81	127.96
C	San Mateo (SF)	Annual	2026	332.62	385.00	452.50	578.03	73.89	85.46	100.84	128.10
C	San Mateo (SF)	Annual	2027	332.63	385.15	452.48	578.19	73.90	85.54	100.87	128.23
C	San Mateo (SF)	Annual	2028	332.63	385.29	452.46	578.34	73.91	85.61	100.89	128.34
C	San Mateo (SF)	Annual	2029	332.63	385.44	452.44	578.49	73.92	85.69	100.91	128.45
C	San Mateo (SF)	Annual	2030	332.62	385.59	452.42	578.65	73.92	85.76	100.92	128.55
C	San Mateo (SF)	Annual	2031	332.61	385.75	452.41	578.81	73.93	85.83	100.93	128.65
C	San Mateo (SF)	Annual	2032	332.61	385.91	452.40	578.98	73.93	85.89	100.94	128.74
C	San Mateo (SF)	Annual	2033	332.61	386.05	452.38	579.13	73.93	85.95	100.95	128.83
C	San Mateo (SF)	Annual	2034	332.60	386.18	452.37	579.27	73.94	86.01	100.96	128.91
C	San Mateo (SF)	Annual	2035	332.60	386.30	452.36	579.39	73.94	86.06	100.96	128.99
C	San Mateo (SF)	Summer	2010	352.26	402.67	480.50	606.46	73.17	84.42	99.27	124.79
C	San Mateo (SF)	Summer	2011	352.41	403.17	480.38	606.84	73.20	84.32	99.39	124.99
C	San Mateo (SF)	Summer	2012	352.55	403.67	480.30	607.32	73.21	84.27	99.52	125.21
C	San Mateo (SF)	Summer	2013	352.74	404.17	480.27	607.88	73.27	84.28	99.65	125.45
C	San Mateo (SF)	Summer	2014	352.88	404.61	480.26	608.49	73.28	84.28	99.79	125.69
C	San Mateo (SF)	Summer	2015	353.05	405.04	480.27	609.14	73.35	84.33	99.92	125.94
C	San Mateo (SF)	Summer	2016	353.22	405.45	480.29	609.82	73.43	84.40	100.06	126.20
C	San Mateo (SF)	Summer	2017	353.34	405.84	480.32	610.47	73.47	84.45	100.17	126.46
C	San Mateo (SF)	Summer	2018	353.44	406.19	480.34	611.04	73.52	84.52	100.27	126.70
C	San Mateo (SF)	Summer	2019	353.55	406.55	480.36	611.53	73.58	84.64	100.37	126.93

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	San Mateo (SF)	Summer	2020	353.65	406.87	480.38	611.98	73.67	84.78	100.47	127.15
C	San Mateo (SF)	Summer	2021	353.72	407.17	480.38	612.36	73.74	84.93	100.56	127.33
C	San Mateo (SF)	Summer	2022	353.76	407.44	480.37	612.69	73.79	85.06	100.64	127.49
C	San Mateo (SF)	Summer	2023	353.77	407.65	480.36	612.93	73.83	85.17	100.70	127.66
C	San Mateo (SF)	Summer	2024	353.75	407.83	480.34	613.13	73.85	85.27	100.76	127.81
C	San Mateo (SF)	Summer	2025	353.74	408.00	480.32	613.31	73.87	85.37	100.81	127.96
C	San Mateo (SF)	Summer	2026	353.77	408.19	480.30	613.48	73.89	85.46	100.84	128.10
C	San Mateo (SF)	Summer	2027	353.78	408.39	480.28	613.64	73.90	85.54	100.87	128.23
C	San Mateo (SF)	Summer	2028	353.79	408.58	480.25	613.80	73.91	85.61	100.89	128.34
C	San Mateo (SF)	Summer	2029	353.79	408.79	480.23	613.96	73.92	85.69	100.91	128.45
C	San Mateo (SF)	Summer	2030	353.78	408.99	480.21	614.12	73.92	85.76	100.92	128.55
C	San Mateo (SF)	Summer	2031	353.78	409.21	480.20	614.29	73.93	85.83	100.93	128.65
C	San Mateo (SF)	Summer	2032	353.78	409.41	480.19	614.46	73.93	85.89	100.94	128.74
C	San Mateo (SF)	Summer	2033	353.78	409.59	480.19	614.63	73.93	85.95	100.95	128.83
C	San Mateo (SF)	Summer	2034	353.78	409.75	480.18	614.78	73.94	86.01	100.96	128.91
C	San Mateo (SF)	Summer	2035	353.77	409.88	480.17	614.93	73.94	86.06	100.96	128.99
C	San Mateo (SF)	Winter	2010	330.18	379.99	451.31	569.56	73.17	84.42	99.27	124.79
C	San Mateo (SF)	Winter	2011	330.23	380.21	451.18	570.06	73.20	84.32	99.39	124.99
C	San Mateo (SF)	Winter	2012	330.30	380.48	451.08	570.59	73.21	84.27	99.52	125.21
C	San Mateo (SF)	Winter	2013	330.43	380.78	451.00	571.15	73.27	84.28	99.65	125.45
C	San Mateo (SF)	Winter	2014	330.52	381.04	450.94	571.71	73.28	84.28	99.79	125.69
C	San Mateo (SF)	Winter	2015	330.67	381.34	450.90	572.28	73.35	84.33	99.92	125.94
C	San Mateo (SF)	Winter	2016	330.82	381.64	450.87	572.83	73.43	84.40	100.06	126.20
C	San Mateo (SF)	Winter	2017	330.94	381.91	450.84	573.35	73.47	84.45	100.17	126.46
C	San Mateo (SF)	Winter	2018	331.03	382.14	450.83	573.82	73.52	84.52	100.27	126.70
C	San Mateo (SF)	Winter	2019	331.14	382.41	450.83	574.22	73.58	84.64	100.37	126.93
C	San Mateo (SF)	Winter	2020	331.23	382.65	450.83	574.59	73.67	84.78	100.47	127.15
C	San Mateo (SF)	Winter	2021	331.30	382.88	450.83	574.90	73.74	84.93	100.56	127.33
C	San Mateo (SF)	Winter	2022	331.34	383.07	450.83	575.17	73.79	85.06	100.64	127.49
C	San Mateo (SF)	Winter	2023	331.34	383.21	450.82	575.36	73.83	85.17	100.70	127.66
C	San Mateo (SF)	Winter	2024	331.31	383.33	450.81	575.53	73.85	85.27	100.76	127.81
C	San Mateo (SF)	Winter	2025	331.30	383.44	450.81	575.69	73.87	85.37	100.81	127.96
C	San Mateo (SF)	Winter	2026	331.32	383.58	450.79	575.85	73.89	85.46	100.84	128.10
C	San Mateo (SF)	Winter	2027	331.33	383.72	450.77	576.01	73.90	85.54	100.87	128.23
C	San Mateo (SF)	Winter	2028	331.33	383.86	450.75	576.16	73.91	85.61	100.89	128.34
C	San Mateo (SF)	Winter	2029	331.33	384.00	450.73	576.31	73.92	85.69	100.91	128.45
C	San Mateo (SF)	Winter	2030	331.31	384.15	450.71	576.47	73.92	85.76	100.92	128.55
C	San Mateo (SF)	Winter	2031	331.31	384.31	450.70	576.63	73.93	85.83	100.93	128.65
C	San Mateo (SF)	Winter	2032	331.31	384.47	450.69	576.80	73.93	85.89	100.94	128.74
C	San Mateo (SF)	Winter	2033	331.31	384.61	450.67	576.95	73.93	85.95	100.95	128.83
C	San Mateo (SF)	Winter	2034	331.30	384.74	450.66	577.09	73.94	86.01	100.96	128.91
C	San Mateo (SF)	Winter	2035	331.30	384.85	450.65	577.21	73.94	86.06	100.96	128.99
C	Santa Barbara-North of Santa Ynez	Annual	2010	310.84	363.09	427.75	535.11	73.30	88.99	99.96	124.67
C	Santa Barbara-North of Santa Ynez	Annual	2011	310.88	362.63	427.11	535.68	73.27	88.16	99.98	124.88
C	Santa Barbara-North of Santa Ynez	Annual	2012	310.95	362.25	426.61	536.31	73.24	87.48	100.03	125.11
C	Santa Barbara-North of Santa Ynez	Annual	2013	311.07	361.91	426.21	536.98	73.26	86.88	100.11	125.37
C	Santa Barbara-North of Santa Ynez	Annual	2014	311.18	361.62	425.89	537.62	73.27	86.37	100.18	125.64
C	Santa Barbara-North of Santa Ynez	Annual	2015	313.00	363.39	428.01	541.26	73.31	85.95	100.25	125.92
C	Santa Barbara-North of Santa Ynez	Annual	2016	313.13	363.16	427.81	541.86	73.36	85.55	100.33	126.20
C	Santa Barbara-North of Santa Ynez	Annual	2017	313.22	362.94	427.65	542.43	73.38	85.18	100.40	126.48
C	Santa Barbara-North of Santa Ynez	Annual	2018	313.28	362.85	427.53	542.93	73.40	85.00	100.47	126.74
C	Santa Barbara-North of Santa Ynez	Annual	2019	313.35	362.86	427.43	543.35	73.43	84.95	100.55	126.99
C	Santa Barbara-North of Santa Ynez	Annual	2020	313.43	362.88	427.35	543.74	73.53	84.99	100.64	127.22
C	Santa Barbara-North of Santa Ynez	Annual	2021	313.48	362.96	427.30	543.99	73.59	85.09	100.71	127.38

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Santa Barbara-North of Santa Ynez	Annual	2022	313.49	363.03	427.24	544.20	73.64	85.18	100.77	127.51
C	Santa Barbara-North of Santa Ynez	Annual	2023	313.48	363.09	427.17	544.37	73.67	85.26	100.82	127.66
C	Santa Barbara-North of Santa Ynez	Annual	2024	313.44	363.12	427.11	544.49	73.68	85.33	100.86	127.80
C	Santa Barbara-North of Santa Ynez	Annual	2025	313.43	363.17	427.06	544.63	73.70	85.40	100.90	127.95
C	Santa Barbara-North of Santa Ynez	Annual	2026	311.28	360.68	423.96	540.92	73.71	85.47	100.92	128.08
C	Santa Barbara-North of Santa Ynez	Annual	2027	311.28	360.75	423.88	541.07	73.73	85.52	100.94	128.21
C	Santa Barbara-North of Santa Ynez	Annual	2028	311.28	360.82	423.82	541.22	73.74	85.58	100.95	128.32
C	Santa Barbara-North of Santa Ynez	Annual	2029	311.28	360.90	423.73	541.36	73.74	85.63	100.95	128.43
C	Santa Barbara-North of Santa Ynez	Annual	2030	311.26	360.97	423.64	541.52	73.75	85.67	100.95	128.53
C	Santa Barbara-North of Santa Ynez	Annual	2031	311.26	361.06	423.58	541.68	73.75	85.72	100.96	128.63
C	Santa Barbara-North of Santa Ynez	Annual	2032	311.25	361.13	423.54	541.85	73.76	85.77	100.96	128.73
C	Santa Barbara-North of Santa Ynez	Annual	2033	311.25	361.21	423.50	542.00	73.76	85.81	100.96	128.82
C	Santa Barbara-North of Santa Ynez	Annual	2034	311.24	361.27	423.46	542.14	73.76	85.85	100.97	128.90
C	Santa Barbara-North of Santa Ynez	Annual	2035	311.24	361.32	423.43	542.26	73.77	85.88	100.97	128.98
C	Santa Barbara-North of Santa Ynez	Summer	2010	318.00	370.60	437.04	547.10	73.30	88.99	99.96	124.67
C	Santa Barbara-North of Santa Ynez	Summer	2011	318.11	370.21	436.50	547.67	73.27	88.16	99.98	124.88
C	Santa Barbara-North of Santa Ynez	Summer	2012	318.23	369.92	436.07	548.31	73.24	87.48	100.03	125.11
C	Santa Barbara-North of Santa Ynez	Summer	2013	318.39	369.65	435.73	549.01	73.26	86.88	100.11	125.37
C	Santa Barbara-North of Santa Ynez	Summer	2014	318.53	369.43	435.47	549.69	73.27	86.37	100.18	125.64
C	Santa Barbara-North of Santa Ynez	Summer	2015	320.38	371.28	437.66	553.41	73.31	85.95	100.25	125.92
C	Santa Barbara-North of Santa Ynez	Summer	2016	320.52	371.11	437.49	554.06	73.36	85.55	100.33	126.20
C	Santa Barbara-North of Santa Ynez	Summer	2017	320.61	370.94	437.35	554.68	73.38	85.18	100.40	126.48
C	Santa Barbara-North of Santa Ynez	Summer	2018	320.68	370.90	437.24	555.21	73.40	85.00	100.47	126.74
C	Santa Barbara-North of Santa Ynez	Summer	2019	320.75	370.93	437.14	555.67	73.43	84.95	100.55	126.99
C	Santa Barbara-North of Santa Ynez	Summer	2020	320.82	370.99	437.07	556.08	73.53	84.99	100.64	127.22
C	Santa Barbara-North of Santa Ynez	Summer	2021	320.86	371.07	437.00	556.34	73.59	85.09	100.71	127.38
C	Santa Barbara-North of Santa Ynez	Summer	2022	320.87	371.15	436.93	556.55	73.64	85.18	100.77	127.51
C	Santa Barbara-North of Santa Ynez	Summer	2023	320.85	371.21	436.86	556.71	73.67	85.26	100.82	127.66
C	Santa Barbara-North of Santa Ynez	Summer	2024	320.82	371.26	436.79	556.83	73.68	85.33	100.86	127.80
C	Santa Barbara-North of Santa Ynez	Summer	2025	320.80	371.31	436.74	556.96	73.70	85.40	100.90	127.95
C	Santa Barbara-North of Santa Ynez	Summer	2026	318.61	368.79	433.59	553.19	73.71	85.47	100.92	128.08
C	Santa Barbara-North of Santa Ynez	Summer	2027	318.61	368.86	433.51	553.33	73.73	85.52	100.94	128.21
C	Santa Barbara-North of Santa Ynez	Summer	2028	318.62	368.94	433.45	553.48	73.74	85.58	100.95	128.32
C	Santa Barbara-North of Santa Ynez	Summer	2029	318.61	369.02	433.37	553.64	73.74	85.63	100.95	128.43
C	Santa Barbara-North of Santa Ynez	Summer	2030	318.60	369.11	433.28	553.80	73.75	85.67	100.95	128.53
C	Santa Barbara-North of Santa Ynez	Summer	2031	318.60	369.20	433.24	553.96	73.75	85.72	100.96	128.63
C	Santa Barbara-North of Santa Ynez	Summer	2032	318.60	369.29	433.20	554.14	73.76	85.77	100.96	128.73
C	Santa Barbara-North of Santa Ynez	Summer	2033	318.60	369.37	433.17	554.30	73.76	85.81	100.96	128.82
C	Santa Barbara-North of Santa Ynez	Summer	2034	318.59	369.44	433.13	554.45	73.76	85.85	100.97	128.90
C	Santa Barbara-North of Santa Ynez	Summer	2035	318.59	369.50	433.10	554.58	73.77	85.88	100.97	128.98
C	Santa Barbara-North of Santa Ynez	Winter	2010	310.39	362.63	427.17	534.37	73.30	88.99	99.96	124.67
C	Santa Barbara-North of Santa Ynez	Winter	2011	310.43	362.16	426.53	534.94	73.27	88.16	99.98	124.88
C	Santa Barbara-North of Santa Ynez	Winter	2012	310.50	361.77	426.02	535.57	73.24	87.48	100.03	125.11
C	Santa Barbara-North of Santa Ynez	Winter	2013	310.62	361.43	425.62	536.23	73.26	86.88	100.11	125.37
C	Santa Barbara-North of Santa Ynez	Winter	2014	310.73	361.13	425.30	536.87	73.27	86.37	100.18	125.64
C	Santa Barbara-North of Santa Ynez	Winter	2015	312.55	362.90	427.42	540.51	73.31	85.95	100.25	125.92
C	Santa Barbara-North of Santa Ynez	Winter	2016	312.67	362.67	427.21	541.11	73.36	85.55	100.33	126.20
C	Santa Barbara-North of Santa Ynez	Winter	2017	312.76	362.45	427.05	541.68	73.38	85.18	100.40	126.48
C	Santa Barbara-North of Santa Ynez	Winter	2018	312.83	362.36	426.93	542.17	73.40	85.00	100.47	126.74
C	Santa Barbara-North of Santa Ynez	Winter	2019	312.90	362.36	426.83	542.59	73.43	84.95	100.55	126.99
C	Santa Barbara-North of Santa Ynez	Winter	2020	312.97	362.38	426.75	542.98	73.53	84.99	100.64	127.22
C	Santa Barbara-North of Santa Ynez	Winter	2021	313.02	362.45	426.70	543.23	73.59	85.09	100.71	127.38
C	Santa Barbara-North of Santa Ynez	Winter	2022	313.04	362.53	426.64	543.44	73.64	85.18	100.77	127.51
C	Santa Barbara-North of Santa Ynez	Winter	2023	313.02	362.58	426.57	543.61	73.67	85.26	100.82	127.66

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Santa Barbara-North of Santa Ynez	Winter	2024	312.99	362.62	426.51	543.73	73.68	85.33	100.86	127.80
C	Santa Barbara-North of Santa Ynez	Winter	2025	312.98	362.66	426.46	543.87	73.70	85.40	100.90	127.95
C	Santa Barbara-North of Santa Ynez	Winter	2026	310.82	360.18	423.37	540.16	73.71	85.47	100.92	128.08
C	Santa Barbara-North of Santa Ynez	Winter	2027	310.83	360.25	423.29	540.31	73.73	85.52	100.94	128.21
C	Santa Barbara-North of Santa Ynez	Winter	2028	310.83	360.32	423.22	540.46	73.74	85.58	100.95	128.32
C	Santa Barbara-North of Santa Ynez	Winter	2029	310.82	360.40	423.14	540.60	73.74	85.63	100.95	128.43
C	Santa Barbara-North of Santa Ynez	Winter	2030	310.81	360.47	423.04	540.76	73.75	85.67	100.95	128.53
C	Santa Barbara-North of Santa Ynez	Winter	2031	310.80	360.55	422.99	540.92	73.75	85.72	100.96	128.63
C	Santa Barbara-North of Santa Ynez	Winter	2032	310.80	360.63	422.94	541.09	73.76	85.77	100.96	128.73
C	Santa Barbara-North of Santa Ynez	Winter	2033	310.80	360.70	422.90	541.24	73.76	85.81	100.96	128.82
C	Santa Barbara-North of Santa Ynez	Winter	2034	310.79	360.76	422.87	541.38	73.76	85.85	100.97	128.90
C	Santa Barbara-North of Santa Ynez	Winter	2035	310.78	360.82	422.83	541.50	73.77	85.88	100.97	128.98
C	Santa Barbara-South of Santa Ynez Ran	Annual	2010	310.84	363.09	427.75	535.11	73.30	88.99	99.96	124.67
C	Santa Barbara-South of Santa Ynez Ran	Annual	2011	310.88	362.63	427.11	535.68	73.27	88.16	99.98	124.88
C	Santa Barbara-South of Santa Ynez Ran	Annual	2012	310.95	362.25	426.61	536.31	73.24	87.48	100.03	125.11
C	Santa Barbara-South of Santa Ynez Ran	Annual	2013	311.07	361.91	426.21	536.98	73.26	86.88	100.11	125.37
C	Santa Barbara-South of Santa Ynez Ran	Annual	2014	311.18	361.62	425.89	537.62	73.27	86.37	100.18	125.64
C	Santa Barbara-South of Santa Ynez Ran	Annual	2015	313.00	363.39	428.01	541.26	73.31	85.95	100.25	125.92
C	Santa Barbara-South of Santa Ynez Ran	Annual	2016	313.13	363.16	427.81	541.86	73.36	85.55	100.33	126.20
C	Santa Barbara-South of Santa Ynez Ran	Annual	2017	313.22	362.94	427.65	542.43	73.38	85.18	100.40	126.48
C	Santa Barbara-South of Santa Ynez Ran	Annual	2018	313.28	362.85	427.53	542.93	73.40	85.00	100.47	126.74
C	Santa Barbara-South of Santa Ynez Ran	Annual	2019	313.35	362.86	427.43	543.35	73.43	84.95	100.55	126.99
C	Santa Barbara-South of Santa Ynez Ran	Annual	2020	313.43	362.88	427.35	543.74	73.53	84.99	100.64	127.22
C	Santa Barbara-South of Santa Ynez Ran	Annual	2021	313.48	362.96	427.30	543.99	73.59	85.09	100.71	127.38
C	Santa Barbara-South of Santa Ynez Ran	Annual	2022	313.49	363.03	427.24	544.20	73.64	85.18	100.77	127.51
C	Santa Barbara-South of Santa Ynez Ran	Annual	2023	313.48	363.09	427.17	544.37	73.67	85.26	100.82	127.66
C	Santa Barbara-South of Santa Ynez Ran	Annual	2024	313.44	363.12	427.11	544.49	73.68	85.33	100.86	127.80
C	Santa Barbara-South of Santa Ynez Ran	Annual	2025	313.43	363.17	427.06	544.63	73.70	85.40	100.90	127.95
C	Santa Barbara-South of Santa Ynez Ran	Annual	2026	311.28	360.68	423.96	540.92	73.71	85.47	100.92	128.08
C	Santa Barbara-South of Santa Ynez Ran	Annual	2027	311.28	360.75	423.88	541.07	73.73	85.52	100.94	128.21
C	Santa Barbara-South of Santa Ynez Ran	Annual	2028	311.28	360.82	423.82	541.22	73.74	85.58	100.95	128.32
C	Santa Barbara-South of Santa Ynez Ran	Annual	2029	311.28	360.90	423.73	541.36	73.74	85.63	100.95	128.43
C	Santa Barbara-South of Santa Ynez Ran	Annual	2030	311.26	360.97	423.64	541.52	73.75	85.67	100.95	128.53
C	Santa Barbara-South of Santa Ynez Ran	Annual	2031	311.26	361.06	423.58	541.68	73.75	85.72	100.96	128.63
C	Santa Barbara-South of Santa Ynez Ran	Annual	2032	311.25	361.13	423.54	541.85	73.76	85.77	100.96	128.73
C	Santa Barbara-South of Santa Ynez Ran	Annual	2033	311.25	361.21	423.50	542.00	73.76	85.81	100.96	128.82
C	Santa Barbara-South of Santa Ynez Ran	Annual	2034	311.24	361.27	423.46	542.14	73.76	85.85	100.97	128.90
C	Santa Barbara-South of Santa Ynez Ran	Annual	2035	311.24	361.32	423.43	542.26	73.77	85.88	100.97	128.98
C	Santa Barbara-South of Santa Ynez Ran	Summer	2010	318.00	370.60	437.04	547.10	73.30	88.99	99.96	124.67
C	Santa Barbara-South of Santa Ynez Ran	Summer	2011	318.11	370.21	436.50	547.67	73.27	88.16	99.98	124.88
C	Santa Barbara-South of Santa Ynez Ran	Summer	2012	318.23	369.92	436.07	548.31	73.24	87.48	100.03	125.11
C	Santa Barbara-South of Santa Ynez Ran	Summer	2013	318.39	369.65	435.73	549.01	73.26	86.88	100.11	125.37
C	Santa Barbara-South of Santa Ynez Ran	Summer	2014	318.53	369.43	435.47	549.69	73.27	86.37	100.18	125.64
C	Santa Barbara-South of Santa Ynez Ran	Summer	2015	320.38	371.28	437.66	553.41	73.31	85.95	100.25	125.92
C	Santa Barbara-South of Santa Ynez Ran	Summer	2016	320.52	371.11	437.49	554.06	73.36	85.55	100.33	126.20
C	Santa Barbara-South of Santa Ynez Ran	Summer	2017	320.61	370.94	437.35	554.68	73.38	85.18	100.40	126.48
C	Santa Barbara-South of Santa Ynez Ran	Summer	2018	320.68	370.90	437.24	555.21	73.40	85.00	100.47	126.74
C	Santa Barbara-South of Santa Ynez Ran	Summer	2019	320.75	370.93	437.14	555.67	73.43	84.95	100.55	126.99
C	Santa Barbara-South of Santa Ynez Ran	Summer	2020	320.82	370.99	437.07	556.08	73.53	84.99	100.64	127.22
C	Santa Barbara-South of Santa Ynez Ran	Summer	2021	320.86	371.07	437.00	556.34	73.59	85.09	100.71	127.38
C	Santa Barbara-South of Santa Ynez Ran	Summer	2022	320.87	371.15	436.93	556.55	73.64	85.18	100.77	127.51
C	Santa Barbara-South of Santa Ynez Ran	Summer	2023	320.85	371.21	436.86	556.71	73.67	85.26	100.82	127.66
C	Santa Barbara-South of Santa Ynez Ran	Summer	2024	320.82	371.26	436.79	556.83	73.68	85.33	100.86	127.80
C	Santa Barbara-South of Santa Ynez Ran	Summer	2025	320.80	371.31	436.74	556.96	73.70	85.40	100.90	127.95

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Santa Barbara-South of Santa Ynez Ran	Summer	2026	318.61	368.79	433.59	553.19	73.71	85.47	100.92	128.08
C	Santa Barbara-South of Santa Ynez Ran	Summer	2027	318.61	368.86	433.51	553.33	73.73	85.52	100.94	128.21
C	Santa Barbara-South of Santa Ynez Ran	Summer	2028	318.62	368.94	433.45	553.48	73.74	85.58	100.95	128.32
C	Santa Barbara-South of Santa Ynez Ran	Summer	2029	318.61	369.02	433.37	553.64	73.74	85.63	100.95	128.43
C	Santa Barbara-South of Santa Ynez Ran	Summer	2030	318.60	369.11	433.28	553.80	73.75	85.67	100.95	128.53
C	Santa Barbara-South of Santa Ynez Ran	Summer	2031	318.60	369.20	433.24	553.96	73.75	85.72	100.96	128.63
C	Santa Barbara-South of Santa Ynez Ran	Summer	2032	318.60	369.29	433.20	554.14	73.76	85.77	100.96	128.73
C	Santa Barbara-South of Santa Ynez Ran	Summer	2033	318.60	369.37	433.17	554.30	73.76	85.81	100.96	128.82
C	Santa Barbara-South of Santa Ynez Ran	Summer	2034	318.59	369.44	433.13	554.45	73.76	85.85	100.97	128.90
C	Santa Barbara-South of Santa Ynez Ran	Summer	2035	318.59	369.50	433.10	554.58	73.77	85.88	100.97	128.98
C	Santa Barbara-South of Santa Ynez Ran	Winter	2010	310.39	362.63	427.17	534.37	73.30	88.99	99.96	124.67
C	Santa Barbara-South of Santa Ynez Ran	Winter	2011	310.43	362.16	426.53	534.94	73.27	88.16	99.98	124.88
C	Santa Barbara-South of Santa Ynez Ran	Winter	2012	310.50	361.77	426.02	535.57	73.24	87.48	100.03	125.11
C	Santa Barbara-South of Santa Ynez Ran	Winter	2013	310.62	361.43	425.62	536.23	73.26	86.88	100.11	125.37
C	Santa Barbara-South of Santa Ynez Ran	Winter	2014	310.73	361.13	425.30	536.87	73.27	86.37	100.18	125.64
C	Santa Barbara-South of Santa Ynez Ran	Winter	2015	312.55	362.90	427.42	540.51	73.31	85.95	100.25	125.92
C	Santa Barbara-South of Santa Ynez Ran	Winter	2016	312.67	362.67	427.21	541.11	73.36	85.55	100.33	126.20
C	Santa Barbara-South of Santa Ynez Ran	Winter	2017	312.76	362.45	427.05	541.68	73.38	85.18	100.40	126.48
C	Santa Barbara-South of Santa Ynez Ran	Winter	2018	312.83	362.36	426.93	542.17	73.40	85.00	100.47	126.74
C	Santa Barbara-South of Santa Ynez Ran	Winter	2019	312.90	362.36	426.83	542.59	73.43	84.95	100.55	126.99
C	Santa Barbara-South of Santa Ynez Ran	Winter	2020	312.97	362.38	426.75	542.98	73.53	84.99	100.64	127.22
C	Santa Barbara-South of Santa Ynez Ran	Winter	2021	313.02	362.45	426.70	543.23	73.59	85.09	100.71	127.38
C	Santa Barbara-South of Santa Ynez Ran	Winter	2022	313.04	362.53	426.64	543.44	73.64	85.18	100.77	127.51
C	Santa Barbara-South of Santa Ynez Ran	Winter	2023	313.02	362.58	426.57	543.61	73.67	85.26	100.82	127.66
C	Santa Barbara-South of Santa Ynez Ran	Winter	2024	312.99	362.62	426.51	543.73	73.68	85.33	100.86	127.80
C	Santa Barbara-South of Santa Ynez Ran	Winter	2025	312.98	362.66	426.46	543.87	73.70	85.40	100.90	127.95
C	Santa Barbara-South of Santa Ynez Ran	Winter	2026	310.82	360.18	423.37	540.16	73.71	85.47	100.92	128.08
C	Santa Barbara-South of Santa Ynez Ran	Winter	2027	310.83	360.25	423.29	540.31	73.73	85.52	100.94	128.21
C	Santa Barbara-South of Santa Ynez Ran	Winter	2028	310.83	360.32	423.22	540.46	73.74	85.58	100.95	128.32
C	Santa Barbara-South of Santa Ynez Ran	Winter	2029	310.82	360.40	423.14	540.60	73.74	85.63	100.95	128.43
C	Santa Barbara-South of Santa Ynez Ran	Winter	2030	310.81	360.47	423.04	540.76	73.75	85.67	100.95	128.53
C	Santa Barbara-South of Santa Ynez Ran	Winter	2031	310.80	360.55	422.99	540.92	73.75	85.72	100.96	128.63
C	Santa Barbara-South of Santa Ynez Ran	Winter	2032	310.80	360.63	422.94	541.09	73.76	85.77	100.96	128.73
C	Santa Barbara-South of Santa Ynez Ran	Winter	2033	310.80	360.70	422.90	541.24	73.76	85.81	100.96	128.82
C	Santa Barbara-South of Santa Ynez Ran	Winter	2034	310.79	360.76	422.87	541.38	73.76	85.85	100.97	128.90
C	Santa Barbara-South of Santa Ynez Ran	Winter	2035	310.78	360.82	422.83	541.50	73.77	85.88	100.97	128.98
C	Santa Clara (SF)	Annual	2010	329.54	379.42	451.34	568.91	72.72	84.35	99.27	124.50
C	Santa Clara (SF)	Annual	2011	329.74	379.85	451.25	569.47	72.79	84.25	99.38	124.72
C	Santa Clara (SF)	Annual	2012	329.96	380.27	451.20	570.08	72.88	84.20	99.53	124.96
C	Santa Clara (SF)	Annual	2013	330.20	380.67	451.15	570.74	72.98	84.20	99.67	125.22
C	Santa Clara (SF)	Annual	2014	330.42	381.04	451.13	571.39	73.07	84.19	99.80	125.48
C	Santa Clara (SF)	Annual	2015	330.66	381.39	451.11	572.06	73.19	84.22	99.92	125.76
C	Santa Clara (SF)	Annual	2016	330.88	381.76	451.11	572.69	73.31	84.28	100.05	126.03
C	Santa Clara (SF)	Annual	2017	331.05	382.11	451.10	573.29	73.40	84.35	100.15	126.31
C	Santa Clara (SF)	Annual	2018	331.20	382.41	451.10	573.81	73.48	84.42	100.25	126.57
C	Santa Clara (SF)	Annual	2019	331.33	382.70	451.11	574.27	73.56	84.54	100.35	126.81
C	Santa Clara (SF)	Annual	2020	331.44	382.97	451.11	574.68	73.67	84.69	100.45	127.04
C	Santa Clara (SF)	Annual	2021	331.53	383.22	451.12	575.01	73.75	84.85	100.55	127.23
C	Santa Clara (SF)	Annual	2022	331.58	383.42	451.12	575.30	73.81	84.99	100.63	127.38
C	Santa Clara (SF)	Annual	2023	331.60	383.59	451.11	575.52	73.85	85.11	100.70	127.56
C	Santa Clara (SF)	Annual	2024	331.59	383.72	451.11	575.69	73.88	85.22	100.75	127.72
C	Santa Clara (SF)	Annual	2025	331.60	383.84	451.10	575.86	73.91	85.32	100.80	127.87
C	Santa Clara (SF)	Annual	2026	331.62	383.98	451.09	576.04	73.93	85.42	100.84	128.02
C	Santa Clara (SF)	Annual	2027	331.63	384.13	451.08	576.20	73.94	85.51	100.87	128.15

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Santa Clara (SF)	Annual	2028	331.63	384.27	451.07	576.37	73.95	85.59	100.89	128.27
C	Santa Clara (SF)	Annual	2029	331.63	384.42	451.05	576.54	73.96	85.67	100.91	128.38
C	Santa Clara (SF)	Annual	2030	331.63	384.57	451.04	576.71	73.97	85.74	100.93	128.49
C	Santa Clara (SF)	Annual	2031	331.63	384.73	451.03	576.89	73.97	85.82	100.94	128.60
C	Santa Clara (SF)	Annual	2032	331.62	384.87	451.03	577.08	73.98	85.89	100.95	128.70
C	Santa Clara (SF)	Annual	2033	331.62	385.01	451.02	577.25	73.98	85.95	100.95	128.80
C	Santa Clara (SF)	Annual	2034	331.62	385.12	451.01	577.41	73.99	86.01	100.96	128.88
C	Santa Clara (SF)	Annual	2035	331.62	385.22	451.00	577.55	73.99	86.06	100.97	128.96
C	Santa Clara (SF)	Summer	2010	355.01	405.62	485.21	611.43	72.72	84.35	99.27	124.50
C	Santa Clara (SF)	Summer	2011	355.38	406.43	485.18	611.92	72.79	84.25	99.38	124.72
C	Santa Clara (SF)	Summer	2012	355.73	407.17	485.18	612.54	72.88	84.20	99.53	124.96
C	Santa Clara (SF)	Summer	2013	356.08	407.85	485.21	613.25	72.98	84.20	99.67	125.22
C	Santa Clara (SF)	Summer	2014	356.38	408.44	485.27	614.00	73.07	84.19	99.80	125.48
C	Santa Clara (SF)	Summer	2015	356.67	408.98	485.34	614.82	73.19	84.22	99.92	125.76
C	Santa Clara (SF)	Summer	2016	356.93	409.53	485.41	615.61	73.31	84.28	100.05	126.03
C	Santa Clara (SF)	Summer	2017	357.13	410.03	485.47	616.36	73.40	84.35	100.15	126.31
C	Santa Clara (SF)	Summer	2018	357.28	410.48	485.51	617.01	73.48	84.42	100.25	126.57
C	Santa Clara (SF)	Summer	2019	357.41	410.89	485.53	617.56	73.56	84.54	100.35	126.81
C	Santa Clara (SF)	Summer	2020	357.52	411.27	485.53	618.06	73.67	84.69	100.45	127.04
C	Santa Clara (SF)	Summer	2021	357.60	411.59	485.53	618.46	73.75	84.85	100.55	127.23
C	Santa Clara (SF)	Summer	2022	357.65	411.88	485.52	618.80	73.81	84.99	100.63	127.38
C	Santa Clara (SF)	Summer	2023	357.67	412.12	485.51	619.06	73.85	85.11	100.70	127.56
C	Santa Clara (SF)	Summer	2024	357.67	412.32	485.49	619.25	73.88	85.22	100.75	127.72
C	Santa Clara (SF)	Summer	2025	357.67	412.50	485.48	619.43	73.91	85.32	100.80	127.87
C	Santa Clara (SF)	Summer	2026	357.69	412.71	485.46	619.61	73.93	85.42	100.84	128.02
C	Santa Clara (SF)	Summer	2027	357.71	412.91	485.44	619.78	73.94	85.51	100.87	128.15
C	Santa Clara (SF)	Summer	2028	357.72	413.11	485.42	619.95	73.95	85.59	100.89	128.27
C	Santa Clara (SF)	Summer	2029	357.73	413.32	485.41	620.13	73.96	85.67	100.91	128.38
C	Santa Clara (SF)	Summer	2030	357.73	413.53	485.40	620.32	73.97	85.74	100.93	128.49
C	Santa Clara (SF)	Summer	2031	357.73	413.75	485.39	620.53	73.97	85.82	100.94	128.60
C	Santa Clara (SF)	Summer	2032	357.74	413.95	485.38	620.74	73.98	85.89	100.95	128.70
C	Santa Clara (SF)	Summer	2033	357.74	414.12	485.38	620.94	73.98	85.95	100.95	128.80
C	Santa Clara (SF)	Summer	2034	357.74	414.27	485.37	621.13	73.99	86.01	100.96	128.88
C	Santa Clara (SF)	Summer	2035	357.73	414.39	485.37	621.30	73.99	86.06	100.97	128.96
C	Santa Clara (SF)	Winter	2010	325.35	375.11	445.76	561.90	72.72	84.35	99.27	124.50
C	Santa Clara (SF)	Winter	2011	325.51	375.47	445.67	562.47	72.79	84.25	99.38	124.72
C	Santa Clara (SF)	Winter	2012	325.71	375.83	445.60	563.09	72.88	84.20	99.53	124.96
C	Santa Clara (SF)	Winter	2013	325.93	376.19	445.54	563.73	72.98	84.20	99.67	125.22
C	Santa Clara (SF)	Winter	2014	326.15	376.52	445.50	564.37	73.07	84.19	99.80	125.48
C	Santa Clara (SF)	Winter	2015	326.37	376.85	445.47	565.01	73.19	84.22	99.92	125.76
C	Santa Clara (SF)	Winter	2016	326.59	377.19	445.45	565.62	73.31	84.28	100.05	126.03
C	Santa Clara (SF)	Winter	2017	326.76	377.50	445.44	566.19	73.40	84.35	100.15	126.31
C	Santa Clara (SF)	Winter	2018	326.90	377.78	445.43	566.70	73.48	84.42	100.25	126.57
C	Santa Clara (SF)	Winter	2019	327.03	378.05	445.44	567.14	73.56	84.54	100.35	126.81
C	Santa Clara (SF)	Winter	2020	327.15	378.31	445.44	567.53	73.67	84.69	100.45	127.04
C	Santa Clara (SF)	Winter	2021	327.23	378.54	445.45	567.85	73.75	84.85	100.55	127.23
C	Santa Clara (SF)	Winter	2022	327.28	378.74	445.45	568.13	73.81	84.99	100.63	127.38
C	Santa Clara (SF)	Winter	2023	327.30	378.89	445.45	568.35	73.85	85.11	100.70	127.56
C	Santa Clara (SF)	Winter	2024	327.30	379.01	445.44	568.51	73.88	85.22	100.75	127.72
C	Santa Clara (SF)	Winter	2025	327.30	379.11	445.44	568.68	73.91	85.32	100.80	127.87
C	Santa Clara (SF)	Winter	2026	327.32	379.25	445.43	568.86	73.93	85.42	100.84	128.02
C	Santa Clara (SF)	Winter	2027	327.33	379.38	445.42	569.02	73.94	85.51	100.87	128.15
C	Santa Clara (SF)	Winter	2028	327.33	379.52	445.41	569.19	73.95	85.59	100.89	128.27
C	Santa Clara (SF)	Winter	2029	327.33	379.66	445.39	569.35	73.96	85.67	100.91	128.38

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Santa Clara (SF)	Winter	2030	327.33	379.80	445.38	569.52	73.97	85.74	100.93	128.49
C	Santa Clara (SF)	Winter	2031	327.32	379.94	445.37	569.70	73.97	85.82	100.94	128.60
C	Santa Clara (SF)	Winter	2032	327.32	380.08	445.37	569.89	73.98	85.89	100.95	128.70
C	Santa Clara (SF)	Winter	2033	327.32	380.21	445.36	570.06	73.98	85.95	100.95	128.80
C	Santa Clara (SF)	Winter	2034	327.32	380.32	445.35	570.21	73.99	86.01	100.96	128.88
C	Santa Clara (SF)	Winter	2035	327.31	380.42	445.34	570.34	73.99	86.06	100.97	128.96
C	Santa Cruz (NCC)	Annual	2010	342.18	398.70	471.90	588.13	72.83	89.70	99.97	123.98
C	Santa Cruz (NCC)	Annual	2011	344.76	401.21	474.70	593.14	72.81	88.62	99.97	124.15
C	Santa Cruz (NCC)	Annual	2012	344.81	400.83	474.13	593.83	72.75	87.71	100.01	124.36
C	Santa Cruz (NCC)	Annual	2013	344.95	400.57	473.67	594.62	72.78	87.04	100.08	124.60
C	Santa Cruz (NCC)	Annual	2014	345.06	400.34	473.31	595.40	72.76	86.42	100.14	124.86
C	Santa Cruz (NCC)	Annual	2015	345.22	400.10	473.04	596.22	72.81	85.81	100.22	125.15
C	Santa Cruz (NCC)	Annual	2016	345.38	399.90	472.82	597.00	72.88	85.29	100.31	125.44
C	Santa Cruz (NCC)	Annual	2017	345.51	399.79	472.64	597.74	72.93	84.93	100.39	125.75
C	Santa Cruz (NCC)	Annual	2018	345.60	399.69	472.51	598.40	72.95	84.60	100.46	126.03
C	Santa Cruz (NCC)	Annual	2019	345.68	399.71	472.40	598.98	72.99	84.49	100.53	126.31
C	Santa Cruz (NCC)	Annual	2020	345.78	399.78	472.32	599.51	73.09	84.55	100.62	126.57
C	Santa Cruz (NCC)	Annual	2021	347.98	402.45	475.22	603.70	73.17	84.68	100.70	126.78
C	Santa Cruz (NCC)	Annual	2022	348.01	402.58	475.14	604.04	73.23	84.80	100.77	126.94
C	Santa Cruz (NCC)	Annual	2023	347.99	402.69	475.06	604.31	73.26	84.91	100.82	127.15
C	Santa Cruz (NCC)	Annual	2024	347.94	402.76	474.98	604.50	73.27	85.00	100.86	127.33
C	Santa Cruz (NCC)	Annual	2025	347.93	402.83	474.91	604.71	73.30	85.09	100.90	127.51
C	Santa Cruz (NCC)	Annual	2026	347.93	402.92	474.83	604.93	73.32	85.18	100.92	127.68
C	Santa Cruz (NCC)	Annual	2027	347.94	403.00	474.74	605.14	73.33	85.25	100.94	127.83
C	Santa Cruz (NCC)	Annual	2028	347.93	403.10	474.65	605.36	73.34	85.31	100.95	127.98
C	Santa Cruz (NCC)	Annual	2029	347.92	403.20	474.53	605.57	73.35	85.38	100.95	128.11
C	Santa Cruz (NCC)	Annual	2030	347.91	403.30	474.43	605.80	73.35	85.44	100.94	128.24
C	Santa Cruz (NCC)	Annual	2031	347.90	403.41	474.37	606.04	73.36	85.50	100.95	128.37
C	Santa Cruz (NCC)	Annual	2032	347.90	403.52	474.32	606.30	73.37	85.56	100.95	128.50
C	Santa Cruz (NCC)	Annual	2033	347.90	403.62	474.28	606.52	73.37	85.61	100.96	128.62
C	Santa Cruz (NCC)	Annual	2034	347.89	403.71	474.24	606.73	73.38	85.66	100.96	128.72
C	Santa Cruz (NCC)	Annual	2035	347.88	403.77	474.20	606.91	73.38	85.70	100.96	128.83
C	Santa Cruz (NCC)	Summer	2010	359.20	416.81	494.15	616.49	72.83	89.70	99.97	123.98
C	Santa Cruz (NCC)	Summer	2011	362.08	419.64	497.38	621.70	72.81	88.62	99.97	124.15
C	Santa Cruz (NCC)	Summer	2012	362.25	419.43	497.01	622.43	72.75	87.71	100.01	124.36
C	Santa Cruz (NCC)	Summer	2013	362.49	419.31	496.73	623.32	72.78	87.04	100.08	124.60
C	Santa Cruz (NCC)	Summer	2014	362.67	419.21	496.51	624.22	72.76	86.42	100.14	124.86
C	Santa Cruz (NCC)	Summer	2015	362.88	419.11	496.33	625.19	72.81	85.81	100.22	125.15
C	Santa Cruz (NCC)	Summer	2016	363.08	419.04	496.18	626.11	72.88	85.29	100.31	125.44
C	Santa Cruz (NCC)	Summer	2017	363.22	419.05	496.05	626.99	72.93	84.93	100.39	125.75
C	Santa Cruz (NCC)	Summer	2018	363.31	419.05	495.92	627.77	72.95	84.60	100.46	126.03
C	Santa Cruz (NCC)	Summer	2019	363.39	419.15	495.82	628.45	72.99	84.49	100.53	126.31
C	Santa Cruz (NCC)	Summer	2020	363.48	419.29	495.74	629.06	73.09	84.55	100.62	126.57
C	Santa Cruz (NCC)	Summer	2021	365.79	422.13	498.77	633.49	73.17	84.68	100.70	126.78
C	Santa Cruz (NCC)	Summer	2022	365.81	422.31	498.69	633.89	73.23	84.80	100.77	126.94
C	Santa Cruz (NCC)	Summer	2023	365.79	422.46	498.61	634.19	73.26	84.91	100.82	127.15
C	Santa Cruz (NCC)	Summer	2024	365.75	422.57	498.54	634.39	73.27	85.00	100.86	127.33
C	Santa Cruz (NCC)	Summer	2025	365.74	422.66	498.48	634.61	73.30	85.09	100.90	127.51
C	Santa Cruz (NCC)	Summer	2026	365.75	422.78	498.40	634.82	73.32	85.18	100.92	127.68
C	Santa Cruz (NCC)	Summer	2027	365.76	422.88	498.33	635.04	73.33	85.25	100.94	127.83
C	Santa Cruz (NCC)	Summer	2028	365.76	422.99	498.25	635.25	73.34	85.31	100.95	127.98
C	Santa Cruz (NCC)	Summer	2029	365.75	423.11	498.15	635.48	73.35	85.38	100.95	128.11
C	Santa Cruz (NCC)	Summer	2030	365.75	423.23	498.06	635.71	73.35	85.44	100.94	128.24
C	Santa Cruz (NCC)	Summer	2031	365.75	423.36	498.02	635.98	73.36	85.50	100.95	128.37

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Santa Cruz (NCC)	Summer	2032	365.75	423.49	497.98	636.26	73.37	85.56	100.95	128.50
C	Santa Cruz (NCC)	Summer	2033	365.75	423.60	497.95	636.52	73.37	85.61	100.96	128.62
C	Santa Cruz (NCC)	Summer	2034	365.75	423.70	497.91	636.76	73.38	85.66	100.96	128.72
C	Santa Cruz (NCC)	Summer	2035	365.74	423.77	497.88	636.97	73.38	85.70	100.96	128.83
C	Santa Cruz (NCC)	Winter	2010	341.89	398.39	471.51	587.64	72.83	89.70	99.97	123.98
C	Santa Cruz (NCC)	Winter	2011	344.46	400.89	474.31	592.65	72.81	88.62	99.97	124.15
C	Santa Cruz (NCC)	Winter	2012	344.51	400.51	473.73	593.34	72.75	87.71	100.01	124.36
C	Santa Cruz (NCC)	Winter	2013	344.64	400.25	473.27	594.13	72.78	87.04	100.08	124.60
C	Santa Cruz (NCC)	Winter	2014	344.75	400.01	472.91	594.90	72.76	86.42	100.14	124.86
C	Santa Cruz (NCC)	Winter	2015	344.91	399.77	472.63	595.72	72.81	85.81	100.22	125.15
C	Santa Cruz (NCC)	Winter	2016	345.08	399.57	472.41	596.49	72.88	85.29	100.31	125.44
C	Santa Cruz (NCC)	Winter	2017	345.20	399.46	472.24	597.23	72.93	84.93	100.39	125.75
C	Santa Cruz (NCC)	Winter	2018	345.29	399.35	472.10	597.89	72.95	84.60	100.46	126.03
C	Santa Cruz (NCC)	Winter	2019	345.38	399.37	472.00	598.47	72.99	84.49	100.53	126.31
C	Santa Cruz (NCC)	Winter	2020	345.47	399.45	471.92	598.99	73.09	84.55	100.62	126.57
C	Santa Cruz (NCC)	Winter	2021	347.68	402.11	474.81	603.18	73.17	84.68	100.70	126.78
C	Santa Cruz (NCC)	Winter	2022	347.70	402.24	474.73	603.53	73.23	84.80	100.77	126.94
C	Santa Cruz (NCC)	Winter	2023	347.69	402.34	474.65	603.79	73.26	84.91	100.82	127.15
C	Santa Cruz (NCC)	Winter	2024	347.64	402.42	474.57	603.98	73.27	85.00	100.86	127.33
C	Santa Cruz (NCC)	Winter	2025	347.62	402.49	474.51	604.19	73.30	85.09	100.90	127.51
C	Santa Cruz (NCC)	Winter	2026	347.63	402.58	474.42	604.41	73.32	85.18	100.92	127.68
C	Santa Cruz (NCC)	Winter	2027	347.63	402.66	474.33	604.63	73.33	85.25	100.94	127.83
C	Santa Cruz (NCC)	Winter	2028	347.63	402.75	474.24	604.84	73.34	85.31	100.95	127.98
C	Santa Cruz (NCC)	Winter	2029	347.61	402.85	474.12	605.05	73.35	85.38	100.95	128.11
C	Santa Cruz (NCC)	Winter	2030	347.60	402.96	474.02	605.28	73.35	85.44	100.94	128.24
C	Santa Cruz (NCC)	Winter	2031	347.60	403.07	473.96	605.52	73.36	85.50	100.95	128.37
C	Santa Cruz (NCC)	Winter	2032	347.59	403.18	473.91	605.78	73.37	85.56	100.95	128.50
C	Santa Cruz (NCC)	Winter	2033	347.59	403.27	473.87	606.01	73.37	85.61	100.96	128.62
C	Santa Cruz (NCC)	Winter	2034	347.58	403.36	473.83	606.21	73.38	85.66	100.96	128.72
C	Santa Cruz (NCC)	Winter	2035	347.58	403.43	473.79	606.39	73.38	85.70	100.96	128.83
C	Shasta (SV)	Annual	2010	350.80	413.29	482.10	601.62	74.15	98.71	101.24	125.46
C	Shasta (SV)	Annual	2011	350.90	412.33	481.45	602.23	73.97	96.26	101.09	125.49
C	Shasta (SV)	Annual	2012	351.01	411.55	480.95	602.95	73.79	94.20	101.00	125.59
C	Shasta (SV)	Annual	2013	351.16	410.88	480.56	603.76	73.67	92.45	100.93	125.73
C	Shasta (SV)	Annual	2014	351.28	410.22	480.26	604.58	73.54	90.71	100.85	125.88
C	Shasta (SV)	Annual	2015	351.43	409.72	480.02	605.45	73.48	89.34	100.76	126.07
C	Shasta (SV)	Annual	2016	351.59	409.32	479.82	606.30	73.48	88.23	100.75	126.28
C	Shasta (SV)	Annual	2017	351.70	408.85	479.65	607.09	73.46	86.94	100.68	126.51
C	Shasta (SV)	Annual	2018	351.78	408.50	479.51	607.77	73.42	85.93	100.65	126.73
C	Shasta (SV)	Annual	2019	351.86	408.40	479.39	608.38	73.43	85.58	100.66	126.93
C	Shasta (SV)	Annual	2020	351.92	408.34	479.30	608.94	73.52	85.46	100.71	127.12
C	Shasta (SV)	Annual	2021	351.97	408.41	479.21	609.29	73.59	85.54	100.78	127.19
C	Shasta (SV)	Annual	2022	352.00	408.47	479.13	609.57	73.64	85.60	100.83	127.24
C	Shasta (SV)	Annual	2023	351.99	408.52	479.04	609.77	73.67	85.66	100.87	127.40
C	Shasta (SV)	Annual	2024	351.96	408.57	478.97	609.93	73.69	85.71	100.90	127.56
C	Shasta (SV)	Annual	2025	351.96	408.62	478.91	610.13	73.71	85.77	100.93	127.72
C	Shasta (SV)	Annual	2026	351.98	408.69	478.84	610.34	73.73	85.83	100.95	127.89
C	Shasta (SV)	Annual	2027	351.99	408.74	478.77	610.55	73.74	85.87	100.96	128.04
C	Shasta (SV)	Annual	2028	352.00	408.80	478.71	610.77	73.75	85.92	100.97	128.18
C	Shasta (SV)	Annual	2029	352.00	408.87	478.63	610.99	73.76	85.96	100.97	128.31
C	Shasta (SV)	Annual	2030	351.99	408.94	478.56	611.21	73.76	86.00	100.96	128.43
C	Shasta (SV)	Annual	2031	351.99	409.00	478.53	611.45	73.77	86.04	100.96	128.55
C	Shasta (SV)	Annual	2032	351.99	409.07	478.50	611.69	73.78	86.08	100.96	128.67
C	Shasta (SV)	Annual	2033	351.98	409.12	478.47	611.91	73.78	86.11	100.97	128.77

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Shasta (SV)	Annual	2034	351.98	409.16	478.44	612.11	73.78	86.14	100.97	128.87
C	Shasta (SV)	Annual	2035	351.97	409.20	478.42	612.29	73.79	86.17	100.97	128.96
C	Shasta (SV)	Summer	2010	377.12	440.81	516.16	644.42	74.15	98.71	101.24	125.46
C	Shasta (SV)	Summer	2011	377.45	440.35	515.97	645.10	73.97	96.26	101.09	125.49
C	Shasta (SV)	Summer	2012	377.75	439.98	515.82	645.96	73.79	94.20	101.00	125.59
C	Shasta (SV)	Summer	2013	378.03	439.65	515.70	646.99	73.67	92.45	100.93	125.73
C	Shasta (SV)	Summer	2014	378.26	439.31	515.62	648.05	73.54	90.71	100.85	125.88
C	Shasta (SV)	Summer	2015	378.49	439.05	515.56	649.19	73.48	89.34	100.76	126.07
C	Shasta (SV)	Summer	2016	378.71	438.86	515.49	650.32	73.48	88.23	100.75	126.28
C	Shasta (SV)	Summer	2017	378.85	438.66	515.40	651.36	73.46	86.94	100.68	126.51
C	Shasta (SV)	Summer	2018	378.93	438.50	515.27	652.24	73.42	85.93	100.65	126.73
C	Shasta (SV)	Summer	2019	379.01	438.48	515.17	653.03	73.43	85.58	100.66	126.93
C	Shasta (SV)	Summer	2020	379.07	438.49	515.07	653.75	73.52	85.46	100.71	127.12
C	Shasta (SV)	Summer	2021	379.11	438.58	514.97	654.24	73.59	85.54	100.78	127.19
C	Shasta (SV)	Summer	2022	379.12	438.68	514.88	654.63	73.64	85.60	100.83	127.24
C	Shasta (SV)	Summer	2023	379.11	438.76	514.80	654.91	73.67	85.66	100.87	127.40
C	Shasta (SV)	Summer	2024	379.10	438.85	514.73	655.11	73.69	85.71	100.90	127.56
C	Shasta (SV)	Summer	2025	379.11	438.93	514.68	655.32	73.71	85.77	100.93	127.72
C	Shasta (SV)	Summer	2026	379.13	439.02	514.61	655.54	73.73	85.83	100.95	127.89
C	Shasta (SV)	Summer	2027	379.15	439.10	514.56	655.77	73.74	85.87	100.96	128.04
C	Shasta (SV)	Summer	2028	379.16	439.18	514.51	656.00	73.75	85.92	100.97	128.18
C	Shasta (SV)	Summer	2029	379.17	439.28	514.46	656.24	73.76	85.96	100.97	128.31
C	Shasta (SV)	Summer	2030	379.18	439.37	514.41	656.49	73.76	86.00	100.96	128.43
C	Shasta (SV)	Summer	2031	379.17	439.46	514.40	656.77	73.77	86.04	100.96	128.55
C	Shasta (SV)	Summer	2032	379.17	439.53	514.40	657.05	73.78	86.08	100.96	128.67
C	Shasta (SV)	Summer	2033	379.17	439.59	514.38	657.31	73.78	86.11	100.97	128.77
C	Shasta (SV)	Summer	2034	379.16	439.64	514.37	657.55	73.78	86.14	100.97	128.87
C	Shasta (SV)	Summer	2035	379.16	439.67	514.35	657.77	73.79	86.17	100.97	128.96
C	Shasta (SV)	Winter	2010	339.28	401.24	467.18	582.88	74.15	98.71	101.24	125.46
C	Shasta (SV)	Winter	2011	339.28	400.06	466.34	583.46	73.97	96.26	101.09	125.49
C	Shasta (SV)	Winter	2012	339.31	399.10	465.69	584.12	73.79	94.20	101.00	125.59
C	Shasta (SV)	Winter	2013	339.39	398.29	465.18	584.84	73.67	92.45	100.93	125.73
C	Shasta (SV)	Winter	2014	339.47	397.49	464.78	585.56	73.54	90.71	100.85	125.88
C	Shasta (SV)	Winter	2015	339.58	396.87	464.45	586.30	73.48	89.34	100.76	126.07
C	Shasta (SV)	Winter	2016	339.72	396.38	464.21	587.03	73.48	88.23	100.75	126.28
C	Shasta (SV)	Winter	2017	339.82	395.81	464.01	587.71	73.46	86.94	100.68	126.51
C	Shasta (SV)	Winter	2018	339.89	395.36	463.85	588.30	73.42	85.93	100.65	126.73
C	Shasta (SV)	Winter	2019	339.97	395.23	463.73	588.83	73.43	85.58	100.66	126.93
C	Shasta (SV)	Winter	2020	340.04	395.15	463.64	589.32	73.52	85.46	100.71	127.12
C	Shasta (SV)	Winter	2021	340.09	395.20	463.55	589.61	73.59	85.54	100.78	127.19
C	Shasta (SV)	Winter	2022	340.12	395.24	463.47	589.84	73.64	85.60	100.83	127.24
C	Shasta (SV)	Winter	2023	340.11	395.29	463.39	590.01	73.67	85.66	100.87	127.40
C	Shasta (SV)	Winter	2024	340.09	395.32	463.31	590.15	73.69	85.71	100.90	127.56
C	Shasta (SV)	Winter	2025	340.08	395.35	463.25	590.34	73.71	85.77	100.93	127.72
C	Shasta (SV)	Winter	2026	340.10	395.41	463.18	590.55	73.73	85.83	100.95	127.89
C	Shasta (SV)	Winter	2027	340.11	395.45	463.10	590.76	73.74	85.87	100.96	128.04
C	Shasta (SV)	Winter	2028	340.11	395.50	463.03	590.97	73.75	85.92	100.97	128.18
C	Shasta (SV)	Winter	2029	340.10	395.56	462.95	591.18	73.76	85.96	100.97	128.31
C	Shasta (SV)	Winter	2030	340.09	395.62	462.87	591.39	73.76	86.00	100.96	128.43
C	Shasta (SV)	Winter	2031	340.09	395.67	462.82	591.61	73.77	86.04	100.96	128.55
C	Shasta (SV)	Winter	2032	340.09	395.73	462.78	591.84	73.78	86.08	100.96	128.67
C	Shasta (SV)	Winter	2033	340.08	395.78	462.74	592.04	73.78	86.11	100.97	128.77
C	Shasta (SV)	Winter	2034	340.08	395.82	462.71	592.22	73.78	86.14	100.97	128.87
C	Shasta (SV)	Winter	2035	340.07	395.85	462.69	592.38	73.79	86.17	100.97	128.96

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Sierra (MC)	Annual	2010	394.31	460.95	537.66	667.48	75.24	95.17	101.22	124.75
C	Sierra (MC)	Annual	2011	393.91	460.02	536.89	668.54	74.99	93.66	101.08	124.84
C	Sierra (MC)	Annual	2012	393.71	459.20	536.28	669.74	74.85	92.36	100.98	124.99
C	Sierra (MC)	Annual	2013	393.19	458.30	535.81	670.93	74.35	90.80	100.93	125.18
C	Sierra (MC)	Annual	2014	393.12	457.50	535.44	672.21	74.25	89.29	100.90	125.31
C	Sierra (MC)	Annual	2015	393.22	457.02	535.14	673.47	74.30	88.37	100.90	125.53
C	Sierra (MC)	Annual	2016	393.24	456.69	534.90	674.71	74.27	87.71	100.92	125.76
C	Sierra (MC)	Annual	2017	393.16	456.21	534.68	675.79	74.16	86.66	100.76	126.04
C	Sierra (MC)	Annual	2018	393.07	456.05	534.52	676.75	74.05	86.33	100.74	126.28
C	Sierra (MC)	Annual	2019	393.02	455.89	534.40	677.53	73.99	85.96	100.82	126.51
C	Sierra (MC)	Annual	2020	392.91	455.79	534.29	678.12	74.03	85.85	100.87	126.76
C	Sierra (MC)	Annual	2021	392.57	455.71	534.18	678.52	73.98	85.83	100.91	126.84
C	Sierra (MC)	Annual	2022	392.58	455.55	534.05	678.95	74.03	85.77	100.92	127.02
C	Sierra (MC)	Annual	2023	392.31	455.42	533.96	679.25	74.00	85.73	100.95	127.23
C	Sierra (MC)	Annual	2024	392.00	455.21	533.85	679.49	73.94	85.67	100.96	127.42
C	Sierra (MC)	Annual	2025	391.81	455.26	533.79	679.66	73.93	85.73	100.98	127.58
C	Sierra (MC)	Annual	2026	391.81	455.38	533.71	679.96	73.95	85.81	101.00	127.77
C	Sierra (MC)	Annual	2027	391.82	455.49	533.63	680.24	73.96	85.89	101.01	127.94
C	Sierra (MC)	Annual	2028	391.79	455.60	533.57	680.51	73.97	85.96	101.02	128.10
C	Sierra (MC)	Annual	2029	391.77	455.71	533.49	680.80	73.97	86.02	101.01	128.25
C	Sierra (MC)	Annual	2030	391.72	455.81	533.43	681.08	73.97	86.09	101.01	128.39
C	Sierra (MC)	Annual	2031	391.70	455.92	533.38	681.39	73.98	86.15	101.01	128.53
C	Sierra (MC)	Annual	2032	391.69	456.01	533.35	681.70	73.98	86.20	101.01	128.66
C	Sierra (MC)	Annual	2033	391.68	456.10	533.32	681.99	73.99	86.25	101.01	128.78
C	Sierra (MC)	Annual	2034	391.67	456.18	533.30	682.24	73.99	86.30	101.02	128.89
C	Sierra (MC)	Annual	2035	391.66	456.24	533.28	682.46	73.99	86.34	101.02	129.00
C	Sierra (MC)	Summer	2010	417.17	483.16	568.10	703.78	75.24	95.17	101.22	124.75
C	Sierra (MC)	Summer	2011	417.07	483.15	567.61	705.13	74.99	93.66	101.08	124.84
C	Sierra (MC)	Summer	2012	417.11	483.07	567.23	706.66	74.85	92.36	100.98	124.99
C	Sierra (MC)	Summer	2013	416.81	482.81	566.93	708.19	74.35	90.80	100.93	125.18
C	Sierra (MC)	Summer	2014	416.85	482.52	566.72	709.83	74.25	89.29	100.90	125.31
C	Sierra (MC)	Summer	2015	417.03	482.41	566.56	711.46	74.30	88.37	100.90	125.53
C	Sierra (MC)	Summer	2016	417.11	482.32	566.42	713.05	74.27	87.71	100.92	125.76
C	Sierra (MC)	Summer	2017	417.07	482.13	566.32	714.42	74.16	86.66	100.76	126.04
C	Sierra (MC)	Summer	2018	416.99	482.09	566.20	715.64	74.05	86.33	100.74	126.28
C	Sierra (MC)	Summer	2019	416.95	482.09	566.09	716.63	73.99	85.96	100.82	126.51
C	Sierra (MC)	Summer	2020	416.84	482.12	565.99	717.36	74.03	85.85	100.87	126.76
C	Sierra (MC)	Summer	2021	416.51	482.14	565.90	717.92	73.98	85.83	100.91	126.84
C	Sierra (MC)	Summer	2022	416.51	482.11	565.79	718.46	74.03	85.77	100.92	127.02
C	Sierra (MC)	Summer	2023	416.26	482.09	565.70	718.85	74.00	85.73	100.95	127.23
C	Sierra (MC)	Summer	2024	415.97	482.00	565.61	719.16	73.94	85.67	100.96	127.42
C	Sierra (MC)	Summer	2025	415.79	482.07	565.55	719.41	73.93	85.73	100.98	127.58
C	Sierra (MC)	Summer	2026	415.80	482.23	565.48	719.74	73.95	85.81	101.00	127.77
C	Sierra (MC)	Summer	2027	415.82	482.38	565.42	720.07	73.96	85.89	101.01	127.94
C	Sierra (MC)	Summer	2028	415.81	482.52	565.37	720.41	73.97	85.96	101.02	128.10
C	Sierra (MC)	Summer	2029	415.80	482.68	565.30	720.76	73.97	86.02	101.01	128.25
C	Sierra (MC)	Summer	2030	415.77	482.82	565.25	721.10	73.97	86.09	101.01	128.39
C	Sierra (MC)	Summer	2031	415.77	482.97	565.22	721.46	73.98	86.15	101.01	128.53
C	Sierra (MC)	Summer	2032	415.76	483.08	565.20	721.82	73.98	86.20	101.01	128.66
C	Sierra (MC)	Summer	2033	415.75	483.19	565.18	722.16	73.99	86.25	101.01	128.78
C	Sierra (MC)	Summer	2034	415.74	483.29	565.16	722.46	73.99	86.30	101.02	128.89
C	Sierra (MC)	Summer	2035	415.73	483.36	565.14	722.72	73.99	86.34	101.02	129.00
C	Sierra (MC)	Winter	2010	390.52	457.27	532.61	661.46	75.24	95.17	101.22	124.75
C	Sierra (MC)	Winter	2011	390.06	456.18	531.79	662.48	74.99	93.66	101.08	124.84

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Sierra (MC)	Winter	2012	389.83	455.24	531.15	663.62	74.85	92.36	100.98	124.99
C	Sierra (MC)	Winter	2013	389.27	454.24	530.65	664.75	74.35	90.80	100.93	125.18
C	Sierra (MC)	Winter	2014	389.18	453.35	530.26	665.97	74.25	89.29	100.90	125.31
C	Sierra (MC)	Winter	2015	389.27	452.81	529.93	667.17	74.30	88.37	100.90	125.53
C	Sierra (MC)	Winter	2016	389.28	452.44	529.67	668.35	74.27	87.71	100.92	125.76
C	Sierra (MC)	Winter	2017	389.20	451.91	529.44	669.38	74.16	86.66	100.76	126.04
C	Sierra (MC)	Winter	2018	389.10	451.73	529.27	670.31	74.05	86.33	100.74	126.28
C	Sierra (MC)	Winter	2019	389.05	451.54	529.14	671.05	73.99	85.96	100.82	126.51
C	Sierra (MC)	Winter	2020	388.94	451.43	529.03	671.61	74.03	85.85	100.87	126.76
C	Sierra (MC)	Winter	2021	388.60	451.33	528.92	671.99	73.98	85.83	100.91	126.84
C	Sierra (MC)	Winter	2022	388.61	451.15	528.78	672.40	74.03	85.77	100.92	127.02
C	Sierra (MC)	Winter	2023	388.34	451.00	528.70	672.69	74.00	85.73	100.95	127.23
C	Sierra (MC)	Winter	2024	388.02	450.77	528.58	672.91	73.94	85.67	100.96	127.42
C	Sierra (MC)	Winter	2025	387.84	450.82	528.52	673.07	73.93	85.73	100.98	127.58
C	Sierra (MC)	Winter	2026	387.83	450.93	528.44	673.36	73.95	85.81	101.00	127.77
C	Sierra (MC)	Winter	2027	387.85	451.03	528.36	673.63	73.96	85.89	101.01	127.94
C	Sierra (MC)	Winter	2028	387.81	451.14	528.30	673.89	73.97	85.96	101.02	128.10
C	Sierra (MC)	Winter	2029	387.79	451.24	528.22	674.17	73.97	86.02	101.01	128.25
C	Sierra (MC)	Winter	2030	387.74	451.33	528.15	674.45	73.97	86.09	101.01	128.39
C	Sierra (MC)	Winter	2031	387.71	451.44	528.10	674.74	73.98	86.15	101.01	128.53
C	Sierra (MC)	Winter	2032	387.70	451.52	528.07	675.05	73.98	86.20	101.01	128.66
C	Sierra (MC)	Winter	2033	387.69	451.61	528.04	675.33	73.99	86.25	101.01	128.78
C	Sierra (MC)	Winter	2034	387.68	451.68	528.01	675.57	73.99	86.30	101.02	128.89
C	Sierra (MC)	Winter	2035	387.67	451.74	527.99	675.79	73.99	86.34	101.02	129.00
C	Siskiyou (NEP)	Annual	2010	378.80	444.35	519.95	649.03	74.19	93.56	102.24	125.12
C	Siskiyou (NEP)	Annual	2011	378.73	443.52	519.19	649.67	74.04	92.11	102.01	125.20
C	Siskiyou (NEP)	Annual	2012	378.70	442.82	518.58	650.49	73.88	90.89	101.82	125.30
C	Siskiyou (NEP)	Annual	2013	378.69	442.25	518.06	651.35	73.68	89.89	101.54	125.46
C	Siskiyou (NEP)	Annual	2014	378.76	441.72	517.67	652.21	73.60	88.92	101.36	125.61
C	Siskiyou (NEP)	Annual	2015	378.86	441.26	517.36	653.09	73.55	88.04	101.18	125.82
C	Siskiyou (NEP)	Annual	2016	378.97	440.88	517.10	653.95	73.55	87.27	101.06	126.05
C	Siskiyou (NEP)	Annual	2017	379.02	440.51	516.88	654.72	73.49	86.50	100.90	126.29
C	Siskiyou (NEP)	Annual	2018	379.03	440.25	516.71	655.39	73.41	85.98	100.79	126.52
C	Siskiyou (NEP)	Annual	2019	379.07	440.11	516.58	655.97	73.39	85.68	100.76	126.74
C	Siskiyou (NEP)	Annual	2020	379.14	439.98	516.47	656.46	73.48	85.54	100.80	126.95
C	Siskiyou (NEP)	Annual	2021	379.12	439.88	516.35	656.80	73.52	85.53	100.84	127.11
C	Siskiyou (NEP)	Annual	2022	379.05	439.72	516.23	657.04	73.53	85.50	100.87	127.20
C	Siskiyou (NEP)	Annual	2023	378.90	439.60	516.12	657.19	73.51	85.48	100.89	127.36
C	Siskiyou (NEP)	Annual	2024	378.77	439.53	516.02	657.33	73.48	85.50	100.91	127.52
C	Siskiyou (NEP)	Annual	2025	378.71	439.58	515.95	657.44	73.49	85.56	100.93	127.67
C	Siskiyou (NEP)	Annual	2026	378.72	439.71	515.87	657.62	73.51	85.65	100.95	127.82
C	Siskiyou (NEP)	Annual	2027	378.72	439.84	515.80	657.81	73.52	85.73	100.97	127.97
C	Siskiyou (NEP)	Annual	2028	378.72	439.97	515.74	658.01	73.53	85.81	100.98	128.11
C	Siskiyou (NEP)	Annual	2029	378.70	440.10	515.67	658.20	73.53	85.88	100.98	128.23
C	Siskiyou (NEP)	Annual	2030	378.68	440.21	515.58	658.40	73.54	85.95	100.97	128.36
C	Siskiyou (NEP)	Annual	2031	378.67	440.34	515.53	658.68	73.54	86.01	100.97	128.49
C	Siskiyou (NEP)	Annual	2032	378.67	440.44	515.49	658.96	73.55	86.07	100.98	128.62
C	Siskiyou (NEP)	Annual	2033	378.66	440.54	515.46	659.20	73.55	86.13	100.98	128.73
C	Siskiyou (NEP)	Annual	2034	378.65	440.63	515.42	659.41	73.56	86.18	100.98	128.83
C	Siskiyou (NEP)	Annual	2035	378.64	440.70	515.40	659.60	73.56	86.22	100.99	128.93
C	Siskiyou (NEP)	Summer	2010	393.78	458.70	539.46	673.02	74.19	93.56	102.24	125.12
C	Siskiyou (NEP)	Summer	2011	393.90	458.44	538.93	673.75	74.04	92.11	102.01	125.20
C	Siskiyou (NEP)	Summer	2012	394.02	458.19	538.51	674.72	73.88	90.89	101.82	125.30
C	Siskiyou (NEP)	Summer	2013	394.12	457.97	538.18	675.77	73.68	89.89	101.54	125.46

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Siskiyou (NEP)	Summer	2014	394.26	457.73	537.93	676.82	73.60	88.92	101.36	125.61
C	Siskiyou (NEP)	Summer	2015	394.41	457.52	537.74	677.91	73.55	88.04	101.18	125.82
C	Siskiyou (NEP)	Summer	2016	394.55	457.35	537.58	678.96	73.55	87.27	101.06	126.05
C	Siskiyou (NEP)	Summer	2017	394.62	457.17	537.43	679.91	73.49	86.50	100.90	126.29
C	Siskiyou (NEP)	Summer	2018	394.63	457.04	537.29	680.74	73.41	85.98	100.79	126.52
C	Siskiyou (NEP)	Summer	2019	394.66	457.01	537.18	681.46	73.39	85.68	100.76	126.74
C	Siskiyou (NEP)	Summer	2020	394.72	456.98	537.09	682.06	73.48	85.54	100.80	126.95
C	Siskiyou (NEP)	Summer	2021	394.69	456.95	536.97	682.49	73.52	85.53	100.84	127.11
C	Siskiyou (NEP)	Summer	2022	394.62	456.88	536.86	682.82	73.53	85.50	100.87	127.20
C	Siskiyou (NEP)	Summer	2023	394.48	456.83	536.76	683.03	73.51	85.48	100.89	127.36
C	Siskiyou (NEP)	Summer	2024	394.35	456.84	536.67	683.22	73.48	85.50	100.91	127.52
C	Siskiyou (NEP)	Summer	2025	394.30	456.94	536.61	683.38	73.49	85.56	100.93	127.67
C	Siskiyou (NEP)	Summer	2026	394.32	457.11	536.53	683.57	73.51	85.65	100.95	127.82
C	Siskiyou (NEP)	Summer	2027	394.33	457.28	536.46	683.78	73.52	85.73	100.97	127.97
C	Siskiyou (NEP)	Summer	2028	394.34	457.44	536.40	684.00	73.53	85.81	100.98	128.11
C	Siskiyou (NEP)	Summer	2029	394.33	457.61	536.34	684.23	73.53	85.88	100.98	128.23
C	Siskiyou (NEP)	Summer	2030	394.32	457.77	536.26	684.47	73.54	85.95	100.97	128.36
C	Siskiyou (NEP)	Summer	2031	394.32	457.91	536.23	684.79	73.54	86.01	100.97	128.49
C	Siskiyou (NEP)	Summer	2032	394.32	458.04	536.21	685.10	73.55	86.07	100.98	128.62
C	Siskiyou (NEP)	Summer	2033	394.31	458.15	536.18	685.38	73.55	86.13	100.98	128.73
C	Siskiyou (NEP)	Summer	2034	394.30	458.25	536.16	685.63	73.56	86.18	100.98	128.83
C	Siskiyou (NEP)	Summer	2035	394.29	458.31	536.14	685.85	73.56	86.22	100.99	128.93
C	Siskiyou (NEP)	Winter	2010	373.71	439.47	513.32	640.88	74.19	93.56	102.24	125.12
C	Siskiyou (NEP)	Winter	2011	373.57	438.45	512.48	641.49	74.04	92.11	102.01	125.20
C	Siskiyou (NEP)	Winter	2012	373.50	437.60	511.81	642.25	73.88	90.89	101.82	125.30
C	Siskiyou (NEP)	Winter	2013	373.45	436.91	511.23	643.06	73.68	89.89	101.54	125.46
C	Siskiyou (NEP)	Winter	2014	373.49	436.28	510.79	643.86	73.60	88.92	101.36	125.61
C	Siskiyou (NEP)	Winter	2015	373.58	435.74	510.43	644.66	73.55	88.04	101.18	125.82
C	Siskiyou (NEP)	Winter	2016	373.68	435.28	510.15	645.45	73.55	87.27	101.06	126.05
C	Siskiyou (NEP)	Winter	2017	373.73	434.85	509.90	646.16	73.49	86.50	100.90	126.29
C	Siskiyou (NEP)	Winter	2018	373.74	434.55	509.71	646.78	73.41	85.98	100.79	126.52
C	Siskiyou (NEP)	Winter	2019	373.78	434.37	509.58	647.31	73.39	85.68	100.76	126.74
C	Siskiyou (NEP)	Winter	2020	373.85	434.21	509.47	647.77	73.48	85.54	100.80	126.95
C	Siskiyou (NEP)	Winter	2021	373.83	434.08	509.34	648.08	73.52	85.53	100.84	127.11
C	Siskiyou (NEP)	Winter	2022	373.76	433.89	509.22	648.29	73.53	85.50	100.87	127.20
C	Siskiyou (NEP)	Winter	2023	373.61	433.74	509.10	648.41	73.51	85.48	100.89	127.36
C	Siskiyou (NEP)	Winter	2024	373.47	433.65	509.00	648.53	73.48	85.50	100.91	127.52
C	Siskiyou (NEP)	Winter	2025	373.42	433.68	508.93	648.63	73.49	85.56	100.93	127.67
C	Siskiyou (NEP)	Winter	2026	373.42	433.81	508.85	648.81	73.51	85.65	100.95	127.82
C	Siskiyou (NEP)	Winter	2027	373.42	433.92	508.79	648.99	73.52	85.73	100.97	127.97
C	Siskiyou (NEP)	Winter	2028	373.41	434.03	508.72	649.17	73.53	85.81	100.98	128.11
C	Siskiyou (NEP)	Winter	2029	373.39	434.14	508.65	649.35	73.53	85.88	100.98	128.23
C	Siskiyou (NEP)	Winter	2030	373.36	434.25	508.56	649.55	73.54	85.95	100.97	128.36
C	Siskiyou (NEP)	Winter	2031	373.36	434.37	508.50	649.81	73.54	86.01	100.97	128.49
C	Siskiyou (NEP)	Winter	2032	373.35	434.47	508.45	650.08	73.55	86.07	100.98	128.62
C	Siskiyou (NEP)	Winter	2033	373.34	434.56	508.42	650.30	73.55	86.13	100.98	128.73
C	Siskiyou (NEP)	Winter	2034	373.34	434.64	508.38	650.51	73.56	86.18	100.98	128.83
C	Siskiyou (NEP)	Winter	2035	373.33	434.71	508.36	650.69	73.56	86.22	100.99	128.93
C	Solano (SF)	Annual	2010	341.84	392.72	467.77	590.01	73.22	84.56	99.66	124.82
C	Solano (SF)	Annual	2011	342.07	393.39	467.67	590.47	73.26	84.38	99.73	124.98
C	Solano (SF)	Annual	2012	342.31	394.02	467.59	591.01	73.28	84.33	99.81	125.17
C	Solano (SF)	Annual	2013	342.55	394.58	467.54	591.61	73.32	84.30	99.90	125.38
C	Solano (SF)	Annual	2014	342.76	395.08	467.51	592.23	73.35	84.27	99.99	125.61
C	Solano (SF)	Annual	2015	342.97	395.55	467.49	592.87	73.38	84.28	100.07	125.85

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Solano (SF)	Annual	2016	343.17	395.96	467.48	593.49	73.44	84.27	100.15	126.09
C	Solano (SF)	Annual	2017	343.32	396.33	467.47	594.08	73.48	84.28	100.20	126.34
C	Solano (SF)	Annual	2018	343.45	396.64	467.47	594.62	73.51	84.28	100.28	126.59
C	Solano (SF)	Annual	2019	343.58	396.96	467.47	595.08	73.57	84.39	100.35	126.82
C	Solano (SF)	Annual	2020	343.67	397.24	467.47	595.50	73.66	84.54	100.44	127.04
C	Solano (SF)	Annual	2021	343.75	397.51	467.47	595.82	73.74	84.71	100.53	127.19
C	Solano (SF)	Annual	2022	343.79	397.75	467.46	596.09	73.80	84.87	100.61	127.33
C	Solano (SF)	Annual	2023	343.81	397.93	467.45	596.30	73.84	85.01	100.68	127.49
C	Solano (SF)	Annual	2024	343.81	398.09	467.44	596.45	73.86	85.13	100.74	127.65
C	Solano (SF)	Annual	2025	343.82	398.22	467.44	596.62	73.88	85.24	100.79	127.80
C	Solano (SF)	Annual	2026	343.84	398.37	467.43	596.79	73.91	85.35	100.83	127.95
C	Solano (SF)	Annual	2027	343.85	398.52	467.42	596.95	73.92	85.44	100.86	128.08
C	Solano (SF)	Annual	2028	343.86	398.66	467.41	597.12	73.93	85.53	100.88	128.20
C	Solano (SF)	Annual	2029	343.86	398.80	467.39	597.29	73.94	85.62	100.90	128.31
C	Solano (SF)	Annual	2030	343.86	398.94	467.38	597.46	73.95	85.70	100.91	128.42
C	Solano (SF)	Annual	2031	343.86	399.08	467.38	597.67	73.95	85.78	100.93	128.53
C	Solano (SF)	Annual	2032	343.86	399.22	467.37	597.88	73.96	85.86	100.93	128.64
C	Solano (SF)	Annual	2033	343.86	399.33	467.36	598.08	73.96	85.93	100.94	128.74
C	Solano (SF)	Annual	2034	343.86	399.44	467.35	598.25	73.97	86.00	100.95	128.83
C	Solano (SF)	Annual	2035	343.85	399.53	467.34	598.40	73.97	86.05	100.95	128.92
C	Solano (SF)	Summer	2010	368.80	420.88	503.66	634.87	73.22	84.56	99.66	124.82
C	Solano (SF)	Summer	2011	369.20	422.00	503.59	635.19	73.26	84.38	99.73	124.98
C	Solano (SF)	Summer	2012	369.56	422.99	503.57	635.69	73.28	84.33	99.81	125.17
C	Solano (SF)	Summer	2013	369.90	423.83	503.59	636.34	73.32	84.30	99.90	125.38
C	Solano (SF)	Summer	2014	370.19	424.57	503.65	637.06	73.35	84.27	99.99	125.61
C	Solano (SF)	Summer	2015	370.46	425.22	503.73	637.86	73.38	84.28	100.07	125.85
C	Solano (SF)	Summer	2016	370.71	425.78	503.82	638.66	73.44	84.27	100.15	126.09
C	Solano (SF)	Summer	2017	370.89	426.29	503.89	639.43	73.48	84.28	100.20	126.34
C	Solano (SF)	Summer	2018	371.03	426.70	503.92	640.11	73.51	84.28	100.28	126.59
C	Solano (SF)	Summer	2019	371.15	427.11	503.94	640.69	73.57	84.39	100.35	126.82
C	Solano (SF)	Summer	2020	371.25	427.47	503.95	641.22	73.66	84.54	100.44	127.04
C	Solano (SF)	Summer	2021	371.33	427.82	503.93	641.62	73.74	84.71	100.53	127.19
C	Solano (SF)	Summer	2022	371.37	428.13	503.90	641.96	73.80	84.87	100.61	127.33
C	Solano (SF)	Summer	2023	371.39	428.38	503.88	642.20	73.84	85.01	100.68	127.49
C	Solano (SF)	Summer	2024	371.40	428.59	503.87	642.36	73.86	85.13	100.74	127.65
C	Solano (SF)	Summer	2025	371.41	428.78	503.86	642.52	73.88	85.24	100.79	127.80
C	Solano (SF)	Summer	2026	371.43	428.97	503.85	642.69	73.91	85.35	100.83	127.95
C	Solano (SF)	Summer	2027	371.44	429.16	503.84	642.85	73.92	85.44	100.86	128.08
C	Solano (SF)	Summer	2028	371.46	429.35	503.83	643.02	73.93	85.53	100.88	128.20
C	Solano (SF)	Summer	2029	371.46	429.54	503.82	643.19	73.94	85.62	100.90	128.31
C	Solano (SF)	Summer	2030	371.47	429.73	503.81	643.37	73.95	85.70	100.91	128.42
C	Solano (SF)	Summer	2031	371.47	429.92	503.80	643.63	73.95	85.78	100.93	128.53
C	Solano (SF)	Summer	2032	371.47	430.10	503.78	643.88	73.96	85.86	100.93	128.64
C	Solano (SF)	Summer	2033	371.47	430.24	503.77	644.12	73.96	85.93	100.94	128.74
C	Solano (SF)	Summer	2034	371.47	430.38	503.77	644.34	73.97	86.00	100.95	128.83
C	Solano (SF)	Summer	2035	371.47	430.48	503.76	644.54	73.97	86.05	100.95	128.92
C	Solano (SF)	Winter	2010	336.93	387.60	461.24	581.85	73.22	84.56	99.66	124.82
C	Solano (SF)	Winter	2011	337.14	388.18	461.13	582.33	73.26	84.38	99.73	124.98
C	Solano (SF)	Winter	2012	337.35	388.75	461.05	582.88	73.28	84.33	99.81	125.17
C	Solano (SF)	Winter	2013	337.57	389.26	460.99	583.48	73.32	84.30	99.90	125.38
C	Solano (SF)	Winter	2014	337.77	389.72	460.94	584.07	73.35	84.27	99.99	125.61
C	Solano (SF)	Winter	2015	337.97	390.15	460.90	584.69	73.38	84.28	100.07	125.85
C	Solano (SF)	Winter	2016	338.16	390.53	460.87	585.28	73.44	84.27	100.15	126.09
C	Solano (SF)	Winter	2017	338.31	390.89	460.85	585.84	73.48	84.28	100.20	126.34

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Solano (SF)	Winter	2018	338.44	391.17	460.84	586.34	73.51	84.28	100.28	126.59
C	Solano (SF)	Winter	2019	338.56	391.48	460.84	586.78	73.57	84.39	100.35	126.82
C	Solano (SF)	Winter	2020	338.66	391.75	460.83	587.18	73.66	84.54	100.44	127.04
C	Solano (SF)	Winter	2021	338.74	392.00	460.84	587.49	73.74	84.71	100.53	127.19
C	Solano (SF)	Winter	2022	338.78	392.22	460.83	587.75	73.80	84.87	100.61	127.33
C	Solano (SF)	Winter	2023	338.79	392.40	460.83	587.95	73.84	85.01	100.68	127.49
C	Solano (SF)	Winter	2024	338.79	392.54	460.82	588.10	73.86	85.13	100.74	127.65
C	Solano (SF)	Winter	2025	338.80	392.67	460.81	588.27	73.88	85.24	100.79	127.80
C	Solano (SF)	Winter	2026	338.82	392.81	460.80	588.44	73.91	85.35	100.83	127.95
C	Solano (SF)	Winter	2027	338.84	392.94	460.79	588.61	73.92	85.44	100.86	128.08
C	Solano (SF)	Winter	2028	338.84	393.08	460.78	588.77	73.93	85.53	100.88	128.20
C	Solano (SF)	Winter	2029	338.84	393.21	460.77	588.94	73.94	85.62	100.90	128.31
C	Solano (SF)	Winter	2030	338.84	393.34	460.76	589.11	73.95	85.70	100.91	128.42
C	Solano (SF)	Winter	2031	338.84	393.47	460.75	589.31	73.95	85.78	100.93	128.53
C	Solano (SF)	Winter	2032	338.84	393.60	460.74	589.52	73.96	85.86	100.93	128.64
C	Solano (SF)	Winter	2033	338.84	393.71	460.74	589.70	73.96	85.93	100.94	128.74
C	Solano (SF)	Winter	2034	338.83	393.81	460.73	589.87	73.97	86.00	100.95	128.83
C	Solano (SF)	Winter	2035	338.83	393.90	460.72	590.01	73.97	86.05	100.95	128.92
C	Solano (SV)	Annual	2010	361.72	414.56	494.70	624.60	73.68	84.80	100.13	125.07
C	Solano (SV)	Annual	2011	361.94	415.33	494.60	625.06	73.63	84.64	100.12	125.23
C	Solano (SV)	Annual	2012	362.12	416.01	494.53	625.61	73.53	84.49	100.15	125.40
C	Solano (SV)	Annual	2013	362.32	416.57	494.48	626.21	73.46	84.35	100.21	125.60
C	Solano (SV)	Annual	2014	362.52	417.08	494.45	626.83	73.42	84.23	100.22	125.81
C	Solano (SV)	Annual	2015	362.70	417.55	494.44	627.46	73.39	84.20	100.24	126.04
C	Solano (SV)	Annual	2016	371.75	428.17	506.54	643.44	73.44	84.21	100.30	126.28
C	Solano (SV)	Annual	2017	371.90	428.52	506.54	644.06	73.44	84.13	100.29	126.51
C	Solano (SV)	Annual	2018	372.04	428.84	506.54	644.61	73.47	84.18	100.31	126.74
C	Solano (SV)	Annual	2019	372.18	429.19	506.54	645.09	73.51	84.31	100.36	126.94
C	Solano (SV)	Annual	2020	372.30	429.49	506.54	645.54	73.61	84.45	100.45	127.14
C	Solano (SV)	Annual	2021	372.41	429.77	506.54	645.87	73.70	84.61	100.54	127.29
C	Solano (SV)	Annual	2022	372.46	430.00	506.53	646.17	73.76	84.76	100.62	127.44
C	Solano (SV)	Annual	2023	372.49	430.19	506.52	646.37	73.80	84.88	100.69	127.60
C	Solano (SV)	Annual	2024	372.51	430.37	506.51	646.51	73.83	85.01	100.74	127.74
C	Solano (SV)	Annual	2025	372.53	430.53	506.49	646.67	73.86	85.11	100.79	127.89
C	Solano (SV)	Annual	2026	375.02	433.55	509.84	651.12	73.88	85.22	100.83	128.03
C	Solano (SV)	Annual	2027	375.04	433.71	509.83	651.28	73.90	85.31	100.86	128.15
C	Solano (SV)	Annual	2028	375.06	433.87	509.82	651.44	73.91	85.40	100.88	128.26
C	Solano (SV)	Annual	2029	375.06	434.03	509.81	651.60	73.92	85.48	100.90	128.37
C	Solano (SV)	Annual	2030	375.06	434.19	509.80	651.77	73.92	85.56	100.92	128.47
C	Solano (SV)	Annual	2031	375.06	434.35	509.79	651.99	73.93	85.64	100.93	128.58
C	Solano (SV)	Annual	2032	375.06	434.50	509.79	652.21	73.93	85.71	100.94	128.68
C	Solano (SV)	Annual	2033	375.06	434.63	509.78	652.41	73.94	85.78	100.94	128.78
C	Solano (SV)	Annual	2034	375.06	434.74	509.77	652.59	73.94	85.84	100.95	128.87
C	Solano (SV)	Annual	2035	375.06	434.82	509.76	652.75	73.94	85.90	100.96	128.95
C	Solano (SV)	Summer	2010	396.63	451.00	541.05	682.70	73.68	84.80	100.13	125.07
C	Solano (SV)	Summer	2011	397.01	452.35	540.98	682.98	73.63	84.64	100.12	125.23
C	Solano (SV)	Summer	2012	397.34	453.51	540.96	683.47	73.53	84.49	100.15	125.40
C	Solano (SV)	Summer	2013	397.66	454.46	540.99	684.11	73.46	84.35	100.21	125.60
C	Solano (SV)	Summer	2014	397.96	455.28	541.09	684.86	73.42	84.23	100.22	125.81
C	Solano (SV)	Summer	2015	398.22	455.97	541.22	685.68	73.39	84.20	100.24	126.04
C	Solano (SV)	Summer	2016	408.16	467.64	554.55	703.24	73.44	84.21	100.30	126.28
C	Solano (SV)	Summer	2017	408.35	468.15	554.68	704.08	73.44	84.13	100.29	126.51
C	Solano (SV)	Summer	2018	408.51	468.56	554.75	704.81	73.47	84.18	100.31	126.74
C	Solano (SV)	Summer	2019	408.65	469.03	554.77	705.45	73.51	84.31	100.36	126.94

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Solano (SV)	Summer	2020	408.77	469.44	554.78	706.04	73.61	84.45	100.45	127.14
C	Solano (SV)	Summer	2021	408.88	469.80	554.77	706.47	73.70	84.61	100.54	127.29
C	Solano (SV)	Summer	2022	408.94	470.12	554.74	706.85	73.76	84.76	100.62	127.44
C	Solano (SV)	Summer	2023	408.97	470.39	554.71	707.11	73.80	84.88	100.69	127.60
C	Solano (SV)	Summer	2024	409.00	470.66	554.66	707.27	73.83	85.01	100.74	127.74
C	Solano (SV)	Summer	2025	409.02	470.89	554.62	707.42	73.86	85.11	100.79	127.89
C	Solano (SV)	Summer	2026	411.74	474.21	558.28	712.22	73.88	85.22	100.83	128.03
C	Solano (SV)	Summer	2027	411.77	474.42	558.28	712.36	73.90	85.31	100.86	128.15
C	Solano (SV)	Summer	2028	411.78	474.63	558.28	712.51	73.91	85.40	100.88	128.26
C	Solano (SV)	Summer	2029	411.79	474.86	558.27	712.66	73.92	85.48	100.90	128.37
C	Solano (SV)	Summer	2030	411.80	475.08	558.27	712.84	73.92	85.56	100.92	128.47
C	Solano (SV)	Summer	2031	411.79	475.31	558.26	713.12	73.93	85.64	100.93	128.58
C	Solano (SV)	Summer	2032	411.79	475.50	558.25	713.41	73.93	85.71	100.94	128.68
C	Solano (SV)	Summer	2033	411.79	475.67	558.24	713.67	73.94	85.78	100.94	128.78
C	Solano (SV)	Summer	2034	411.79	475.81	558.23	713.92	73.94	85.84	100.95	128.87
C	Solano (SV)	Summer	2035	411.78	475.92	558.22	714.15	73.94	85.90	100.96	128.95
C	Solano (SV)	Winter	2010	353.45	405.93	483.73	610.84	73.68	84.80	100.13	125.07
C	Solano (SV)	Winter	2011	353.63	406.57	483.61	611.35	73.63	84.64	100.12	125.23
C	Solano (SV)	Winter	2012	353.78	407.13	483.53	611.91	73.53	84.49	100.15	125.40
C	Solano (SV)	Winter	2013	353.95	407.60	483.47	612.50	73.46	84.35	100.21	125.60
C	Solano (SV)	Winter	2014	354.13	408.03	483.41	613.09	73.42	84.23	100.22	125.81
C	Solano (SV)	Winter	2015	354.29	408.45	483.37	613.68	73.39	84.20	100.24	126.04
C	Solano (SV)	Winter	2016	363.12	418.81	495.16	629.27	73.44	84.21	100.30	126.28
C	Solano (SV)	Winter	2017	363.26	419.12	495.13	629.83	73.44	84.13	100.29	126.51
C	Solano (SV)	Winter	2018	363.40	419.42	495.11	630.33	73.47	84.18	100.31	126.74
C	Solano (SV)	Winter	2019	363.53	419.75	495.10	630.78	73.51	84.31	100.36	126.94
C	Solano (SV)	Winter	2020	363.65	420.02	495.10	631.20	73.61	84.45	100.45	127.14
C	Solano (SV)	Winter	2021	363.76	420.27	495.11	631.50	73.70	84.61	100.54	127.29
C	Solano (SV)	Winter	2022	363.81	420.49	495.10	631.78	73.76	84.76	100.62	127.44
C	Solano (SV)	Winter	2023	363.84	420.66	495.10	631.97	73.80	84.88	100.69	127.60
C	Solano (SV)	Winter	2024	363.86	420.82	495.09	632.10	73.83	85.01	100.74	127.74
C	Solano (SV)	Winter	2025	363.88	420.96	495.08	632.26	73.86	85.11	100.79	127.89
C	Solano (SV)	Winter	2026	366.31	423.90	498.35	636.62	73.88	85.22	100.83	128.03
C	Solano (SV)	Winter	2027	366.33	424.05	498.34	636.78	73.90	85.31	100.86	128.15
C	Solano (SV)	Winter	2028	366.34	424.20	498.33	636.95	73.91	85.40	100.88	128.26
C	Solano (SV)	Winter	2029	366.34	424.35	498.31	637.11	73.92	85.48	100.90	128.37
C	Solano (SV)	Winter	2030	366.34	424.49	498.30	637.28	73.92	85.56	100.92	128.47
C	Solano (SV)	Winter	2031	366.35	424.64	498.30	637.49	73.93	85.64	100.93	128.58
C	Solano (SV)	Winter	2032	366.35	424.77	498.29	637.69	73.93	85.71	100.94	128.68
C	Solano (SV)	Winter	2033	366.35	424.89	498.28	637.88	73.94	85.78	100.94	128.78
C	Solano (SV)	Winter	2034	366.35	424.99	498.28	638.04	73.94	85.84	100.95	128.87
C	Solano (SV)	Winter	2035	366.34	425.08	498.27	638.19	73.94	85.90	100.96	128.95
C	Sonoma (NC)	Annual	2010	390.51	449.32	534.32	668.22	73.44	86.67	100.89	124.24
C	Sonoma (NC)	Annual	2011	390.41	449.46	533.78	668.92	73.35	86.07	100.76	124.42
C	Sonoma (NC)	Annual	2012	390.39	449.72	533.36	669.75	73.28	85.75	100.71	124.64
C	Sonoma (NC)	Annual	2013	390.45	449.93	533.03	670.64	73.24	85.48	100.70	124.89
C	Sonoma (NC)	Annual	2014	390.51	450.12	532.77	671.53	73.21	85.23	100.66	125.14
C	Sonoma (NC)	Annual	2015	390.56	450.29	532.56	672.43	73.15	84.99	100.59	125.42
C	Sonoma (NC)	Annual	2016	389.58	449.24	530.90	671.41	73.14	84.86	100.60	125.69
C	Sonoma (NC)	Annual	2017	389.62	449.43	530.76	672.22	73.11	84.74	100.59	125.97
C	Sonoma (NC)	Annual	2018	389.63	449.60	530.64	672.91	73.05	84.67	100.59	126.25
C	Sonoma (NC)	Annual	2019	389.66	449.79	530.55	673.52	73.04	84.68	100.60	126.51
C	Sonoma (NC)	Annual	2020	389.72	449.99	530.48	674.07	73.12	84.77	100.66	126.75
C	Sonoma (NC)	Annual	2021	389.70	450.13	530.40	674.51	73.17	84.88	100.73	126.95

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Sonoma (NC)	Annual	2022	389.64	450.20	530.29	674.87	73.19	84.96	100.77	127.13
C	Sonoma (NC)	Annual	2023	389.45	450.24	530.20	675.12	73.19	85.04	100.81	127.31
C	Sonoma (NC)	Annual	2024	389.28	450.28	530.12	675.30	73.17	85.12	100.85	127.48
C	Sonoma (NC)	Annual	2025	389.20	450.39	530.07	675.47	73.17	85.21	100.89	127.63
C	Sonoma (NC)	Annual	2026	388.38	449.63	528.86	674.20	73.19	85.33	100.92	127.79
C	Sonoma (NC)	Annual	2027	388.39	449.84	528.80	674.40	73.21	85.43	100.94	127.93
C	Sonoma (NC)	Annual	2028	388.39	450.05	528.74	674.61	73.21	85.53	100.95	128.07
C	Sonoma (NC)	Annual	2029	388.37	450.26	528.66	674.83	73.22	85.63	100.96	128.20
C	Sonoma (NC)	Annual	2030	388.34	450.46	528.57	675.05	73.22	85.71	100.96	128.32
C	Sonoma (NC)	Annual	2031	388.34	450.68	528.53	675.33	73.23	85.80	100.96	128.45
C	Sonoma (NC)	Annual	2032	388.33	450.87	528.49	675.61	73.23	85.88	100.97	128.57
C	Sonoma (NC)	Annual	2033	388.32	451.04	528.45	675.87	73.24	85.96	100.97	128.69
C	Sonoma (NC)	Annual	2034	388.31	451.20	528.43	676.10	73.25	86.03	100.98	128.79
C	Sonoma (NC)	Annual	2035	388.30	451.32	528.40	676.31	73.25	86.08	100.98	128.89
C	Sonoma (NC)	Summer	2010	405.40	463.97	554.11	693.02	73.44	86.67	100.89	124.24
C	Sonoma (NC)	Summer	2011	405.46	464.55	553.73	693.76	73.35	86.07	100.76	124.42
C	Sonoma (NC)	Summer	2012	405.58	465.14	553.43	694.67	73.28	85.75	100.71	124.64
C	Sonoma (NC)	Summer	2013	405.73	465.65	553.21	695.68	73.24	85.48	100.70	124.89
C	Sonoma (NC)	Summer	2014	405.87	466.08	553.06	696.69	73.21	85.23	100.66	125.14
C	Sonoma (NC)	Summer	2015	405.97	466.45	552.95	697.74	73.15	84.99	100.59	125.42
C	Sonoma (NC)	Summer	2016	404.98	465.53	551.32	696.79	73.14	84.86	100.60	125.69
C	Sonoma (NC)	Summer	2017	405.05	465.86	551.23	697.73	73.11	84.74	100.59	125.97
C	Sonoma (NC)	Summer	2018	405.05	466.14	551.15	698.52	73.05	84.67	100.59	126.25
C	Sonoma (NC)	Summer	2019	405.08	466.43	551.09	699.22	73.04	84.68	100.60	126.51
C	Sonoma (NC)	Summer	2020	405.14	466.72	551.02	699.85	73.12	84.77	100.66	126.75
C	Sonoma (NC)	Summer	2021	405.12	466.94	550.95	700.35	73.17	84.88	100.73	126.95
C	Sonoma (NC)	Summer	2022	405.06	467.10	550.86	700.77	73.19	84.96	100.77	127.13
C	Sonoma (NC)	Summer	2023	404.88	467.22	550.78	701.06	73.19	85.04	100.81	127.31
C	Sonoma (NC)	Summer	2024	404.72	467.34	550.70	701.27	73.17	85.12	100.85	127.48
C	Sonoma (NC)	Summer	2025	404.64	467.50	550.65	701.46	73.17	85.21	100.89	127.63
C	Sonoma (NC)	Summer	2026	403.80	466.76	549.40	700.14	73.19	85.33	100.92	127.79
C	Sonoma (NC)	Summer	2027	403.82	467.03	549.34	700.34	73.21	85.43	100.94	127.93
C	Sonoma (NC)	Summer	2028	403.82	467.29	549.29	700.56	73.21	85.53	100.95	128.07
C	Sonoma (NC)	Summer	2029	403.81	467.55	549.22	700.79	73.22	85.63	100.96	128.20
C	Sonoma (NC)	Summer	2030	403.80	467.80	549.13	701.03	73.22	85.71	100.96	128.32
C	Sonoma (NC)	Summer	2031	403.80	468.07	549.10	701.35	73.23	85.80	100.96	128.45
C	Sonoma (NC)	Summer	2032	403.79	468.29	549.07	701.67	73.23	85.88	100.97	128.57
C	Sonoma (NC)	Summer	2033	403.79	468.49	549.04	701.96	73.24	85.96	100.97	128.69
C	Sonoma (NC)	Summer	2034	403.78	468.67	549.01	702.23	73.25	86.03	100.98	128.79
C	Sonoma (NC)	Summer	2035	403.77	468.80	548.99	702.46	73.25	86.08	100.98	128.89
C	Sonoma (NC)	Winter	2010	383.18	442.11	524.58	656.01	73.44	86.67	100.89	124.24
C	Sonoma (NC)	Winter	2011	383.00	442.03	523.97	656.70	73.35	86.07	100.76	124.42
C	Sonoma (NC)	Winter	2012	382.92	442.12	523.49	657.49	73.28	85.75	100.71	124.64
C	Sonoma (NC)	Winter	2013	382.92	442.20	523.10	658.32	73.24	85.48	100.70	124.89
C	Sonoma (NC)	Winter	2014	382.95	442.27	522.78	659.14	73.21	85.23	100.66	125.14
C	Sonoma (NC)	Winter	2015	382.97	442.33	522.52	659.97	73.15	84.99	100.59	125.42
C	Sonoma (NC)	Winter	2016	382.00	441.23	520.85	658.92	73.14	84.86	100.60	125.69
C	Sonoma (NC)	Winter	2017	382.03	441.35	520.68	659.67	73.11	84.74	100.59	125.97
C	Sonoma (NC)	Winter	2018	382.04	441.46	520.55	660.31	73.05	84.67	100.59	126.25
C	Sonoma (NC)	Winter	2019	382.06	441.60	520.45	660.88	73.04	84.68	100.60	126.51
C	Sonoma (NC)	Winter	2020	382.13	441.75	520.37	661.39	73.12	84.77	100.66	126.75
C	Sonoma (NC)	Winter	2021	382.11	441.85	520.28	661.79	73.17	84.88	100.73	126.95
C	Sonoma (NC)	Winter	2022	382.05	441.88	520.16	662.13	73.19	84.96	100.77	127.13
C	Sonoma (NC)	Winter	2023	381.86	441.88	520.07	662.35	73.19	85.04	100.81	127.31

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Sonoma (NC)	Winter	2024	381.68	441.89	519.99	662.52	73.17	85.12	100.85	127.48
C	Sonoma (NC)	Winter	2025	381.60	441.97	519.94	662.68	73.17	85.21	100.89	127.63
C	Sonoma (NC)	Winter	2026	380.80	441.20	518.76	661.43	73.19	85.33	100.92	127.79
C	Sonoma (NC)	Winter	2027	380.81	441.38	518.69	661.63	73.21	85.43	100.94	127.93
C	Sonoma (NC)	Winter	2028	380.79	441.56	518.63	661.84	73.21	85.53	100.95	128.07
C	Sonoma (NC)	Winter	2029	380.77	441.75	518.54	662.05	73.22	85.63	100.96	128.20
C	Sonoma (NC)	Winter	2030	380.74	441.93	518.44	662.26	73.22	85.71	100.96	128.32
C	Sonoma (NC)	Winter	2031	380.73	442.12	518.40	662.52	73.23	85.80	100.96	128.45
C	Sonoma (NC)	Winter	2032	380.72	442.30	518.36	662.79	73.23	85.88	100.97	128.57
C	Sonoma (NC)	Winter	2033	380.71	442.46	518.33	663.03	73.24	85.96	100.97	128.69
C	Sonoma (NC)	Winter	2034	380.70	442.60	518.30	663.25	73.25	86.03	100.98	128.79
C	Sonoma (NC)	Winter	2035	380.69	442.72	518.27	663.43	73.25	86.08	100.98	128.89
C	Sonoma (SF)	Annual	2010	337.75	387.87	461.89	580.89	73.29	85.42	99.94	124.71
C	Sonoma (SF)	Annual	2011	337.74	388.23	461.68	581.45	73.21	85.10	99.96	124.87
C	Sonoma (SF)	Annual	2012	337.78	388.61	461.51	582.06	73.15	84.87	100.01	125.06
C	Sonoma (SF)	Annual	2013	337.89	388.97	461.38	582.74	73.14	84.69	100.06	125.28
C	Sonoma (SF)	Annual	2014	337.98	389.31	461.27	583.41	73.12	84.55	100.09	125.51
C	Sonoma (SF)	Annual	2015	338.11	389.63	461.19	584.10	73.14	84.44	100.14	125.76
C	Sonoma (SF)	Annual	2016	338.27	389.97	461.13	584.74	73.20	84.38	100.20	126.01
C	Sonoma (SF)	Annual	2017	338.37	390.26	461.08	585.37	73.22	84.32	100.23	126.26
C	Sonoma (SF)	Annual	2018	338.47	390.53	461.05	585.92	73.25	84.30	100.30	126.51
C	Sonoma (SF)	Annual	2019	338.56	390.82	461.02	586.41	73.29	84.40	100.37	126.74
C	Sonoma (SF)	Annual	2020	338.66	391.09	461.01	586.85	73.39	84.53	100.46	126.96
C	Sonoma (SF)	Annual	2021	338.74	391.37	461.00	587.19	73.47	84.71	100.55	127.13
C	Sonoma (SF)	Annual	2022	338.77	391.60	460.98	587.46	73.53	84.86	100.63	127.25
C	Sonoma (SF)	Annual	2023	338.78	391.79	460.96	587.68	73.57	85.00	100.70	127.43
C	Sonoma (SF)	Annual	2024	338.76	391.93	460.93	587.83	73.60	85.12	100.75	127.59
C	Sonoma (SF)	Annual	2025	338.75	392.07	460.92	588.01	73.62	85.23	100.80	127.74
C	Sonoma (SF)	Annual	2026	338.77	392.22	460.89	588.19	73.64	85.34	100.84	127.90
C	Sonoma (SF)	Annual	2027	338.78	392.38	460.87	588.37	73.66	85.43	100.87	128.03
C	Sonoma (SF)	Annual	2028	338.78	392.54	460.84	588.55	73.67	85.53	100.89	128.16
C	Sonoma (SF)	Annual	2029	338.78	392.70	460.81	588.73	73.68	85.62	100.90	128.28
C	Sonoma (SF)	Annual	2030	338.76	392.87	460.79	588.92	73.68	85.70	100.92	128.40
C	Sonoma (SF)	Annual	2031	338.76	393.04	460.77	589.13	73.69	85.78	100.93	128.51
C	Sonoma (SF)	Annual	2032	338.76	393.20	460.76	589.35	73.69	85.86	100.94	128.62
C	Sonoma (SF)	Annual	2033	338.75	393.34	460.74	589.54	73.70	85.93	100.94	128.73
C	Sonoma (SF)	Annual	2034	338.75	393.47	460.73	589.72	73.70	86.00	100.95	128.82
C	Sonoma (SF)	Annual	2035	338.74	393.58	460.71	589.88	73.71	86.06	100.95	128.91
C	Sonoma (SF)	Summer	2010	362.22	413.09	494.52	621.95	73.29	85.42	99.94	124.71
C	Sonoma (SF)	Summer	2011	362.43	413.89	494.43	622.45	73.21	85.10	99.96	124.87
C	Sonoma (SF)	Summer	2012	362.64	414.65	494.39	623.09	73.15	84.87	100.01	125.06
C	Sonoma (SF)	Summer	2013	362.88	415.33	494.38	623.85	73.14	84.69	100.06	125.28
C	Sonoma (SF)	Summer	2014	363.07	415.93	494.41	624.65	73.12	84.55	100.09	125.51
C	Sonoma (SF)	Summer	2015	363.28	416.48	494.45	625.51	73.14	84.44	100.14	125.76
C	Sonoma (SF)	Summer	2016	363.48	417.01	494.48	626.33	73.20	84.38	100.20	126.01
C	Sonoma (SF)	Summer	2017	363.61	417.48	494.51	627.12	73.22	84.32	100.23	126.26
C	Sonoma (SF)	Summer	2018	363.71	417.89	494.51	627.81	73.25	84.30	100.30	126.51
C	Sonoma (SF)	Summer	2019	363.81	418.29	494.51	628.42	73.29	84.40	100.37	126.74
C	Sonoma (SF)	Summer	2020	363.90	418.65	494.49	628.96	73.39	84.53	100.46	126.96
C	Sonoma (SF)	Summer	2021	363.97	419.02	494.47	629.37	73.47	84.71	100.55	127.13
C	Sonoma (SF)	Summer	2022	364.00	419.34	494.43	629.72	73.53	84.86	100.63	127.25
C	Sonoma (SF)	Summer	2023	364.01	419.60	494.40	629.97	73.57	85.00	100.70	127.43
C	Sonoma (SF)	Summer	2024	364.00	419.81	494.37	630.15	73.60	85.12	100.75	127.59
C	Sonoma (SF)	Summer	2025	364.00	420.01	494.34	630.33	73.62	85.23	100.80	127.74

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Sonoma (SF)	Summer	2026	364.02	420.22	494.32	630.51	73.64	85.34	100.84	127.90
C	Sonoma (SF)	Summer	2027	364.03	420.43	494.30	630.69	73.66	85.43	100.87	128.03
C	Sonoma (SF)	Summer	2028	364.04	420.64	494.29	630.87	73.67	85.53	100.89	128.16
C	Sonoma (SF)	Summer	2029	364.04	420.87	494.27	631.06	73.68	85.62	100.90	128.28
C	Sonoma (SF)	Summer	2030	364.04	421.09	494.25	631.26	73.68	85.70	100.92	128.40
C	Sonoma (SF)	Summer	2031	364.04	421.32	494.23	631.51	73.69	85.78	100.93	128.51
C	Sonoma (SF)	Summer	2032	364.05	421.53	494.22	631.77	73.69	85.86	100.94	128.62
C	Sonoma (SF)	Summer	2033	364.05	421.71	494.21	632.00	73.70	85.93	100.94	128.73
C	Sonoma (SF)	Summer	2034	364.04	421.87	494.20	632.22	73.70	86.00	100.95	128.82
C	Sonoma (SF)	Summer	2035	364.04	421.99	494.18	632.42	73.71	86.06	100.95	128.91
C	Sonoma (SF)	Winter	2010	334.63	384.66	457.75	575.67	73.29	85.42	99.94	124.71
C	Sonoma (SF)	Winter	2011	334.60	384.97	457.51	576.23	73.21	85.10	99.96	124.87
C	Sonoma (SF)	Winter	2012	334.62	385.30	457.33	576.85	73.15	84.87	100.01	125.06
C	Sonoma (SF)	Winter	2013	334.71	385.62	457.18	577.51	73.14	84.69	100.06	125.28
C	Sonoma (SF)	Winter	2014	334.78	385.92	457.05	578.16	73.12	84.55	100.09	125.51
C	Sonoma (SF)	Winter	2015	334.91	386.21	456.96	578.83	73.14	84.44	100.14	125.76
C	Sonoma (SF)	Winter	2016	335.06	386.53	456.89	579.45	73.20	84.38	100.20	126.01
C	Sonoma (SF)	Winter	2017	335.16	386.80	456.83	580.06	73.22	84.32	100.23	126.26
C	Sonoma (SF)	Winter	2018	335.26	387.05	456.79	580.59	73.25	84.30	100.30	126.51
C	Sonoma (SF)	Winter	2019	335.35	387.33	456.77	581.07	73.29	84.40	100.37	126.74
C	Sonoma (SF)	Winter	2020	335.45	387.59	456.75	581.50	73.39	84.53	100.46	126.96
C	Sonoma (SF)	Winter	2021	335.53	387.85	456.74	581.82	73.47	84.71	100.55	127.13
C	Sonoma (SF)	Winter	2022	335.56	388.08	456.72	582.09	73.53	84.86	100.63	127.25
C	Sonoma (SF)	Winter	2023	335.57	388.25	456.70	582.30	73.57	85.00	100.70	127.43
C	Sonoma (SF)	Winter	2024	335.55	388.39	456.68	582.45	73.60	85.12	100.75	127.59
C	Sonoma (SF)	Winter	2025	335.54	388.51	456.67	582.62	73.62	85.23	100.80	127.74
C	Sonoma (SF)	Winter	2026	335.56	388.66	456.64	582.81	73.64	85.34	100.84	127.90
C	Sonoma (SF)	Winter	2027	335.57	388.81	456.62	582.99	73.66	85.43	100.87	128.03
C	Sonoma (SF)	Winter	2028	335.57	388.97	456.59	583.17	73.67	85.53	100.89	128.16
C	Sonoma (SF)	Winter	2029	335.56	389.12	456.56	583.35	73.68	85.62	100.90	128.28
C	Sonoma (SF)	Winter	2030	335.55	389.28	456.53	583.54	73.68	85.70	100.92	128.40
C	Sonoma (SF)	Winter	2031	335.55	389.44	456.52	583.74	73.69	85.78	100.93	128.51
C	Sonoma (SF)	Winter	2032	335.54	389.59	456.50	583.96	73.69	85.86	100.94	128.62
C	Sonoma (SF)	Winter	2033	335.54	389.73	456.49	584.15	73.70	85.93	100.94	128.73
C	Sonoma (SF)	Winter	2034	335.53	389.86	456.47	584.32	73.70	86.00	100.95	128.82
C	Sonoma (SF)	Winter	2035	335.52	389.97	456.45	584.47	73.71	86.06	100.95	128.91
C	Stanislaus (SJV)	Annual	2010	347.54	398.75	476.31	598.46	73.30	85.31	100.21	124.28
C	Stanislaus (SJV)	Annual	2011	347.92	399.76	476.16	599.10	73.30	85.02	100.19	124.50
C	Stanislaus (SJV)	Annual	2012	347.75	399.91	475.41	598.84	73.30	84.79	100.22	124.69
C	Stanislaus (SJV)	Annual	2013	348.56	401.20	475.99	600.52	73.33	84.63	100.26	124.96
C	Stanislaus (SJV)	Annual	2014	348.84	401.83	475.95	601.34	73.34	84.51	100.27	125.24
C	Stanislaus (SJV)	Annual	2015	348.56	401.83	475.18	601.35	73.39	84.46	100.29	125.56
C	Stanislaus (SJV)	Annual	2016	348.81	402.38	475.17	602.26	73.47	84.42	100.33	125.89
C	Stanislaus (SJV)	Annual	2017	348.99	402.83	475.15	603.08	73.51	84.39	100.35	126.22
C	Stanislaus (SJV)	Annual	2018	353.62	408.37	481.26	611.54	73.55	84.40	100.38	126.51
C	Stanislaus (SJV)	Annual	2019	353.73	408.70	481.23	612.13	73.61	84.54	100.42	126.77
C	Stanislaus (SJV)	Annual	2020	353.83	408.99	481.21	612.65	73.71	84.70	100.51	127.02
C	Stanislaus (SJV)	Annual	2021	354.71	410.20	482.31	614.49	73.79	84.86	100.60	127.22
C	Stanislaus (SJV)	Annual	2022	354.74	410.42	482.28	614.83	73.84	85.01	100.68	127.40
C	Stanislaus (SJV)	Annual	2023	354.75	410.60	482.25	615.09	73.88	85.14	100.74	127.59
C	Stanislaus (SJV)	Annual	2024	354.87	410.88	482.39	615.50	73.90	85.25	100.79	127.76
C	Stanislaus (SJV)	Annual	2025	354.87	411.01	482.37	615.70	73.92	85.35	100.83	127.93
C	Stanislaus (SJV)	Annual	2026	355.36	411.70	482.95	616.63	73.94	85.46	100.86	128.08
C	Stanislaus (SJV)	Annual	2027	355.37	411.85	482.93	616.79	73.96	85.55	100.89	128.21

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Stanislaus (SJV)	Annual	2028	355.39	412.00	482.91	616.96	73.97	85.64	100.91	128.34
C	Stanislaus (SJV)	Annual	2029	355.40	412.15	482.89	617.13	73.98	85.72	100.92	128.45
C	Stanislaus (SJV)	Annual	2030	355.40	412.30	482.87	617.31	73.98	85.80	100.93	128.56
C	Stanislaus (SJV)	Annual	2031	355.40	412.44	482.87	617.52	73.99	85.88	100.94	128.67
C	Stanislaus (SJV)	Annual	2032	355.40	412.57	482.87	617.73	73.99	85.95	100.95	128.77
C	Stanislaus (SJV)	Annual	2033	355.40	412.68	482.86	617.92	74.00	86.01	100.95	128.87
C	Stanislaus (SJV)	Annual	2034	355.39	412.77	482.86	618.10	74.00	86.07	100.96	128.95
C	Stanislaus (SJV)	Annual	2035	355.39	412.85	482.85	618.26	74.00	86.12	100.96	129.03
C	Stanislaus (SJV)	Summer	2010	381.95	434.06	521.66	655.34	73.30	85.31	100.21	124.28
C	Stanislaus (SJV)	Summer	2011	382.62	435.93	521.78	655.94	73.30	85.02	100.19	124.50
C	Stanislaus (SJV)	Summer	2012	382.57	436.54	521.11	655.56	73.30	84.79	100.22	124.69
C	Stanislaus (SJV)	Summer	2013	383.60	438.42	521.96	657.48	73.33	84.63	100.26	124.96
C	Stanislaus (SJV)	Summer	2014	384.01	439.46	522.13	658.52	73.34	84.51	100.27	125.24
C	Stanislaus (SJV)	Summer	2015	383.81	439.80	521.54	658.80	73.39	84.46	100.29	125.56
C	Stanislaus (SJV)	Summer	2016	384.15	440.64	521.70	660.06	73.47	84.42	100.33	125.89
C	Stanislaus (SJV)	Summer	2017	384.37	441.33	521.79	661.18	73.51	84.39	100.35	126.22
C	Stanislaus (SJV)	Summer	2018	389.43	447.47	528.51	670.57	73.55	84.40	100.38	126.51
C	Stanislaus (SJV)	Summer	2019	389.52	447.88	528.49	671.33	73.61	84.54	100.42	126.77
C	Stanislaus (SJV)	Summer	2020	389.59	448.25	528.44	671.98	73.71	84.70	100.51	127.02
C	Stanislaus (SJV)	Summer	2021	390.52	449.59	529.58	674.02	73.79	84.86	100.60	127.22
C	Stanislaus (SJV)	Summer	2022	390.53	449.87	529.51	674.42	73.84	85.01	100.68	127.40
C	Stanislaus (SJV)	Summer	2023	390.52	450.11	529.44	674.71	73.88	85.14	100.74	127.59
C	Stanislaus (SJV)	Summer	2024	390.61	450.43	529.53	675.12	73.90	85.25	100.79	127.76
C	Stanislaus (SJV)	Summer	2025	390.61	450.61	529.49	675.31	73.92	85.35	100.83	127.93
C	Stanislaus (SJV)	Summer	2026	391.12	451.38	530.07	676.21	73.94	85.46	100.86	128.08
C	Stanislaus (SJV)	Summer	2027	391.16	451.60	530.04	676.32	73.96	85.55	100.89	128.21
C	Stanislaus (SJV)	Summer	2028	391.19	451.82	530.03	676.46	73.97	85.64	100.91	128.34
C	Stanislaus (SJV)	Summer	2029	391.22	452.04	530.02	676.62	73.98	85.72	100.92	128.45
C	Stanislaus (SJV)	Summer	2030	391.24	452.26	530.01	676.80	73.98	85.80	100.93	128.56
C	Stanislaus (SJV)	Summer	2031	391.23	452.46	530.03	677.05	73.99	85.88	100.94	128.67
C	Stanislaus (SJV)	Summer	2032	391.23	452.64	530.04	677.30	73.99	85.95	100.95	128.77
C	Stanislaus (SJV)	Summer	2033	391.23	452.78	530.05	677.55	74.00	86.01	100.95	128.87
C	Stanislaus (SJV)	Summer	2034	391.23	452.91	530.06	677.79	74.00	86.07	100.96	128.95
C	Stanislaus (SJV)	Summer	2035	391.22	453.00	530.06	678.01	74.00	86.12	100.96	129.03
C	Stanislaus (SJV)	Winter	2010	335.59	386.49	460.56	578.69	73.30	85.31	100.21	124.28
C	Stanislaus (SJV)	Winter	2011	335.86	387.20	460.31	579.35	73.30	85.02	100.19	124.50
C	Stanislaus (SJV)	Winter	2012	335.65	387.18	459.53	579.14	73.30	84.79	100.22	124.69
C	Stanislaus (SJV)	Winter	2013	336.39	388.28	460.03	580.73	73.33	84.63	100.26	124.96
C	Stanislaus (SJV)	Winter	2014	336.63	388.77	459.91	581.48	73.34	84.51	100.27	125.24
C	Stanislaus (SJV)	Winter	2015	336.31	388.64	459.08	581.38	73.39	84.46	100.29	125.56
C	Stanislaus (SJV)	Winter	2016	336.53	389.08	459.00	582.17	73.47	84.42	100.33	125.89
C	Stanislaus (SJV)	Winter	2017	336.70	389.46	458.95	582.89	73.51	84.39	100.35	126.22
C	Stanislaus (SJV)	Winter	2018	341.17	394.78	464.84	591.02	73.55	84.40	100.38	126.51
C	Stanislaus (SJV)	Winter	2019	341.29	395.08	464.81	591.56	73.61	84.54	100.42	126.77
C	Stanislaus (SJV)	Winter	2020	341.40	395.35	464.80	592.04	73.71	84.70	100.51	127.02
C	Stanislaus (SJV)	Winter	2021	342.27	396.52	465.89	593.81	73.79	84.86	100.60	127.22
C	Stanislaus (SJV)	Winter	2022	342.31	396.72	465.88	594.13	73.84	85.01	100.68	127.40
C	Stanislaus (SJV)	Winter	2023	342.33	396.88	465.86	594.38	73.88	85.14	100.74	127.59
C	Stanislaus (SJV)	Winter	2024	342.46	397.16	466.03	594.81	73.90	85.25	100.79	127.76
C	Stanislaus (SJV)	Winter	2025	342.47	397.27	466.01	595.01	73.92	85.35	100.83	127.93
C	Stanislaus (SJV)	Winter	2026	342.95	397.93	466.61	595.97	73.94	85.46	100.86	128.08
C	Stanislaus (SJV)	Winter	2027	342.97	398.06	466.59	596.15	73.96	85.55	100.89	128.21
C	Stanislaus (SJV)	Winter	2028	342.97	398.19	466.57	596.32	73.97	85.64	100.91	128.34
C	Stanislaus (SJV)	Winter	2029	342.97	398.32	466.55	596.50	73.98	85.72	100.92	128.45

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Stanislaus (SVJ)	Winter	2030	342.97	398.44	466.53	596.68	73.98	85.80	100.93	128.56
C	Stanislaus (SVJ)	Winter	2031	342.97	398.56	466.52	596.87	73.99	85.88	100.94	128.67
C	Stanislaus (SVJ)	Winter	2032	342.97	398.67	466.51	597.07	73.99	85.95	100.95	128.77
C	Stanislaus (SVJ)	Winter	2033	342.97	398.77	466.50	597.24	74.00	86.01	100.95	128.87
C	Stanislaus (SVJ)	Winter	2034	342.97	398.86	466.49	597.40	74.00	86.07	100.96	128.95
C	Stanislaus (SVJ)	Winter	2035	342.97	398.93	466.48	597.54	74.00	86.12	100.96	129.03
C	Sutter (SV)	Annual	2010	318.92	373.37	437.75	547.81	73.35	93.29	100.32	124.62
C	Sutter (SV)	Annual	2011	319.09	372.86	437.29	548.53	73.38	91.65	100.31	124.85
C	Sutter (SV)	Annual	2012	319.27	372.51	436.94	549.31	73.42	90.37	100.33	125.11
C	Sutter (SV)	Annual	2013	319.44	372.11	436.67	550.12	73.45	89.10	100.35	125.39
C	Sutter (SV)	Annual	2014	319.59	371.91	436.46	550.89	73.47	88.28	100.38	125.67
C	Sutter (SV)	Annual	2015	319.76	371.61	436.29	551.68	73.54	87.32	100.43	125.96
C	Sutter (SV)	Annual	2016	319.90	371.42	436.15	552.41	73.59	86.63	100.48	126.25
C	Sutter (SV)	Annual	2017	320.00	371.27	436.03	553.09	73.62	86.04	100.51	126.55
C	Sutter (SV)	Annual	2018	320.08	371.06	435.93	553.68	73.65	85.42	100.55	126.82
C	Sutter (SV)	Annual	2019	319.95	370.85	435.58	553.80	73.68	85.29	100.60	127.06
C	Sutter (SV)	Annual	2020	320.03	370.87	435.52	554.22	73.77	85.28	100.67	127.27
C	Sutter (SV)	Annual	2021	320.09	371.00	435.45	554.53	73.84	85.39	100.74	127.43
C	Sutter (SV)	Annual	2022	320.10	371.10	435.39	554.80	73.89	85.49	100.80	127.58
C	Sutter (SV)	Annual	2023	320.09	371.18	435.33	555.01	73.92	85.56	100.84	127.75
C	Sutter (SV)	Annual	2024	320.06	371.22	435.28	555.15	73.94	85.63	100.88	127.90
C	Sutter (SV)	Annual	2025	320.07	371.28	435.23	555.29	73.96	85.70	100.91	128.05
C	Sutter (SV)	Annual	2026	320.08	371.36	435.18	555.44	73.98	85.76	100.93	128.18
C	Sutter (SV)	Annual	2027	320.09	371.42	435.13	555.59	73.99	85.82	100.95	128.31
C	Sutter (SV)	Annual	2028	320.10	371.49	435.09	555.75	74.00	85.87	100.96	128.42
C	Sutter (SV)	Annual	2029	320.10	371.57	435.03	555.90	74.01	85.91	100.96	128.53
C	Sutter (SV)	Annual	2030	320.10	371.64	434.98	556.07	74.01	85.96	100.96	128.63
C	Sutter (SV)	Annual	2031	320.09	371.71	434.96	556.25	74.02	86.00	100.97	128.73
C	Sutter (SV)	Annual	2032	320.09	371.77	434.94	556.44	74.02	86.04	100.97	128.83
C	Sutter (SV)	Annual	2033	320.08	371.83	434.92	556.61	74.03	86.08	100.97	128.92
C	Sutter (SV)	Annual	2034	320.08	371.88	434.90	556.76	74.03	86.11	100.98	129.00
C	Sutter (SV)	Annual	2035	320.07	371.92	434.88	556.90	74.03	86.14	100.98	129.08
C	Sutter (SV)	Summer	2010	354.18	409.96	483.57	606.30	73.35	93.29	100.32	124.62
C	Sutter (SV)	Summer	2011	354.64	410.22	483.65	607.07	73.38	91.65	100.31	124.85
C	Sutter (SV)	Summer	2012	355.05	410.47	483.72	608.00	73.42	90.37	100.33	125.11
C	Sutter (SV)	Summer	2013	355.40	410.65	483.78	609.02	73.45	89.10	100.35	125.39
C	Sutter (SV)	Summer	2014	355.68	410.81	483.83	610.04	73.47	88.28	100.38	125.67
C	Sutter (SV)	Summer	2015	355.95	410.91	483.85	611.10	73.54	87.32	100.43	125.96
C	Sutter (SV)	Summer	2016	356.16	411.00	483.85	612.11	73.59	86.63	100.48	126.25
C	Sutter (SV)	Summer	2017	356.29	411.07	483.81	613.03	73.62	86.04	100.51	126.55
C	Sutter (SV)	Summer	2018	356.37	411.10	483.72	613.81	73.65	85.42	100.55	126.82
C	Sutter (SV)	Summer	2019	356.22	410.93	483.33	614.02	73.68	85.29	100.60	127.06
C	Sutter (SV)	Summer	2020	356.26	410.99	483.23	614.53	73.77	85.28	100.67	127.27
C	Sutter (SV)	Summer	2021	356.29	411.17	483.13	614.91	73.84	85.39	100.74	127.43
C	Sutter (SV)	Summer	2022	356.29	411.33	483.05	615.24	73.89	85.49	100.80	127.58
C	Sutter (SV)	Summer	2023	356.27	411.46	482.98	615.49	73.92	85.56	100.84	127.75
C	Sutter (SV)	Summer	2024	356.26	411.55	482.91	615.61	73.94	85.63	100.88	127.90
C	Sutter (SV)	Summer	2025	356.28	411.64	482.86	615.74	73.96	85.70	100.91	128.05
C	Sutter (SV)	Summer	2026	356.31	411.75	482.80	615.87	73.98	85.76	100.93	128.18
C	Sutter (SV)	Summer	2027	356.33	411.83	482.77	616.01	73.99	85.82	100.95	128.31
C	Sutter (SV)	Summer	2028	356.36	411.94	482.75	616.16	74.00	85.87	100.96	128.42
C	Sutter (SV)	Summer	2029	356.37	412.05	482.71	616.33	74.01	85.91	100.96	128.53
C	Sutter (SV)	Summer	2030	356.38	412.16	482.69	616.52	74.01	85.96	100.96	128.63
C	Sutter (SV)	Summer	2031	356.37	412.24	482.71	616.77	74.02	86.00	100.97	128.73

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Sutter (SV)	Summer	2032	356.36	412.32	482.72	617.01	74.02	86.04	100.97	128.83
C	Sutter (SV)	Summer	2033	356.35	412.39	482.72	617.23	74.03	86.08	100.97	128.92
C	Sutter (SV)	Summer	2034	356.34	412.46	482.72	617.45	74.03	86.11	100.98	129.00
C	Sutter (SV)	Summer	2035	356.34	412.51	482.71	617.63	74.03	86.14	100.98	129.08
C	Sutter (SV)	Winter	2010	308.69	362.76	424.46	530.84	73.35	93.29	100.32	124.62
C	Sutter (SV)	Winter	2011	308.77	362.02	423.84	531.54	73.38	91.65	100.31	124.85
C	Sutter (SV)	Winter	2012	308.88	361.49	423.37	532.28	73.42	90.37	100.33	125.11
C	Sutter (SV)	Winter	2013	309.01	360.92	423.00	533.03	73.45	89.10	100.35	125.39
C	Sutter (SV)	Winter	2014	309.11	360.62	422.71	533.73	73.47	88.28	100.38	125.67
C	Sutter (SV)	Winter	2015	309.25	360.21	422.48	534.44	73.54	87.32	100.43	125.96
C	Sutter (SV)	Winter	2016	309.38	359.94	422.31	535.09	73.59	86.63	100.48	126.25
C	Sutter (SV)	Winter	2017	309.47	359.72	422.17	535.69	73.62	86.04	100.51	126.55
C	Sutter (SV)	Winter	2018	309.55	359.44	422.06	536.23	73.65	85.42	100.55	126.82
C	Sutter (SV)	Winter	2019	309.43	359.22	421.72	536.32	73.68	85.29	100.60	127.06
C	Sutter (SV)	Winter	2020	309.51	359.22	421.66	536.71	73.77	85.28	100.67	127.27
C	Sutter (SV)	Winter	2021	309.58	359.34	421.61	537.00	73.84	85.39	100.74	127.43
C	Sutter (SV)	Winter	2022	309.60	359.42	421.56	537.26	73.89	85.49	100.80	127.58
C	Sutter (SV)	Winter	2023	309.59	359.48	421.50	537.45	73.92	85.56	100.84	127.75
C	Sutter (SV)	Winter	2024	309.55	359.52	421.45	537.60	73.94	85.63	100.88	127.90
C	Sutter (SV)	Winter	2025	309.55	359.57	421.41	537.75	73.96	85.70	100.91	128.05
C	Sutter (SV)	Winter	2026	309.57	359.64	421.35	537.90	73.98	85.76	100.93	128.18
C	Sutter (SV)	Winter	2027	309.57	359.69	421.30	538.05	73.99	85.82	100.95	128.31
C	Sutter (SV)	Winter	2028	309.58	359.75	421.25	538.21	74.00	85.87	100.96	128.42
C	Sutter (SV)	Winter	2029	309.57	359.81	421.19	538.36	74.01	85.91	100.96	128.53
C	Sutter (SV)	Winter	2030	309.56	359.88	421.13	538.52	74.01	85.96	100.96	128.63
C	Sutter (SV)	Winter	2031	309.56	359.94	421.10	538.69	74.02	86.00	100.97	128.73
C	Sutter (SV)	Winter	2032	309.56	360.00	421.07	538.86	74.02	86.04	100.97	128.83
C	Sutter (SV)	Winter	2033	309.56	360.05	421.04	539.01	74.03	86.08	100.97	128.92
C	Sutter (SV)	Winter	2034	309.55	360.10	421.02	539.15	74.03	86.11	100.98	129.00
C	Sutter (SV)	Winter	2035	309.55	360.14	421.00	539.27	74.03	86.14	100.98	129.08
C	Tehama (SV)	Annual	2010	347.71	408.08	478.44	596.20	73.92	97.65	101.75	125.26
C	Tehama (SV)	Annual	2011	347.75	407.21	477.63	596.79	73.75	95.12	101.53	125.31
C	Tehama (SV)	Annual	2012	347.86	406.66	477.01	597.48	73.65	93.32	101.40	125.42
C	Tehama (SV)	Annual	2013	347.97	406.10	476.53	598.29	73.54	91.52	101.28	125.55
C	Tehama (SV)	Annual	2014	348.09	405.68	476.15	599.09	73.46	90.11	101.17	125.71
C	Tehama (SV)	Annual	2015	348.24	405.38	475.85	599.96	73.44	88.97	101.03	125.89
C	Tehama (SV)	Annual	2016	348.39	405.05	475.61	600.78	73.43	87.78	100.95	126.12
C	Tehama (SV)	Annual	2017	348.50	404.72	475.41	601.55	73.42	86.61	100.84	126.35
C	Tehama (SV)	Annual	2018	348.57	404.51	475.24	602.23	73.38	85.79	100.77	126.58
C	Tehama (SV)	Annual	2019	348.67	404.46	475.11	602.83	73.42	85.46	100.74	126.78
C	Tehama (SV)	Annual	2020	348.75	404.42	475.00	603.36	73.52	85.32	100.77	126.99
C	Tehama (SV)	Annual	2021	348.82	404.51	474.91	603.73	73.60	85.40	100.84	127.12
C	Tehama (SV)	Annual	2022	348.84	404.58	474.81	603.99	73.65	85.48	100.88	127.15
C	Tehama (SV)	Annual	2023	348.83	404.65	474.72	604.17	73.68	85.54	100.91	127.32
C	Tehama (SV)	Annual	2024	348.79	404.72	474.64	604.33	73.69	85.61	100.94	127.48
C	Tehama (SV)	Annual	2025	348.78	404.78	474.58	604.54	73.71	85.67	100.96	127.66
C	Tehama (SV)	Annual	2026	348.80	404.87	474.51	604.75	73.74	85.74	100.98	127.82
C	Tehama (SV)	Annual	2027	348.82	404.95	474.43	604.97	73.75	85.80	100.99	127.98
C	Tehama (SV)	Annual	2028	348.82	405.02	474.36	605.19	73.76	85.86	100.99	128.12
C	Tehama (SV)	Annual	2029	348.82	405.11	474.28	605.40	73.77	85.91	100.98	128.26
C	Tehama (SV)	Annual	2030	348.81	405.19	474.20	605.62	73.77	85.96	100.97	128.38
C	Tehama (SV)	Annual	2031	348.81	405.27	474.16	605.87	73.78	86.01	100.97	128.51
C	Tehama (SV)	Annual	2032	348.81	405.34	474.13	606.13	73.78	86.06	100.97	128.63
C	Tehama (SV)	Annual	2033	348.80	405.40	474.10	606.35	73.79	86.10	100.97	128.74

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMt)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Tehama (SV)	Annual	2034	348.80	405.45	474.07	606.55	73.79	86.14	100.97	128.85
C	Tehama (SV)	Annual	2035	348.79	405.50	474.05	606.73	73.80	86.17	100.98	128.94
C	Tehama (SV)	Summer	2010	383.41	444.94	524.62	654.31	73.92	97.65	101.75	125.26
C	Tehama (SV)	Summer	2011	383.77	445.00	524.52	654.97	73.75	95.12	101.53	125.31
C	Tehama (SV)	Summer	2012	384.14	445.10	524.43	655.86	73.65	93.32	101.40	125.42
C	Tehama (SV)	Summer	2013	384.45	445.13	524.35	656.99	73.54	91.52	101.28	125.55
C	Tehama (SV)	Summer	2014	384.73	445.13	524.29	658.11	73.46	90.11	101.17	125.71
C	Tehama (SV)	Summer	2015	385.00	445.18	524.25	659.39	73.44	88.97	101.03	125.89
C	Tehama (SV)	Summer	2016	385.23	445.19	524.18	660.60	73.43	87.78	100.95	126.12
C	Tehama (SV)	Summer	2017	385.39	445.19	524.07	661.71	73.42	86.61	100.84	126.35
C	Tehama (SV)	Summer	2018	385.47	445.18	523.93	662.69	73.38	85.79	100.77	126.58
C	Tehama (SV)	Summer	2019	385.58	445.24	523.81	663.55	73.42	85.46	100.74	126.78
C	Tehama (SV)	Summer	2020	385.65	445.32	523.70	664.29	73.52	85.32	100.77	126.99
C	Tehama (SV)	Summer	2021	385.70	445.43	523.58	664.83	73.60	85.40	100.84	127.12
C	Tehama (SV)	Summer	2022	385.72	445.55	523.48	665.26	73.65	85.48	100.88	127.15
C	Tehama (SV)	Summer	2023	385.71	445.67	523.40	665.55	73.68	85.54	100.91	127.32
C	Tehama (SV)	Summer	2024	385.66	445.84	523.33	665.79	73.69	85.61	100.94	127.48
C	Tehama (SV)	Summer	2025	385.66	445.99	523.29	666.03	73.71	85.67	100.96	127.66
C	Tehama (SV)	Summer	2026	385.69	446.14	523.22	666.24	73.74	85.74	100.98	127.82
C	Tehama (SV)	Summer	2027	385.72	446.27	523.16	666.46	73.75	85.80	100.99	127.98
C	Tehama (SV)	Summer	2028	385.74	446.39	523.12	666.69	73.76	85.86	100.99	128.12
C	Tehama (SV)	Summer	2029	385.76	446.52	523.06	666.94	73.77	85.91	100.98	128.26
C	Tehama (SV)	Summer	2030	385.77	446.65	523.02	667.20	73.77	85.96	100.97	128.38
C	Tehama (SV)	Summer	2031	385.77	446.77	523.01	667.51	73.78	86.01	100.97	128.51
C	Tehama (SV)	Summer	2032	385.77	446.86	523.00	667.82	73.78	86.06	100.97	128.63
C	Tehama (SV)	Summer	2033	385.77	446.94	522.99	668.11	73.79	86.10	100.97	128.74
C	Tehama (SV)	Summer	2034	385.77	447.00	522.97	668.39	73.79	86.14	100.97	128.85
C	Tehama (SV)	Summer	2035	385.76	447.05	522.96	668.63	73.80	86.17	100.98	128.94
C	Tehama (SV)	Winter	2010	339.88	399.98	468.30	583.44	73.92	97.65	101.75	125.26
C	Tehama (SV)	Winter	2011	339.84	398.91	467.33	584.01	73.75	95.12	101.53	125.31
C	Tehama (SV)	Winter	2012	339.89	398.22	466.60	584.66	73.65	93.32	101.40	125.42
C	Tehama (SV)	Winter	2013	339.96	397.53	466.03	585.41	73.54	91.52	101.28	125.55
C	Tehama (SV)	Winter	2014	340.05	397.02	465.58	586.13	73.46	90.11	101.17	125.71
C	Tehama (SV)	Winter	2015	340.18	396.64	465.23	586.91	73.44	88.97	101.03	125.89
C	Tehama (SV)	Winter	2016	340.30	396.23	464.95	587.65	73.43	87.78	100.95	126.12
C	Tehama (SV)	Winter	2017	340.40	395.84	464.72	588.34	73.42	86.61	100.84	126.35
C	Tehama (SV)	Winter	2018	340.46	395.57	464.55	588.96	73.38	85.79	100.77	126.58
C	Tehama (SV)	Winter	2019	340.57	395.50	464.42	589.50	73.42	85.46	100.74	126.78
C	Tehama (SV)	Winter	2020	340.65	395.45	464.31	589.99	73.52	85.32	100.77	126.99
C	Tehama (SV)	Winter	2021	340.72	395.53	464.22	590.32	73.60	85.40	100.84	127.12
C	Tehama (SV)	Winter	2022	340.75	395.59	464.13	590.54	73.65	85.48	100.88	127.15
C	Tehama (SV)	Winter	2023	340.74	395.64	464.04	590.70	73.68	85.54	100.91	127.32
C	Tehama (SV)	Winter	2024	340.69	395.69	463.95	590.84	73.69	85.61	100.94	127.48
C	Tehama (SV)	Winter	2025	340.69	395.73	463.89	591.04	73.71	85.67	100.96	127.66
C	Tehama (SV)	Winter	2026	340.71	395.81	463.81	591.25	73.74	85.74	100.98	127.82
C	Tehama (SV)	Winter	2027	340.72	395.87	463.73	591.47	73.75	85.80	100.99	127.98
C	Tehama (SV)	Winter	2028	340.72	395.94	463.66	591.68	73.76	85.86	100.99	128.12
C	Tehama (SV)	Winter	2029	340.71	396.01	463.57	591.89	73.77	85.91	100.98	128.26
C	Tehama (SV)	Winter	2030	340.70	396.08	463.49	592.11	73.77	85.96	100.97	128.38
C	Tehama (SV)	Winter	2031	340.69	396.15	463.44	592.34	73.78	86.01	100.97	128.51
C	Tehama (SV)	Winter	2032	340.69	396.22	463.40	592.58	73.78	86.06	100.97	128.63
C	Tehama (SV)	Winter	2033	340.69	396.28	463.36	592.79	73.79	86.10	100.97	128.74
C	Tehama (SV)	Winter	2034	340.68	396.33	463.33	592.98	73.79	86.14	100.97	128.85
C	Tehama (SV)	Winter	2035	340.68	396.38	463.31	593.14	73.80	86.17	100.98	128.94

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Trinity (NC)	Annual	2010	418.09	487.84	574.09	715.19	74.90	92.99	102.21	125.69
C	Trinity (NC)	Annual	2011	417.85	486.98	572.91	715.90	74.77	91.52	101.90	125.69
C	Trinity (NC)	Annual	2012	417.49	486.30	572.01	716.66	74.38	90.31	101.80	125.77
C	Trinity (NC)	Annual	2013	417.29	485.72	571.27	717.54	74.11	89.30	101.63	125.88
C	Trinity (NC)	Annual	2014	417.30	485.26	570.68	718.45	74.02	88.48	101.43	125.98
C	Trinity (NC)	Annual	2015	417.20	484.84	570.20	719.31	73.81	87.68	101.29	126.15
C	Trinity (NC)	Annual	2016	417.21	484.59	569.80	720.22	73.74	87.14	101.13	126.34
C	Trinity (NC)	Annual	2017	417.18	484.28	569.49	721.03	73.63	86.51	101.07	126.56
C	Trinity (NC)	Annual	2018	417.15	483.99	569.22	721.67	73.54	85.93	100.99	126.78
C	Trinity (NC)	Annual	2019	417.05	483.85	568.99	722.23	73.40	85.63	100.89	126.97
C	Trinity (NC)	Annual	2020	417.08	483.72	568.81	722.69	73.47	85.48	100.93	127.16
C	Trinity (NC)	Annual	2021	417.02	483.56	568.64	722.95	73.51	85.45	100.98	127.20
C	Trinity (NC)	Annual	2022	416.96	483.49	568.47	723.19	73.53	85.47	101.00	127.30
C	Trinity (NC)	Annual	2023	416.81	483.40	568.28	723.33	73.52	85.47	101.00	127.46
C	Trinity (NC)	Annual	2024	416.55	483.36	568.13	723.43	73.46	85.51	101.02	127.61
C	Trinity (NC)	Annual	2025	416.37	483.39	568.02	723.46	73.44	85.56	101.04	127.73
C	Trinity (NC)	Annual	2026	416.37	483.57	567.87	723.62	73.46	85.66	101.04	127.88
C	Trinity (NC)	Annual	2027	416.36	483.73	567.74	723.82	73.47	85.75	101.05	128.02
C	Trinity (NC)	Annual	2028	416.34	483.90	567.63	724.04	73.47	85.83	101.05	128.17
C	Trinity (NC)	Annual	2029	416.30	484.08	567.45	724.24	73.47	85.91	101.03	128.29
C	Trinity (NC)	Annual	2030	416.26	484.24	567.32	724.45	73.47	85.98	101.01	128.41
C	Trinity (NC)	Annual	2031	416.26	484.41	567.24	724.73	73.48	86.05	101.01	128.54
C	Trinity (NC)	Annual	2032	416.25	484.55	567.18	725.01	73.48	86.12	101.01	128.66
C	Trinity (NC)	Annual	2033	416.24	484.67	567.13	725.26	73.49	86.17	101.01	128.78
C	Trinity (NC)	Annual	2034	416.24	484.78	567.09	725.48	73.49	86.23	101.01	128.88
C	Trinity (NC)	Annual	2035	416.23	484.86	567.05	725.68	73.50	86.27	101.01	128.97
C	Trinity (NC)	Summer	2010	427.59	496.70	586.45	730.35	74.90	92.99	102.21	125.69
C	Trinity (NC)	Summer	2011	427.49	496.26	585.45	731.14	74.77	91.52	101.90	125.69
C	Trinity (NC)	Summer	2012	427.24	495.90	584.69	732.01	74.38	90.31	101.80	125.77
C	Trinity (NC)	Summer	2013	427.13	495.58	584.07	733.04	74.11	89.30	101.63	125.88
C	Trinity (NC)	Summer	2014	427.18	495.32	583.59	734.09	74.02	88.48	101.43	125.98
C	Trinity (NC)	Summer	2015	427.12	495.08	583.19	735.09	73.81	87.68	101.29	126.15
C	Trinity (NC)	Summer	2016	427.16	494.97	582.86	736.16	73.74	87.14	101.13	126.34
C	Trinity (NC)	Summer	2017	427.13	494.79	582.58	737.09	73.63	86.51	101.07	126.56
C	Trinity (NC)	Summer	2018	427.09	494.61	582.34	737.83	73.54	85.93	100.99	126.78
C	Trinity (NC)	Summer	2019	426.99	494.56	582.13	738.48	73.40	85.63	100.89	126.97
C	Trinity (NC)	Summer	2020	427.02	494.51	581.96	739.02	73.47	85.48	100.93	127.16
C	Trinity (NC)	Summer	2021	426.96	494.42	581.80	739.36	73.51	85.45	100.98	127.20
C	Trinity (NC)	Summer	2022	426.90	494.41	581.63	739.65	73.53	85.47	101.00	127.30
C	Trinity (NC)	Summer	2023	426.75	494.37	581.45	739.84	73.52	85.47	101.00	127.46
C	Trinity (NC)	Summer	2024	426.50	494.37	581.32	739.98	73.46	85.51	101.02	127.61
C	Trinity (NC)	Summer	2025	426.32	494.44	581.21	740.06	73.44	85.56	101.04	127.73
C	Trinity (NC)	Summer	2026	426.33	494.65	581.06	740.22	73.46	85.66	101.04	127.88
C	Trinity (NC)	Summer	2027	426.33	494.84	580.95	740.44	73.47	85.75	101.05	128.02
C	Trinity (NC)	Summer	2028	426.32	495.05	580.84	740.67	73.47	85.83	101.05	128.17
C	Trinity (NC)	Summer	2029	426.29	495.26	580.68	740.90	73.47	85.91	101.03	128.29
C	Trinity (NC)	Summer	2030	426.26	495.45	580.55	741.12	73.47	85.98	101.01	128.41
C	Trinity (NC)	Summer	2031	426.26	495.65	580.49	741.43	73.48	86.05	101.01	128.54
C	Trinity (NC)	Summer	2032	426.25	495.81	580.43	741.74	73.48	86.12	101.01	128.66
C	Trinity (NC)	Summer	2033	426.25	495.94	580.39	742.01	73.49	86.17	101.01	128.78
C	Trinity (NC)	Summer	2034	426.24	496.05	580.35	742.25	73.49	86.23	101.01	128.88
C	Trinity (NC)	Summer	2035	426.23	496.13	580.31	742.47	73.50	86.27	101.01	128.97
C	Trinity (NC)	Winter	2010	410.15	480.44	563.75	702.52	74.90	92.99	102.21	125.69
C	Trinity (NC)	Winter	2011	409.80	479.23	562.42	703.15	74.77	91.52	101.90	125.69

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Trinity (NC)	Winter	2012	409.34	478.27	561.40	703.82	74.38	90.31	101.80	125.77
C	Trinity (NC)	Winter	2013	409.07	477.47	560.57	704.58	74.11	89.30	101.63	125.88
C	Trinity (NC)	Winter	2014	409.04	476.85	559.89	705.37	74.02	88.48	101.43	125.98
C	Trinity (NC)	Winter	2015	408.90	476.28	559.34	706.11	73.81	87.68	101.29	126.15
C	Trinity (NC)	Winter	2016	408.90	475.91	558.88	706.90	73.74	87.14	101.13	126.34
C	Trinity (NC)	Winter	2017	408.86	475.49	558.54	707.60	73.63	86.51	101.07	126.56
C	Trinity (NC)	Winter	2018	408.83	475.10	558.24	708.16	73.54	85.93	100.99	126.78
C	Trinity (NC)	Winter	2019	408.73	474.90	557.99	708.64	73.40	85.63	100.89	126.97
C	Trinity (NC)	Winter	2020	408.76	474.70	557.81	709.04	73.47	85.48	100.93	127.16
C	Trinity (NC)	Winter	2021	408.71	474.47	557.65	709.23	73.51	85.45	100.98	127.20
C	Trinity (NC)	Winter	2022	408.65	474.36	557.46	709.42	73.53	85.47	101.00	127.30
C	Trinity (NC)	Winter	2023	408.50	474.23	557.26	709.52	73.52	85.47	101.00	127.46
C	Trinity (NC)	Winter	2024	408.24	474.14	557.10	709.59	73.46	85.51	101.02	127.61
C	Trinity (NC)	Winter	2025	408.05	474.15	556.99	709.59	73.44	85.56	101.04	127.73
C	Trinity (NC)	Winter	2026	408.04	474.30	556.83	709.73	73.46	85.66	101.04	127.88
C	Trinity (NC)	Winter	2027	408.03	474.43	556.70	709.93	73.47	85.75	101.05	128.02
C	Trinity (NC)	Winter	2028	407.99	474.58	556.58	710.14	73.47	85.83	101.05	128.17
C	Trinity (NC)	Winter	2029	407.95	474.73	556.39	710.32	73.47	85.91	101.03	128.29
C	Trinity (NC)	Winter	2030	407.90	474.86	556.25	710.50	73.47	85.98	101.01	128.41
C	Trinity (NC)	Winter	2031	407.89	475.01	556.16	710.77	73.48	86.05	101.01	128.54
C	Trinity (NC)	Winter	2032	407.89	475.14	556.09	711.03	73.48	86.12	101.01	128.66
C	Trinity (NC)	Winter	2033	407.88	475.25	556.04	711.25	73.49	86.17	101.01	128.78
C	Trinity (NC)	Winter	2034	407.87	475.35	555.99	711.45	73.49	86.23	101.01	128.88
C	Trinity (NC)	Winter	2035	407.86	475.43	555.96	711.63	73.50	86.27	101.01	128.97
C	Tulare (SJV)	Annual	2010	336.36	385.47	460.79	577.56	73.50	85.81	100.77	124.48
C	Tulare (SJV)	Annual	2011	336.57	386.30	460.48	578.46	73.48	85.49	100.70	124.76
C	Tulare (SJV)	Annual	2012	336.33	386.39	459.69	578.44	73.48	85.24	100.68	125.00
C	Tulare (SJV)	Annual	2013	335.07	385.21	457.53	576.70	73.50	85.03	100.65	125.26
C	Tulare (SJV)	Annual	2014	335.24	385.64	457.39	577.46	73.52	84.88	100.59	125.53
C	Tulare (SJV)	Annual	2015	332.48	382.78	453.30	573.37	73.54	84.80	100.57	125.86
C	Tulare (SJV)	Annual	2016	332.66	383.22	453.22	574.24	73.60	84.76	100.58	126.18
C	Tulare (SJV)	Annual	2017	332.78	383.58	453.15	575.03	73.62	84.70	100.55	126.50
C	Tulare (SJV)	Annual	2018	330.99	381.76	450.54	572.51	73.64	84.68	100.55	126.81
C	Tulare (SJV)	Annual	2019	331.07	382.11	450.49	573.12	73.68	84.78	100.57	127.09
C	Tulare (SJV)	Annual	2020	331.14	382.41	450.44	573.65	73.77	84.92	100.64	127.34
C	Tulare (SJV)	Annual	2021	332.08	383.64	451.61	575.50	73.83	85.06	100.71	127.52
C	Tulare (SJV)	Annual	2022	332.08	383.82	451.55	575.74	73.88	85.19	100.77	127.66
C	Tulare (SJV)	Annual	2023	332.06	383.97	451.49	575.93	73.91	85.30	100.82	127.83
C	Tulare (SJV)	Annual	2024	331.57	383.61	450.80	575.35	73.92	85.42	100.86	128.00
C	Tulare (SJV)	Annual	2025	331.58	383.79	450.78	575.58	73.94	85.52	100.89	128.17
C	Tulare (SJV)	Annual	2026	328.97	380.93	447.18	571.21	73.96	85.62	100.91	128.32
C	Tulare (SJV)	Annual	2027	328.98	381.09	447.14	571.39	73.98	85.71	100.93	128.45
C	Tulare (SJV)	Annual	2028	328.99	381.26	447.12	571.56	73.99	85.79	100.95	128.57
C	Tulare (SJV)	Annual	2029	328.99	381.42	447.08	571.73	73.99	85.87	100.95	128.68
C	Tulare (SJV)	Annual	2030	328.99	381.57	447.05	571.90	73.99	85.94	100.96	128.78
C	Tulare (SJV)	Annual	2031	328.99	381.72	447.04	572.06	74.00	86.01	100.97	128.88
C	Tulare (SJV)	Annual	2032	328.98	381.84	447.02	572.22	74.00	86.07	100.97	128.97
C	Tulare (SJV)	Annual	2033	328.98	381.96	447.00	572.37	74.01	86.12	100.98	129.05
C	Tulare (SJV)	Annual	2034	328.98	382.05	446.99	572.50	74.01	86.17	100.98	129.12
C	Tulare (SJV)	Annual	2035	328.97	382.13	446.97	572.62	74.01	86.21	100.99	129.19
C	Tulare (SJV)	Summer	2010	370.07	419.00	504.64	633.62	73.50	85.81	100.77	124.48
C	Tulare (SJV)	Summer	2011	370.60	420.85	504.80	634.63	73.48	85.49	100.70	124.76
C	Tulare (SJV)	Summer	2012	370.51	421.55	504.22	634.57	73.48	85.24	100.68	125.00
C	Tulare (SJV)	Summer	2013	369.24	420.74	502.10	632.71	73.50	85.03	100.65	125.26

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Tulare (SJV)	Summer	2014	369.50	421.59	502.20	633.64	73.52	84.88	100.59	125.53
C	Tulare (SJV)	Summer	2015	366.59	418.86	497.98	629.41	73.54	84.80	100.57	125.86
C	Tulare (SJV)	Summer	2016	366.85	419.64	498.09	630.59	73.60	84.76	100.58	126.18
C	Tulare (SJV)	Summer	2017	367.01	420.29	498.14	631.63	73.62	84.70	100.55	126.50
C	Tulare (SJV)	Summer	2018	365.07	418.53	495.39	629.07	73.64	84.68	100.55	126.81
C	Tulare (SJV)	Summer	2019	365.18	419.08	495.40	629.88	73.68	84.78	100.57	127.09
C	Tulare (SJV)	Summer	2020	365.26	419.55	495.38	630.57	73.77	84.92	100.64	127.34
C	Tulare (SJV)	Summer	2021	366.23	420.93	496.59	632.55	73.83	85.06	100.71	127.52
C	Tulare (SJV)	Summer	2022	366.18	421.15	496.47	632.78	73.88	85.19	100.77	127.66
C	Tulare (SJV)	Summer	2023	366.13	421.35	496.36	632.94	73.91	85.30	100.82	127.83
C	Tulare (SJV)	Summer	2024	365.61	421.09	495.65	632.36	73.92	85.42	100.86	128.00
C	Tulare (SJV)	Summer	2025	365.65	421.39	495.65	632.65	73.94	85.52	100.89	128.17
C	Tulare (SJV)	Summer	2026	362.79	418.33	491.72	627.85	73.96	85.62	100.91	128.32
C	Tulare (SJV)	Summer	2027	362.81	418.59	491.69	628.03	73.98	85.71	100.93	128.45
C	Tulare (SJV)	Summer	2028	362.84	418.83	491.68	628.22	73.99	85.79	100.95	128.57
C	Tulare (SJV)	Summer	2029	362.86	419.09	491.67	628.41	73.99	85.87	100.95	128.68
C	Tulare (SJV)	Summer	2030	362.87	419.31	491.65	628.60	73.99	85.94	100.96	128.78
C	Tulare (SJV)	Summer	2031	362.87	419.53	491.64	628.76	74.00	86.01	100.97	128.88
C	Tulare (SJV)	Summer	2032	362.86	419.70	491.62	628.93	74.00	86.07	100.97	128.97
C	Tulare (SJV)	Summer	2033	362.85	419.85	491.61	629.09	74.01	86.12	100.98	129.05
C	Tulare (SJV)	Summer	2034	362.85	419.98	491.60	629.26	74.01	86.17	100.98	129.12
C	Tulare (SJV)	Summer	2035	362.84	420.07	491.58	629.40	74.01	86.21	100.99	129.19
C	Tulare (SJV)	Winter	2010	322.59	371.77	442.88	554.67	73.50	85.81	100.77	124.48
C	Tulare (SJV)	Winter	2011	322.67	372.19	442.39	555.52	73.48	85.49	100.70	124.76
C	Tulare (SJV)	Winter	2012	322.38	372.04	441.51	555.52	73.48	85.24	100.68	125.00
C	Tulare (SJV)	Winter	2013	321.12	370.70	439.32	553.83	73.50	85.03	100.65	125.26
C	Tulare (SJV)	Winter	2014	321.25	370.96	439.09	554.52	73.52	84.88	100.59	125.53
C	Tulare (SJV)	Winter	2015	318.55	368.04	435.04	550.47	73.54	84.80	100.57	125.86
C	Tulare (SJV)	Winter	2016	318.70	368.34	434.89	551.22	73.60	84.76	100.58	126.18
C	Tulare (SJV)	Winter	2017	318.79	368.59	434.76	551.90	73.62	84.70	100.55	126.50
C	Tulare (SJV)	Winter	2018	317.06	366.73	432.20	549.39	73.64	84.68	100.55	126.81
C	Tulare (SJV)	Winter	2019	317.13	366.99	432.13	549.92	73.68	84.78	100.57	127.09
C	Tulare (SJV)	Winter	2020	317.20	367.23	432.08	550.39	73.77	84.92	100.64	127.34
C	Tulare (SJV)	Winter	2021	318.13	368.41	433.22	552.19	73.83	85.06	100.71	127.52
C	Tulare (SJV)	Winter	2022	318.15	368.57	433.19	552.43	73.88	85.19	100.77	127.66
C	Tulare (SJV)	Winter	2023	318.14	368.69	433.15	552.63	73.91	85.30	100.82	127.83
C	Tulare (SJV)	Winter	2024	317.65	368.30	432.48	552.05	73.92	85.42	100.86	128.00
C	Tulare (SJV)	Winter	2025	317.66	368.42	432.44	552.26	73.94	85.52	100.89	128.17
C	Tulare (SJV)	Winter	2026	315.14	365.64	428.97	548.06	73.96	85.62	100.91	128.32
C	Tulare (SJV)	Winter	2027	315.15	365.77	428.93	548.23	73.98	85.71	100.93	128.45
C	Tulare (SJV)	Winter	2028	315.15	365.90	428.90	548.40	73.99	85.79	100.95	128.57
C	Tulare (SJV)	Winter	2029	315.14	366.02	428.86	548.56	73.99	85.87	100.95	128.68
C	Tulare (SJV)	Winter	2030	315.14	366.14	428.82	548.72	73.99	85.94	100.96	128.78
C	Tulare (SJV)	Winter	2031	315.14	366.26	428.80	548.88	74.00	86.01	100.97	128.88
C	Tulare (SJV)	Winter	2032	315.14	366.37	428.79	549.04	74.00	86.07	100.97	128.97
C	Tulare (SJV)	Winter	2033	315.13	366.46	428.77	549.17	74.01	86.12	100.98	129.05
C	Tulare (SJV)	Winter	2034	315.13	366.55	428.75	549.30	74.01	86.17	100.98	129.12
C	Tulare (SJV)	Winter	2035	315.13	366.62	428.73	549.40	74.01	86.21	100.99	129.19
C	Tuolumne (MC)	Annual	2010	351.80	409.05	482.29	602.53	74.53	90.23	101.65	124.41
C	Tuolumne (MC)	Annual	2011	351.82	408.95	481.75	603.20	74.32	89.28	101.47	124.55
C	Tuolumne (MC)	Annual	2012	351.88	408.91	481.33	604.01	74.15	88.59	101.37	124.74
C	Tuolumne (MC)	Annual	2013	351.99	408.83	480.99	604.89	74.02	87.89	101.25	124.97
C	Tuolumne (MC)	Annual	2014	352.09	408.75	480.72	605.77	73.90	87.27	101.07	125.20
C	Tuolumne (MC)	Annual	2015	352.23	408.71	480.51	606.66	73.86	86.74	100.95	125.47

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Tuolumne (MC)	Annual	2016	352.33	408.71	480.34	607.53	73.81	86.35	100.89	125.75
C	Tuolumne (MC)	Annual	2017	352.40	408.66	480.19	608.32	73.73	85.87	100.79	126.04
C	Tuolumne (MC)	Annual	2018	352.44	408.65	480.07	609.00	73.66	85.55	100.74	126.32
C	Tuolumne (MC)	Annual	2019	352.50	408.66	479.98	609.60	73.64	85.35	100.71	126.58
C	Tuolumne (MC)	Annual	2020	352.53	408.71	479.91	610.12	73.71	85.33	100.75	126.82
C	Tuolumne (MC)	Annual	2021	352.52	408.72	479.81	610.51	73.75	85.36	100.79	127.02
C	Tuolumne (MC)	Annual	2022	352.49	408.72	479.74	610.83	73.77	85.39	100.83	127.18
C	Tuolumne (MC)	Annual	2023	352.42	408.71	479.67	611.05	73.77	85.42	100.87	127.37
C	Tuolumne (MC)	Annual	2024	352.35	408.71	479.60	611.23	73.76	85.46	100.89	127.55
C	Tuolumne (MC)	Annual	2025	352.30	408.78	479.56	611.41	73.76	85.53	100.93	127.72
C	Tuolumne (MC)	Annual	2026	352.31	408.91	479.51	611.58	73.78	85.63	100.95	127.88
C	Tuolumne (MC)	Annual	2027	352.31	409.03	479.46	611.78	73.79	85.72	100.97	128.03
C	Tuolumne (MC)	Annual	2028	352.31	409.16	479.41	611.96	73.80	85.80	100.98	128.17
C	Tuolumne (MC)	Annual	2029	352.30	409.28	479.35	612.15	73.80	85.87	100.98	128.30
C	Tuolumne (MC)	Annual	2030	352.29	409.39	479.30	612.34	73.81	85.94	100.98	128.42
C	Tuolumne (MC)	Annual	2031	352.28	409.51	479.27	612.58	73.81	86.01	100.98	128.55
C	Tuolumne (MC)	Annual	2032	352.28	409.62	479.24	612.83	73.82	86.08	100.98	128.67
C	Tuolumne (MC)	Annual	2033	352.28	409.71	479.22	613.04	73.82	86.13	100.99	128.78
C	Tuolumne (MC)	Annual	2034	352.28	409.79	479.20	613.24	73.83	86.19	100.99	128.88
C	Tuolumne (MC)	Annual	2035	352.27	409.86	479.19	613.41	73.83	86.23	101.00	128.97
C	Tuolumne (MC)	Summer	2010	379.58	436.17	518.68	647.34	74.53	90.23	101.65	124.41
C	Tuolumne (MC)	Summer	2011	379.89	437.05	518.44	648.13	74.32	89.28	101.47	124.55
C	Tuolumne (MC)	Summer	2012	380.18	437.74	518.26	649.15	74.15	88.59	101.37	124.74
C	Tuolumne (MC)	Summer	2013	380.45	438.26	518.15	650.32	74.02	87.89	101.25	124.97
C	Tuolumne (MC)	Summer	2014	380.68	438.66	518.10	651.50	73.90	87.27	101.07	125.20
C	Tuolumne (MC)	Summer	2015	380.90	439.01	518.08	652.73	73.86	86.74	100.95	125.47
C	Tuolumne (MC)	Summer	2016	381.07	439.30	518.06	653.92	73.81	86.35	100.89	125.75
C	Tuolumne (MC)	Summer	2017	381.16	439.53	518.01	654.99	73.73	85.87	100.79	126.04
C	Tuolumne (MC)	Summer	2018	381.20	439.71	517.96	655.91	73.66	85.55	100.74	126.32
C	Tuolumne (MC)	Summer	2019	381.25	439.89	517.91	656.72	73.64	85.35	100.71	126.58
C	Tuolumne (MC)	Summer	2020	381.27	440.08	517.84	657.42	73.71	85.33	100.75	126.82
C	Tuolumne (MC)	Summer	2021	381.25	440.21	517.77	657.94	73.75	85.36	100.79	127.02
C	Tuolumne (MC)	Summer	2022	381.21	440.34	517.69	658.37	73.77	85.39	100.83	127.18
C	Tuolumne (MC)	Summer	2023	381.14	440.44	517.62	658.69	73.77	85.42	100.87	127.37
C	Tuolumne (MC)	Summer	2024	381.08	440.54	517.57	658.94	73.76	85.46	100.89	127.55
C	Tuolumne (MC)	Summer	2025	381.03	440.66	517.52	659.17	73.76	85.53	100.93	127.72
C	Tuolumne (MC)	Summer	2026	381.05	440.87	517.48	659.35	73.78	85.63	100.95	127.88
C	Tuolumne (MC)	Summer	2027	381.07	441.05	517.44	659.54	73.79	85.72	100.97	128.03
C	Tuolumne (MC)	Summer	2028	381.08	441.24	517.40	659.75	73.80	85.80	100.98	128.17
C	Tuolumne (MC)	Summer	2029	381.09	441.43	517.36	659.96	73.80	85.87	100.98	128.30
C	Tuolumne (MC)	Summer	2030	381.09	441.61	517.32	660.19	73.81	85.94	100.98	128.42
C	Tuolumne (MC)	Summer	2031	381.10	441.78	517.30	660.50	73.81	86.01	100.98	128.55
C	Tuolumne (MC)	Summer	2032	381.10	441.93	517.28	660.80	73.82	86.08	100.98	128.67
C	Tuolumne (MC)	Summer	2033	381.09	442.04	517.26	661.07	73.82	86.13	100.99	128.78
C	Tuolumne (MC)	Summer	2034	381.09	442.15	517.24	661.33	73.83	86.19	100.99	128.88
C	Tuolumne (MC)	Summer	2035	381.08	442.22	517.22	661.55	73.83	86.23	101.00	128.97
C	Tuolumne (MC)	Winter	2010	345.75	403.14	474.37	592.78	74.53	90.23	101.65	124.41
C	Tuolumne (MC)	Winter	2011	345.71	402.84	473.77	593.43	74.32	89.28	101.47	124.55
C	Tuolumne (MC)	Winter	2012	345.72	402.64	473.30	594.19	74.15	88.59	101.37	124.74
C	Tuolumne (MC)	Winter	2013	345.79	402.42	472.91	595.00	74.02	87.89	101.25	124.97
C	Tuolumne (MC)	Winter	2014	345.87	402.24	472.59	595.82	73.90	87.27	101.07	125.20
C	Tuolumne (MC)	Winter	2015	345.99	402.12	472.33	596.64	73.86	86.74	100.95	125.47
C	Tuolumne (MC)	Winter	2016	346.08	402.05	472.13	597.43	73.81	86.35	100.89	125.75
C	Tuolumne (MC)	Winter	2017	346.14	401.95	471.96	598.16	73.73	85.87	100.79	126.04

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Tuolumne (MC)	Winter	2018	346.19	401.89	471.83	598.79	73.66	85.55	100.74	126.32
C	Tuolumne (MC)	Winter	2019	346.24	401.87	471.73	599.34	73.64	85.35	100.71	126.58
C	Tuolumne (MC)	Winter	2020	346.28	401.88	471.65	599.83	73.71	85.33	100.75	126.82
C	Tuolumne (MC)	Winter	2021	346.27	401.86	471.55	600.19	73.75	85.36	100.79	127.02
C	Tuolumne (MC)	Winter	2022	346.24	401.84	471.48	600.48	73.77	85.39	100.83	127.18
C	Tuolumne (MC)	Winter	2023	346.16	401.81	471.41	600.69	73.77	85.42	100.87	127.37
C	Tuolumne (MC)	Winter	2024	346.10	401.78	471.34	600.85	73.76	85.46	100.89	127.55
C	Tuolumne (MC)	Winter	2025	346.04	401.84	471.30	601.01	73.76	85.53	100.93	127.72
C	Tuolumne (MC)	Winter	2026	346.05	401.96	471.25	601.19	73.78	85.63	100.95	127.88
C	Tuolumne (MC)	Winter	2027	346.05	402.06	471.20	601.38	73.79	85.72	100.97	128.03
C	Tuolumne (MC)	Winter	2028	346.04	402.17	471.14	601.56	73.80	85.80	100.98	128.17
C	Tuolumne (MC)	Winter	2029	346.03	402.28	471.08	601.74	73.80	85.87	100.98	128.30
C	Tuolumne (MC)	Winter	2030	346.02	402.38	471.02	601.93	73.81	85.94	100.98	128.42
C	Tuolumne (MC)	Winter	2031	346.01	402.49	470.99	602.16	73.81	86.01	100.98	128.55
C	Tuolumne (MC)	Winter	2032	346.01	402.59	470.97	602.39	73.82	86.08	100.98	128.67
C	Tuolumne (MC)	Winter	2033	346.01	402.67	470.95	602.59	73.82	86.13	100.99	128.78
C	Tuolumne (MC)	Winter	2034	346.01	402.75	470.93	602.77	73.83	86.19	100.99	128.88
C	Tuolumne (MC)	Winter	2035	346.00	402.81	470.91	602.93	73.83	86.23	101.00	128.97
C	Ventura (SCC)	Annual	2010	333.21	383.06	456.23	576.41	73.39	83.96	99.49	125.11
C	Ventura (SCC)	Annual	2011	334.06	384.40	457.06	578.10	73.37	83.90	99.58	125.31
C	Ventura (SCC)	Annual	2012	334.23	384.93	456.97	578.64	73.35	83.91	99.69	125.52
C	Ventura (SCC)	Annual	2013	334.46	385.44	456.97	579.27	73.37	83.94	99.80	125.74
C	Ventura (SCC)	Annual	2014	334.61	385.87	456.92	579.81	73.35	83.96	99.91	125.96
C	Ventura (SCC)	Annual	2015	336.96	388.79	459.88	584.16	73.37	84.01	100.00	126.20
C	Ventura (SCC)	Annual	2016	337.13	389.18	459.85	584.69	73.42	84.08	100.11	126.44
C	Ventura (SCC)	Annual	2017	337.26	389.54	459.83	585.20	73.44	84.15	100.20	126.68
C	Ventura (SCC)	Annual	2018	337.37	389.86	459.82	585.65	73.47	84.25	100.29	126.90
C	Ventura (SCC)	Annual	2019	338.59	391.47	461.34	587.98	73.51	84.41	100.38	127.11
C	Ventura (SCC)	Annual	2020	338.68	391.75	461.34	588.35	73.61	84.58	100.48	127.31
C	Ventura (SCC)	Annual	2021	340.62	394.18	463.90	591.89	73.68	84.75	100.57	127.48
C	Ventura (SCC)	Annual	2022	340.66	394.41	463.89	592.14	73.73	84.90	100.65	127.62
C	Ventura (SCC)	Annual	2023	340.67	394.58	463.88	592.33	73.77	85.03	100.71	127.78
C	Ventura (SCC)	Annual	2024	342.13	396.43	465.87	595.04	73.79	85.15	100.77	127.93
C	Ventura (SCC)	Annual	2025	342.13	396.57	465.87	595.19	73.81	85.26	100.81	128.07
C	Ventura (SCC)	Annual	2026	342.15	396.72	465.85	595.36	73.83	85.37	100.85	128.21
C	Ventura (SCC)	Annual	2027	342.16	396.87	465.84	595.51	73.84	85.46	100.88	128.33
C	Ventura (SCC)	Annual	2028	342.17	397.01	465.82	595.67	73.85	85.55	100.90	128.45
C	Ventura (SCC)	Annual	2029	342.17	397.16	465.80	595.81	73.86	85.64	100.92	128.55
C	Ventura (SCC)	Annual	2030	342.17	397.31	465.79	595.97	73.86	85.72	100.93	128.65
C	Ventura (SCC)	Annual	2031	343.80	399.36	468.01	598.97	73.87	85.80	100.94	128.74
C	Ventura (SCC)	Annual	2032	343.79	399.50	468.00	599.13	73.88	85.87	100.95	128.83
C	Ventura (SCC)	Annual	2033	343.79	399.63	467.99	599.27	73.88	85.94	100.96	128.92
C	Ventura (SCC)	Annual	2034	343.79	399.74	467.98	599.40	73.88	86.00	100.96	128.99
C	Ventura (SCC)	Annual	2035	343.79	399.84	467.97	599.52	73.89	86.06	100.97	129.06
C	Ventura (SCC)	Summer	2010	347.83	398.15	475.58	600.79	73.39	83.96	99.49	125.11
C	Ventura (SCC)	Summer	2011	348.77	399.76	476.48	602.48	73.37	83.90	99.58	125.31
C	Ventura (SCC)	Summer	2012	348.98	400.46	476.42	602.99	73.35	83.91	99.69	125.52
C	Ventura (SCC)	Summer	2013	349.27	401.14	476.48	603.66	73.37	83.94	99.80	125.74
C	Ventura (SCC)	Summer	2014	349.45	401.68	476.48	604.24	73.35	83.96	99.91	125.96
C	Ventura (SCC)	Summer	2015	351.94	404.82	479.63	608.85	73.37	84.01	100.00	126.20
C	Ventura (SCC)	Summer	2016	352.14	405.30	479.65	609.45	73.42	84.08	100.11	126.44
C	Ventura (SCC)	Summer	2017	352.28	405.73	479.66	610.04	73.44	84.15	100.20	126.68
C	Ventura (SCC)	Summer	2018	352.41	406.11	479.66	610.55	73.47	84.25	100.29	126.90
C	Ventura (SCC)	Summer	2019	353.67	407.82	481.25	613.02	73.51	84.41	100.38	127.11

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Ventura (SCC)	Summer	2020	353.77	408.15	481.25	613.43	73.61	84.58	100.48	127.31
C	Ventura (SCC)	Summer	2021	355.80	410.74	483.94	617.18	73.68	84.75	100.57	127.48
C	Ventura (SCC)	Summer	2022	355.84	411.01	483.93	617.47	73.73	84.90	100.65	127.62
C	Ventura (SCC)	Summer	2023	355.85	411.23	483.92	617.68	73.77	85.03	100.71	127.78
C	Ventura (SCC)	Summer	2024	357.40	413.22	486.02	620.55	73.79	85.15	100.77	127.93
C	Ventura (SCC)	Summer	2025	357.40	413.40	486.01	620.72	73.81	85.26	100.81	128.07
C	Ventura (SCC)	Summer	2026	357.42	413.59	486.00	620.90	73.83	85.37	100.85	128.21
C	Ventura (SCC)	Summer	2027	357.43	413.77	485.98	621.06	73.84	85.46	100.88	128.33
C	Ventura (SCC)	Summer	2028	357.44	413.94	485.96	621.21	73.85	85.55	100.90	128.45
C	Ventura (SCC)	Summer	2029	357.45	414.12	485.94	621.36	73.86	85.64	100.92	128.55
C	Ventura (SCC)	Summer	2030	357.45	414.30	485.93	621.52	73.86	85.72	100.93	128.65
C	Ventura (SCC)	Summer	2031	359.14	416.47	488.25	624.65	73.87	85.80	100.94	128.74
C	Ventura (SCC)	Summer	2032	359.14	416.64	488.24	624.81	73.88	85.87	100.95	128.83
C	Ventura (SCC)	Summer	2033	359.14	416.79	488.23	624.96	73.88	85.94	100.96	128.92
C	Ventura (SCC)	Summer	2034	359.13	416.92	488.22	625.10	73.88	86.00	100.96	128.99
C	Ventura (SCC)	Summer	2035	359.13	417.02	488.21	625.23	73.89	86.06	100.97	129.06
C	Ventura (SCC)	Winter	2010	330.44	380.19	452.56	571.78	73.39	83.96	99.49	125.11
C	Ventura (SCC)	Winter	2011	331.27	381.49	453.38	573.48	73.37	83.90	99.58	125.31
C	Ventura (SCC)	Winter	2012	331.43	381.98	453.29	574.02	73.35	83.91	99.69	125.52
C	Ventura (SCC)	Winter	2013	331.65	382.46	453.27	574.64	73.37	83.94	99.80	125.74
C	Ventura (SCC)	Winter	2014	331.80	382.87	453.21	575.18	73.35	83.96	99.91	125.96
C	Ventura (SCC)	Winter	2015	334.12	385.75	456.13	579.48	73.37	84.01	100.00	126.20
C	Ventura (SCC)	Winter	2016	334.29	386.12	456.10	579.99	73.42	84.08	100.11	126.44
C	Ventura (SCC)	Winter	2017	334.41	386.47	456.07	580.49	73.44	84.15	100.20	126.68
C	Ventura (SCC)	Winter	2018	334.52	386.78	456.06	580.93	73.47	84.25	100.29	126.90
C	Ventura (SCC)	Winter	2019	335.73	388.37	457.57	583.24	73.51	84.41	100.38	127.11
C	Ventura (SCC)	Winter	2020	335.82	388.65	457.57	583.59	73.61	84.58	100.48	127.31
C	Ventura (SCC)	Winter	2021	337.74	391.05	460.10	587.10	73.68	84.75	100.57	127.48
C	Ventura (SCC)	Winter	2022	337.78	391.26	460.10	587.34	73.73	84.90	100.65	127.62
C	Ventura (SCC)	Winter	2023	337.80	391.43	460.09	587.53	73.77	85.03	100.71	127.78
C	Ventura (SCC)	Winter	2024	339.24	393.25	462.06	590.20	73.79	85.15	100.77	127.93
C	Ventura (SCC)	Winter	2025	339.24	393.38	462.05	590.36	73.81	85.26	100.81	128.07
C	Ventura (SCC)	Winter	2026	339.26	393.53	462.04	590.52	73.83	85.37	100.85	128.21
C	Ventura (SCC)	Winter	2027	339.27	393.67	462.02	590.68	73.84	85.46	100.88	128.33
C	Ventura (SCC)	Winter	2028	339.28	393.81	462.01	590.83	73.85	85.55	100.90	128.45
C	Ventura (SCC)	Winter	2029	339.28	393.95	461.99	590.98	73.86	85.64	100.92	128.55
C	Ventura (SCC)	Winter	2030	339.28	394.09	461.98	591.13	73.86	85.72	100.93	128.65
C	Ventura (SCC)	Winter	2031	340.89	396.12	464.18	594.11	73.87	85.80	100.94	128.74
C	Ventura (SCC)	Winter	2032	340.89	396.26	464.17	594.27	73.88	85.87	100.95	128.83
C	Ventura (SCC)	Winter	2033	340.89	396.38	464.16	594.41	73.88	85.94	100.96	128.92
C	Ventura (SCC)	Winter	2034	340.89	396.49	464.15	594.54	73.88	86.00	100.96	128.99
C	Ventura (SCC)	Winter	2035	340.88	396.58	464.14	594.65	73.89	86.06	100.97	129.06
C	Yolo (SV)	Annual	2010	336.72	387.12	461.65	581.89	72.73	85.31	99.86	124.93
C	Yolo (SV)	Annual	2011	336.97	387.81	461.52	582.48	72.77	85.00	99.91	125.14
C	Yolo (SV)	Annual	2012	337.24	388.46	461.43	583.14	72.83	84.86	99.98	125.38
C	Yolo (SV)	Annual	2013	337.49	389.01	461.37	583.82	72.90	84.70	100.04	125.63
C	Yolo (SV)	Annual	2014	337.72	389.50	461.33	584.51	72.96	84.61	100.12	125.89
C	Yolo (SV)	Annual	2015	337.96	389.95	461.30	585.20	73.06	84.57	100.16	126.15
C	Yolo (SV)	Annual	2016	338.17	390.35	461.29	585.85	73.15	84.56	100.24	126.41
C	Yolo (SV)	Annual	2017	338.34	390.69	461.27	586.46	73.23	84.51	100.28	126.67
C	Yolo (SV)	Annual	2018	338.49	390.99	461.25	586.98	73.31	84.52	100.34	126.91
C	Yolo (SV)	Annual	2019	337.20	389.64	459.31	584.97	73.38	84.60	100.41	127.12
C	Yolo (SV)	Annual	2020	337.30	389.89	459.30	585.36	73.47	84.72	100.49	127.33
C	Yolo (SV)	Annual	2021	337.38	390.13	459.28	585.66	73.55	84.88	100.58	127.49

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Yolo (SV)	Annual	2022	337.43	390.34	459.26	585.92	73.61	85.01	100.66	127.63
C	Yolo (SV)	Annual	2023	337.45	390.51	459.24	586.13	73.65	85.13	100.72	127.79
C	Yolo (SV)	Annual	2024	337.46	390.65	459.23	586.27	73.67	85.24	100.77	127.93
C	Yolo (SV)	Annual	2025	337.46	390.78	459.21	586.42	73.70	85.33	100.81	128.07
C	Yolo (SV)	Annual	2026	337.48	390.92	459.20	586.59	73.72	85.43	100.85	128.21
C	Yolo (SV)	Annual	2027	337.50	391.06	459.19	586.76	73.73	85.51	100.88	128.33
C	Yolo (SV)	Annual	2028	337.51	391.21	459.18	586.92	73.74	85.59	100.90	128.44
C	Yolo (SV)	Annual	2029	337.51	391.35	459.16	587.08	73.75	85.67	100.92	128.55
C	Yolo (SV)	Annual	2030	337.52	391.49	459.15	587.25	73.75	85.74	100.93	128.65
C	Yolo (SV)	Annual	2031	337.52	391.63	459.14	587.41	73.76	85.81	100.94	128.74
C	Yolo (SV)	Annual	2032	337.52	391.76	459.13	587.58	73.77	85.88	100.95	128.83
C	Yolo (SV)	Annual	2033	337.52	391.88	459.12	587.73	73.77	85.94	100.95	128.92
C	Yolo (SV)	Annual	2034	337.52	391.98	459.11	587.88	73.77	85.99	100.96	129.00
C	Yolo (SV)	Annual	2035	337.52	392.07	459.10	588.00	73.78	86.04	100.96	129.07
C	Yolo (SV)	Summer	2010	372.26	423.83	508.64	641.11	72.73	85.31	99.86	124.93
C	Yolo (SV)	Summer	2011	372.71	425.23	508.71	641.62	72.77	85.00	99.91	125.14
C	Yolo (SV)	Summer	2012	373.13	426.43	508.79	642.30	72.83	84.86	99.98	125.38
C	Yolo (SV)	Summer	2013	373.50	427.43	508.90	643.09	72.90	84.70	100.04	125.63
C	Yolo (SV)	Summer	2014	373.83	428.27	509.03	643.94	72.96	84.61	100.12	125.89
C	Yolo (SV)	Summer	2015	374.13	429.00	509.16	644.86	73.06	84.57	100.16	126.15
C	Yolo (SV)	Summer	2016	374.39	429.62	509.25	645.72	73.15	84.56	100.24	126.41
C	Yolo (SV)	Summer	2017	374.59	430.15	509.32	646.54	73.23	84.51	100.28	126.67
C	Yolo (SV)	Summer	2018	374.75	430.58	509.32	647.21	73.31	84.52	100.34	126.91
C	Yolo (SV)	Summer	2019	373.25	429.11	507.09	644.96	73.38	84.60	100.41	127.12
C	Yolo (SV)	Summer	2020	373.34	429.45	507.05	645.44	73.47	84.72	100.49	127.33
C	Yolo (SV)	Summer	2021	373.41	429.79	506.99	645.81	73.55	84.88	100.58	127.49
C	Yolo (SV)	Summer	2022	373.45	430.08	506.94	646.13	73.61	85.01	100.66	127.63
C	Yolo (SV)	Summer	2023	373.47	430.33	506.89	646.38	73.65	85.13	100.72	127.79
C	Yolo (SV)	Summer	2024	373.48	430.55	506.85	646.54	73.67	85.24	100.77	127.93
C	Yolo (SV)	Summer	2025	373.49	430.75	506.82	646.69	73.70	85.33	100.81	128.07
C	Yolo (SV)	Summer	2026	373.51	430.95	506.82	646.89	73.72	85.43	100.85	128.21
C	Yolo (SV)	Summer	2027	373.52	431.16	506.83	647.07	73.73	85.51	100.88	128.33
C	Yolo (SV)	Summer	2028	373.54	431.36	506.84	647.25	73.74	85.59	100.90	128.44
C	Yolo (SV)	Summer	2029	373.55	431.57	506.84	647.44	73.75	85.67	100.92	128.55
C	Yolo (SV)	Summer	2030	373.55	431.77	506.84	647.62	73.75	85.74	100.93	128.65
C	Yolo (SV)	Summer	2031	373.56	431.98	506.84	647.80	73.76	85.81	100.94	128.74
C	Yolo (SV)	Summer	2032	373.57	432.16	506.83	647.98	73.77	85.88	100.95	128.83
C	Yolo (SV)	Summer	2033	373.58	432.31	506.82	648.16	73.77	85.94	100.95	128.92
C	Yolo (SV)	Summer	2034	373.58	432.44	506.81	648.34	73.77	85.99	100.96	129.00
C	Yolo (SV)	Summer	2035	373.58	432.55	506.80	648.50	73.78	86.04	100.96	129.07
C	Yolo (SV)	Winter	2010	327.05	377.13	448.86	565.78	72.73	85.31	99.86	124.93
C	Yolo (SV)	Winter	2011	327.25	377.62	448.68	566.39	72.77	85.00	99.91	125.14
C	Yolo (SV)	Winter	2012	327.47	378.13	448.54	567.03	72.83	84.86	99.98	125.38
C	Yolo (SV)	Winter	2013	327.69	378.55	448.43	567.69	72.90	84.70	100.04	125.63
C	Yolo (SV)	Winter	2014	327.89	378.94	448.35	568.33	72.96	84.61	100.12	125.89
C	Yolo (SV)	Winter	2015	328.11	379.32	448.28	568.96	73.06	84.57	100.16	126.15
C	Yolo (SV)	Winter	2016	328.31	379.66	448.23	569.55	73.15	84.56	100.24	126.41
C	Yolo (SV)	Winter	2017	328.47	379.95	448.19	570.10	73.23	84.51	100.28	126.67
C	Yolo (SV)	Winter	2018	328.62	380.21	448.17	570.58	73.31	84.52	100.34	126.91
C	Yolo (SV)	Winter	2019	327.41	378.92	446.34	568.68	73.38	84.60	100.41	127.12
C	Yolo (SV)	Winter	2020	327.51	379.14	446.33	569.04	73.47	84.72	100.49	127.33
C	Yolo (SV)	Winter	2021	327.59	379.37	446.32	569.33	73.55	84.88	100.58	127.49
C	Yolo (SV)	Winter	2022	327.64	379.55	446.32	569.57	73.61	85.01	100.66	127.63
C	Yolo (SV)	Winter	2023	327.66	379.69	446.30	569.76	73.65	85.13	100.72	127.79

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Yolo (SV)	Winter	2024	327.67	379.81	446.29	569.90	73.67	85.24	100.77	127.93
C	Yolo (SV)	Winter	2025	327.68	379.92	446.28	570.05	73.70	85.33	100.81	128.07
C	Yolo (SV)	Winter	2026	327.70	380.05	446.27	570.22	73.72	85.43	100.85	128.21
C	Yolo (SV)	Winter	2027	327.72	380.18	446.25	570.38	73.73	85.51	100.88	128.33
C	Yolo (SV)	Winter	2028	327.73	380.30	446.23	570.54	73.74	85.59	100.90	128.44
C	Yolo (SV)	Winter	2029	327.73	380.42	446.21	570.69	73.75	85.67	100.92	128.55
C	Yolo (SV)	Winter	2030	327.73	380.55	446.20	570.85	73.75	85.74	100.93	128.65
C	Yolo (SV)	Winter	2031	327.73	380.67	446.19	571.01	73.76	85.81	100.94	128.74
C	Yolo (SV)	Winter	2032	327.73	380.79	446.18	571.17	73.77	85.88	100.95	128.83
C	Yolo (SV)	Winter	2033	327.73	380.89	446.17	571.32	73.77	85.94	100.95	128.92
C	Yolo (SV)	Winter	2034	327.73	380.99	446.16	571.45	73.77	85.99	100.96	129.00
C	Yolo (SV)	Winter	2035	327.72	381.07	446.15	571.57	73.78	86.04	100.96	129.07
C	Yuba (SV)	Annual	2010	331.71	387.20	455.73	569.14	73.59	94.17	100.78	124.81
C	Yuba (SV)	Annual	2011	331.88	386.92	455.13	569.94	73.55	92.48	100.68	124.98
C	Yuba (SV)	Annual	2012	332.08	386.74	454.68	570.82	73.57	91.09	100.67	125.20
C	Yuba (SV)	Annual	2013	332.28	386.58	454.33	571.76	73.58	89.86	100.67	125.45
C	Yuba (SV)	Annual	2014	332.43	386.50	454.06	572.63	73.55	88.96	100.63	125.71
C	Yuba (SV)	Annual	2015	332.60	386.32	453.85	573.51	73.58	87.83	100.63	125.99
C	Yuba (SV)	Annual	2016	332.76	386.25	453.68	574.33	73.63	87.10	100.62	126.28
C	Yuba (SV)	Annual	2017	332.89	386.13	453.53	575.09	73.67	86.26	100.64	126.56
C	Yuba (SV)	Annual	2018	332.95	386.05	453.40	575.74	73.66	85.67	100.67	126.82
C	Yuba (SV)	Annual	2019	329.78	382.30	448.92	570.68	73.66	85.36	100.69	127.05
C	Yuba (SV)	Annual	2020	329.83	382.32	448.84	571.12	73.74	85.30	100.76	127.28
C	Yuba (SV)	Annual	2021	329.87	382.43	448.77	571.46	73.80	85.40	100.82	127.44
C	Yuba (SV)	Annual	2022	329.88	382.52	448.70	571.71	73.85	85.48	100.87	127.53
C	Yuba (SV)	Annual	2023	329.88	382.59	448.64	571.92	73.88	85.55	100.91	127.71
C	Yuba (SV)	Annual	2024	329.85	382.67	448.59	572.07	73.89	85.63	100.94	127.87
C	Yuba (SV)	Annual	2025	329.83	382.75	448.55	572.24	73.90	85.70	100.96	128.02
C	Yuba (SV)	Annual	2026	329.85	382.83	448.50	572.40	73.92	85.77	100.98	128.17
C	Yuba (SV)	Annual	2027	329.86	382.89	448.45	572.55	73.94	85.83	100.99	128.30
C	Yuba (SV)	Annual	2028	329.87	382.96	448.40	572.72	73.95	85.88	101.00	128.42
C	Yuba (SV)	Annual	2029	329.87	383.04	448.35	572.89	73.95	85.93	101.00	128.53
C	Yuba (SV)	Annual	2030	329.86	383.11	448.30	573.07	73.96	85.98	100.99	128.64
C	Yuba (SV)	Annual	2031	329.86	383.18	448.28	573.23	73.96	86.03	100.99	128.74
C	Yuba (SV)	Annual	2032	329.86	383.24	448.26	573.41	73.96	86.07	101.00	128.84
C	Yuba (SV)	Annual	2033	329.86	383.30	448.24	573.57	73.97	86.11	101.00	128.93
C	Yuba (SV)	Annual	2034	329.86	383.35	448.22	573.72	73.97	86.15	101.00	129.01
C	Yuba (SV)	Annual	2035	329.85	383.39	448.21	573.85	73.98	86.18	101.00	129.08
C	Yuba (SV)	Summer	2010	368.33	425.28	503.39	628.81	73.59	94.17	100.78	124.81
C	Yuba (SV)	Summer	2011	368.82	425.88	503.44	629.79	73.55	92.48	100.68	124.98
C	Yuba (SV)	Summer	2012	369.28	426.40	503.45	630.96	73.57	91.09	100.67	125.20
C	Yuba (SV)	Summer	2013	369.67	426.80	503.45	632.27	73.58	89.86	100.67	125.45
C	Yuba (SV)	Summer	2014	369.96	427.10	503.47	633.51	73.55	88.96	100.63	125.71
C	Yuba (SV)	Summer	2015	370.23	427.34	503.46	634.77	73.58	87.83	100.63	125.99
C	Yuba (SV)	Summer	2016	370.46	427.52	503.42	635.97	73.63	87.10	100.62	126.28
C	Yuba (SV)	Summer	2017	370.61	427.67	503.33	637.05	73.67	86.26	100.64	126.56
C	Yuba (SV)	Summer	2018	370.68	427.77	503.20	637.94	73.66	85.67	100.67	126.82
C	Yuba (SV)	Summer	2019	367.12	423.68	498.20	632.43	73.66	85.36	100.69	127.05
C	Yuba (SV)	Summer	2020	367.15	423.74	498.07	632.99	73.74	85.30	100.76	127.28
C	Yuba (SV)	Summer	2021	367.16	423.89	497.95	633.41	73.80	85.40	100.82	127.44
C	Yuba (SV)	Summer	2022	367.15	424.03	497.86	633.76	73.85	85.48	100.87	127.53
C	Yuba (SV)	Summer	2023	367.14	424.15	497.79	634.02	73.88	85.55	100.91	127.71
C	Yuba (SV)	Summer	2024	367.11	424.30	497.73	634.20	73.89	85.63	100.94	127.87
C	Yuba (SV)	Summer	2025	367.09	424.44	497.70	634.39	73.90	85.70	100.96	128.02

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
C	Yuba (SV)	Summer	2026	367.12	424.53	497.64	634.51	73.92	85.77	100.98	128.17
C	Yuba (SV)	Summer	2027	367.15	424.62	497.59	634.66	73.94	85.83	100.99	128.30
C	Yuba (SV)	Summer	2028	367.18	424.72	497.56	634.82	73.95	85.88	101.00	128.42
C	Yuba (SV)	Summer	2029	367.20	424.83	497.53	635.01	73.95	85.93	101.00	128.53
C	Yuba (SV)	Summer	2030	367.22	424.95	497.51	635.21	73.96	85.98	100.99	128.64
C	Yuba (SV)	Summer	2031	367.22	425.04	497.51	635.38	73.96	86.03	100.99	128.74
C	Yuba (SV)	Summer	2032	367.23	425.12	497.51	635.56	73.96	86.07	101.00	128.84
C	Yuba (SV)	Summer	2033	367.23	425.19	497.51	635.76	73.97	86.11	101.00	128.93
C	Yuba (SV)	Summer	2034	367.23	425.26	497.50	635.95	73.97	86.15	101.00	129.01
C	Yuba (SV)	Summer	2035	367.22	425.31	497.50	636.13	73.98	86.18	101.00	129.08
C	Yuba (SV)	Winter	2010	322.00	377.10	443.10	553.32	73.59	94.17	100.78	124.81
C	Yuba (SV)	Winter	2011	322.08	376.59	442.32	554.07	73.55	92.48	100.68	124.98
C	Yuba (SV)	Winter	2012	322.22	376.23	441.75	554.87	73.57	91.09	100.67	125.20
C	Yuba (SV)	Winter	2013	322.37	375.91	441.30	555.71	73.58	89.86	100.67	125.45
C	Yuba (SV)	Winter	2014	322.48	375.73	440.96	556.49	73.55	88.96	100.63	125.71
C	Yuba (SV)	Winter	2015	322.62	375.45	440.69	557.26	73.58	87.83	100.63	125.99
C	Yuba (SV)	Winter	2016	322.77	375.30	440.49	557.99	73.63	87.10	100.62	126.28
C	Yuba (SV)	Winter	2017	322.88	375.11	440.32	558.67	73.67	86.26	100.64	126.56
C	Yuba (SV)	Winter	2018	322.95	374.99	440.20	559.25	73.66	85.67	100.67	126.82
C	Yuba (SV)	Winter	2019	319.88	371.33	435.86	554.31	73.66	85.36	100.69	127.05
C	Yuba (SV)	Winter	2020	319.94	371.34	435.79	554.72	73.74	85.30	100.76	127.28
C	Yuba (SV)	Winter	2021	319.98	371.44	435.73	555.03	73.80	85.40	100.82	127.44
C	Yuba (SV)	Winter	2022	320.00	371.52	435.67	555.26	73.85	85.48	100.87	127.53
C	Yuba (SV)	Winter	2023	320.00	371.57	435.61	555.46	73.88	85.55	100.91	127.71
C	Yuba (SV)	Winter	2024	319.98	371.63	435.57	555.60	73.89	85.63	100.94	127.87
C	Yuba (SV)	Winter	2025	319.96	371.70	435.52	555.77	73.90	85.70	100.96	128.02
C	Yuba (SV)	Winter	2026	319.97	371.77	435.47	555.93	73.92	85.77	100.98	128.17
C	Yuba (SV)	Winter	2027	319.97	371.83	435.42	556.09	73.94	85.83	100.99	128.30
C	Yuba (SV)	Winter	2028	319.97	371.89	435.37	556.26	73.95	85.88	101.00	128.42
C	Yuba (SV)	Winter	2029	319.97	371.96	435.31	556.42	73.95	85.93	101.00	128.53
C	Yuba (SV)	Winter	2030	319.96	372.02	435.26	556.59	73.96	85.98	100.99	128.64
C	Yuba (SV)	Winter	2031	319.96	372.08	435.22	556.76	73.96	86.03	100.99	128.74
C	Yuba (SV)	Winter	2032	319.96	372.14	435.20	556.93	73.96	86.07	101.00	128.84
C	Yuba (SV)	Winter	2033	319.95	372.19	435.18	557.08	73.97	86.11	101.00	128.93
C	Yuba (SV)	Winter	2034	319.95	372.24	435.15	557.22	73.97	86.15	101.00	129.01
C	Yuba (SV)	Winter	2035	319.95	372.27	435.14	557.34	73.98	86.18	101.00	129.08
S	State	Annual	2010	348.30	399.84	476.00	599.04	73.17	84.92	99.67	124.99
S	State	Annual	2011	348.67	400.62	476.13	599.97	73.18	84.72	99.73	125.19
S	State	Annual	2012	348.78	401.01	475.89	600.42	73.21	84.60	99.83	125.41
S	State	Annual	2013	348.91	401.36	475.66	600.88	73.26	84.51	99.92	125.64
S	State	Annual	2014	349.03	401.70	475.49	601.40	73.30	84.45	100.01	125.88
S	State	Annual	2015	349.34	402.17	475.56	602.18	73.36	84.42	100.10	126.13
S	State	Annual	2016	349.52	402.53	475.51	602.82	73.43	84.42	100.19	126.39
S	State	Annual	2017	349.60	402.79	475.40	603.33	73.48	84.43	100.27	126.64
S	State	Annual	2018	349.73	403.11	475.42	603.91	73.51	84.45	100.34	126.88
S	State	Annual	2019	349.43	402.96	474.90	603.76	73.56	84.57	100.42	127.10
S	State	Annual	2020	349.47	403.17	474.82	604.08	73.66	84.72	100.51	127.31
S	State	Annual	2021	349.92	403.86	475.37	605.14	73.73	84.88	100.60	127.48
S	State	Annual	2022	349.89	404.04	475.31	605.39	73.78	85.02	100.68	127.63
S	State	Annual	2023	349.84	404.17	475.26	605.57	73.81	85.14	100.74	127.79
S	State	Annual	2024	350.69	405.29	476.43	607.26	73.83	85.25	100.79	127.94
S	State	Annual	2025	350.63	405.38	476.38	607.40	73.85	85.35	100.83	128.09
S	State	Annual	2026	350.65	405.61	476.40	607.67	73.86	85.45	100.87	128.23
S	State	Annual	2027	350.61	405.72	476.34	607.80	73.88	85.54	100.89	128.35

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
S	State	Annual	2028	350.56	405.84	476.28	607.92	73.89	85.62	100.91	128.46
S	State	Annual	2029	350.51	405.95	476.21	608.04	73.90	85.70	100.93	128.57
S	State	Annual	2030	350.45	406.07	476.14	608.17	73.90	85.77	100.94	128.66
S	State	Annual	2031	350.80	406.69	476.65	609.06	73.90	85.85	100.95	128.76
S	State	Annual	2032	350.74	406.81	476.61	609.20	73.91	85.92	100.95	128.85
S	State	Annual	2033	350.68	406.91	476.58	609.32	73.91	85.98	100.96	128.93
S	State	Annual	2034	350.62	407.00	476.54	609.43	73.92	86.04	100.97	129.01
S	State	Annual	2035	350.56	407.07	476.50	609.52	73.92	86.09	100.97	129.08
S	State	Summer	2010	371.32	424.00	506.45	638.85	73.17	84.92	99.67	124.99
S	State	Summer	2011	371.88	425.31	506.78	639.81	73.18	84.72	99.73	125.19
S	State	Summer	2012	372.11	426.09	506.67	640.31	73.21	84.60	99.83	125.41
S	State	Summer	2013	372.33	426.77	506.57	640.88	73.26	84.51	99.92	125.64
S	State	Summer	2014	372.54	427.37	506.54	641.54	73.30	84.45	100.01	125.88
S	State	Summer	2015	372.93	428.07	506.76	642.54	73.36	84.42	100.10	126.13
S	State	Summer	2016	373.17	428.62	506.84	643.39	73.43	84.42	100.19	126.39
S	State	Summer	2017	373.29	429.04	506.82	644.08	73.48	84.43	100.27	126.64
S	State	Summer	2018	373.45	429.51	506.92	644.85	73.51	84.45	100.34	126.88
S	State	Summer	2019	373.16	429.45	506.41	644.82	73.56	84.57	100.42	127.10
S	State	Summer	2020	373.22	429.77	506.36	645.28	73.66	84.72	100.51	127.31
S	State	Summer	2021	373.74	430.59	506.97	646.50	73.73	84.88	100.60	127.48
S	State	Summer	2022	373.76	430.86	506.93	646.85	73.78	85.02	100.68	127.63
S	State	Summer	2023	373.74	431.08	506.89	647.10	73.81	85.14	100.74	127.79
S	State	Summer	2024	374.69	432.36	508.16	648.94	73.83	85.25	100.79	127.94
S	State	Summer	2025	374.66	432.54	508.13	649.13	73.85	85.35	100.83	128.09
S	State	Summer	2026	374.72	432.85	508.19	649.44	73.87	85.45	100.87	128.23
S	State	Summer	2027	374.71	433.04	508.16	649.59	73.88	85.54	100.89	128.35
S	State	Summer	2028	374.70	433.23	508.13	649.75	73.89	85.62	100.91	128.46
S	State	Summer	2029	374.69	433.42	508.10	649.90	73.90	85.70	100.93	128.57
S	State	Summer	2030	374.67	433.61	508.07	650.06	73.90	85.77	100.94	128.66
S	State	Summer	2031	375.08	434.34	508.64	651.05	73.90	85.85	100.95	128.76
S	State	Summer	2032	375.06	434.52	508.63	651.23	73.91	85.92	100.95	128.85
S	State	Summer	2033	375.04	434.68	508.63	651.41	73.91	85.98	100.96	128.93
S	State	Summer	2034	375.02	434.82	508.62	651.57	73.92	86.04	100.97	129.01
S	State	Summer	2035	375.00	434.92	508.61	651.72	73.92	86.09	100.97	129.08
S	State	Winter	2010	342.17	393.38	467.85	587.98	73.17	84.92	99.67	124.99
S	State	Winter	2011	342.48	393.99	467.91	588.87	73.18	84.72	99.73	125.19
S	State	Winter	2012	342.55	394.26	467.62	589.31	73.21	84.60	99.83	125.41
S	State	Winter	2013	342.64	394.51	467.33	589.70	73.26	84.51	99.92	125.64
S	State	Winter	2014	342.74	394.76	467.11	590.16	73.30	84.45	100.01	125.88
S	State	Winter	2015	343.01	395.15	467.12	590.86	73.36	84.42	100.10	126.13
S	State	Winter	2016	343.16	395.44	467.02	591.41	73.43	84.42	100.19	126.39
S	State	Winter	2017	343.21	395.64	466.87	591.83	73.48	84.43	100.27	126.64
S	State	Winter	2018	343.32	395.91	466.84	592.33	73.51	84.45	100.34	126.88
S	State	Winter	2019	343.00	395.72	466.30	592.12	73.56	84.57	100.42	127.10
S	State	Winter	2020	343.02	395.88	466.18	592.37	73.66	84.72	100.51	127.31
S	State	Winter	2021	343.45	396.53	466.70	593.35	73.73	84.88	100.60	127.48
S	State	Winter	2022	343.41	396.67	466.63	593.54	73.78	85.02	100.68	127.63
S	State	Winter	2023	343.34	396.76	466.55	593.67	73.81	85.14	100.74	127.79
S	State	Winter	2024	344.14	397.81	467.67	595.27	73.83	85.25	100.79	127.94
S	State	Winter	2025	344.06	397.86	467.59	595.37	73.85	85.35	100.83	128.09
S	State	Winter	2026	344.06	398.05	467.58	595.60	73.87	85.45	100.87	128.23
S	State	Winter	2027	344.00	398.13	467.50	595.70	73.88	85.54	100.89	128.35
S	State	Winter	2028	343.93	398.21	467.41	595.79	73.89	85.62	100.91	128.46
S	State	Winter	2029	343.86	398.30	467.32	595.88	73.90	85.70	100.93	128.57

Table 4.4 Alternative CO2 Emission Factors (Non-Pavley)

	Location	Season	Year	CO2 Running (g/VMT)				CO2 Starting (g/trip)			
				LDA	LDT1	LDT2	MDV	LDA	LDT1	LDT2	MDV
S	State	Winter	2030	343.78	398.37	467.23	595.97	73.90	85.77	100.94	128.66
S	State	Winter	2031	344.10	398.94	467.69	596.80	73.90	85.85	100.95	128.76
S	State	Winter	2032	344.02	399.03	467.63	596.90	73.91	85.92	100.95	128.85
S	State	Winter	2033	343.95	399.11	467.57	596.99	73.91	85.98	100.96	128.93
S	State	Winter	2034	343.87	399.17	467.51	597.06	73.92	86.04	100.97	129.01
S	State	Winter	2035	343.80	399.21	467.44	597.12	73.92	86.09	100.97	129.08

Table 5.1 Hearth Usage

Name	Multi or Single Family Home	Wood Hearth %	Natural Gas %	Propane %	No Hearth %	Wood Mass Fireplace	Hours/day Fireplace	Day/year Fireplace	Wood Stove Conventional %	Wood Stove Catalytic %	WoodStove NonCatalytic %	Wood Stove Pellet %	Wood mass Stove	Hours/day Stove	Hours/year Stove	Days/Year Stove
Amador County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Alameda	MFH	17	15	0	4	228.8	3.5	11.1	0	2	2	0	582.4	8.5		14
Alpine	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Amador	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Antelope Valley APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Bay Area AQMD	MFH	17	15	0	4	228.8	3.5	11.1	0	2	2	0	582.4	8.5		14
Butte County AQMD	MFH	39	43	0	18	5158.4	3.7	150.0	0	9	9	0	3019.2	7.3		150
Butte	MFH	39	43	0	18	5158.4	3.7	150.0	0	9	9	0	3019.2	7.3		150
Calaveras	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Contra Costa	MFH	17	15	0	4	228.8	3.5	11.1	0	2	2	0	582.4	8.5		14
Colusa County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Calaveras County AQMD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Colusa	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Del Norte	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
El Dorado County AQMD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
El Dorado-Lake Tahoe	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
El Dorado-Mountain County	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Feather River AQMD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Fresno	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Great Basin UAPCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Great Basin Valleys	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Glenn County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Glenn	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Humboldt	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Imperial County APCD	MFH	0	55	0	0	2080	2.8	4.3	0	0	0	0	0.0	0.0		0
Imperial	MFH	0	55	0	0	2080	2.8	4.3	0	0	0	0	0.0	0.0		0
Inyo	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Kern County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Kern-Mojave Desert	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Kern-San Joaquin	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Kings	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Lake	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Los Angeles-Mojave Desert	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Los Angeles-South Coast	MFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
Lassen	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Lake County	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Lassen County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Lake County AQMD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Lake Tahoe	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Madera	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Mariposa County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Marin	MFH	17	15	0	4	228.8	3.5	11.1	0	2	2	0	582.4	8.5		14
Mariposa	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Monterey Bay Unified APCD	MFH	0	100	0	0	0	0.0	0.0	0	0	0	0	0.0	0.0		0
Mountain Counties	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Mendocino County AQMD	MFH	5	5	0	90	4992	3.0	116.7	0	20	20	0	4896.0	3.0		117
Mojave Desert	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Mojave Desert AQMD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82

Table 5.1 Hearth Usage

Name	Multi or Single Family Home	Wood Hearth %	Natural Gas %	Propane %	No Hearth %	Wood Mass Fireplace	Hours/day Fireplace	Day/year Fireplace	Wood Stove Conventional %	Wood Stove Catalytic %	WoodStove NonCatalytic %	Wood Stove Pellet %	Wood mass Stove	Hours/day Stove	Hours/year Stove	Days/Year Stove
Mendocino-Coastal	MFH	5	5	0	90	4992	3.0	116.7	0	20	20	0	4896.0	3.0		117
Mendocino-Inland	MFH	5	5	0	90	4992	3.0	116.7	0	20	20	0	4896.0	3.0		117
Mendocino-Rural Inland North	MFH	5	5	0	90	4992	3.0	116.7	0	20	20	0	4896.0	3.0		117
Mendocino-Rural Inland South	MFH	5	5	0	90	4992	3.0	116.7	0	20	20	0	4896.0	3.0		117
Merced	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Modoc	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Modoc County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Mono	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Monterey	MFH	0	100	0	0	0	0.0	0.0	0	0	0	0	0.0	0.0		0
Napa	MFH	17	15	0	4	228.8	3.5	11.1	0	2	2	0	582.4	8.5		14
North Coast	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
North Coast Unified APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
North Central Coast	MFH	0	100	0	0	0	0.0	0.0	0	0	0	0	0.0	0.0		0
Nevada	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Northeast Plateau	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Northern Sierra AQMD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Northern Sonoma County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Orange	MFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
Placer County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Placer-Lake Tahoe	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Placer-Mountain Counties	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Placer-Sacramento	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Plumas	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Riverside-Mojave Desert MDAQMD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Riverside-South Coast	MFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
Riverside-Mojave Desert South Coast AQMD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Riverside-Salton Sea	MFH	10	80	0	10	457.6	3.0	82.0	0	5	5	0	999.6	3.0		82
Sacramento	MFH	0	0	0	100	0	0.0	0.0	0	0	0	0	0.0	0.0		0
Santa Barbara County APCD	MFH	0	0	0	0	0	3.0	82.0	0	0	0	0	0.0	3.0		82
San Benito	MFH	0	100	0	0	0	0.0	0.0	0	0	0	0	0.0	0.0		0
San Bernardino-Mojave Desert	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Bernardino-South Coast	MFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
Santa Barbara-North of Santa Ynez	MFH	0	0	0	0	0	3.0	82.0	0	0	0	0	0.0	3.0		82
Santa Barbara-South of Santa Ynez Range	MFH	0	0	0	0	0	3.0	82.0	0	0	0	0	0.0	3.0		82
South Coast	MFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
Siskiyou County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
South Coast AQMD	MFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
South Central Coast	MFH	0	0	0	0	3078.4	3.0	82.0	0	0	0	0	3019.2	3.0		82
Santa Clara	MFH	17	15	0	4	228.8	3.5	11.1	0	2	2	0	582.4	8.5		14
Santa Cruz	MFH	0	100	0	0	0	0.0	0.0	0	0	0	0	0.0	0.0		0
San Diego	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Diego	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Diego County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Francisco	MFH	17	15	0	4	228.8	3.5	11.1	0	2	2	0	582.4	8.5		14
San Francisco Bay Area	MFH	17	15	0	4	228.8	3.5	11.1	0	2	2	0	582.4	8.5		14
Shasta	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Shasta County AQMD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Sierra	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82

Table 5.1 Hearth Usage

Name	Multi or Single Family Home	Wood Hearth %	Natural Gas %	Propane %	No Hearth %	Wood Mass Fireplace	Hours/day Fireplace	Day/year Fireplace	Wood Stove Conventional %	Wood Stove Catalytic %	WoodStove NonCatalytic %	Wood Stove Pellet %	Wood mass Stove	Hours/day Stove	Hours/year Stove	Days/Year Stove
Siskiyou	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Joaquin	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Joaquin Valley	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Joaquin Valley Unified APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Luis Obispo	MFH	0	0	0	0	0	0.0	0.0	0	0	0	0	2016.0	8.0		60
San Luis Obispo County APCD	MFH	0	0	0	0	0	0.0	0.0	0	0	0	0	2016.0	8.0		60
San Mateo	MFH	17	15	0	4	228.8	3.5	11.1	0	2	2	0	582.4	8.5		14
Sacramento Metropolitan AQMD	MFH	0	0	0	100	0	0.0	0.0	0	0	0	0	0.0	0.0		0
Solano-San Francisco	MFH	17	15	0	4	228.8	3.5	11.1	0	2	2	0	582.4	8.5		14
Solano-Sacramento	MFH	35	55	0	10	4558.4	3.0	82.0	0	5	5	0	4558.4	3.0		82
Sonoma-North Coast	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Sonoma-San Francisco	MFH	17	15	0	4	228.8	3.5	11.1	0	2	2	0	582.4	8.5		14
Salton Sea	MFH	0	55	0	0	2080	2.8	4.3	0	0	0	0	0.0	0.0		0
Stanislaus	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Statewide	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Sutter	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Sacramento Valley	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Tehama	MFH	20	20	0	60	4558.4	3.0	82.0	0	30	30	0	4558.4	3.0		82
Tehama County APCD	MFH	20	20	0	60	4558.4	3.0	82.0	0	30	30	0	4558.4	3.0		82
Trinity	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Tulare	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Tuolumne County APCD	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Tuolumne	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Ventura County APCD	MFH	0	0	0	100	0	0.0	0.0	0	0	0	0	0.0	0.0		0
Ventura	MFH	0	0	0	100	0	0.0	0.0	0	0	0	0	0.0	0.0		0
Yolo	MFH	35	55	0	10	4558.4	3.0	82.0	0	5	5	0	4558.4	3.0		82
Yolo/Solano AQMD	MFH	35	55	0	10	4558.4	3.0	82.0	0	5	5	0	4558.4	3.0		82
Yuba	MFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Amador County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Alameda	SFH	43	25	0	8	228.8	3.5	11.1	0	4	4	0	956.8	8.5		21
Alpine	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Amador	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Antelope Valley APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Bay Area AQMD	SFH	43	25	0	8	228.8	3.5	11.1	0	4	4	0	956.8	8.5		21
Butte County AQMD	SFH	39	43	0	18	5158.4	3.7	150.0	0	9	9	0	3019.2	7.3		150
Butte	SFH	39	43	0	18	5158.4	3.7	150.0	0	9	9	0	3019.2	7.3		150
Calaveras	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Contra Costa	SFH	43	25	0	8	228.8	3.5	11.1	0	4	4	0	956.8	8.5		21
Colusa County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Calaveras County AQMD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Colusa	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Del Norte	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
El Dorado County AQMD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
El Dorado-Lake Tahoe	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
El Dorado-Mountain County	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Feather River AQMD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Fresno	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Great Basin UAPCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Great Basin Valleys	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Glenn County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Glenn	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82

Table 5.1 Hearth Usage

Name	Multi or Single Family Home	Wood Hearth %	Natural Gas %	Propane %	No Hearth %	Wood Mass Fireplace	Hours/day Fireplace	Day/year Fireplace	Wood Stove Conventional %	Wood Stove Catalytic %	WoodStove NonCatalytic %	Wood Stove Pellet %	Wood mass Stove	Hours/day Stove	Hours/year Stove	Days/Year Stove
Humboldt	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Imperial County APCD	SFH	0	55	0	0	2080	2.8	4.3	0	0	0	0	0.0	0.0		0
Imperial	SFH	0	55	0	0	2080	2.8	4.3	0	0	0	0	0.0	0.0		0
Inyo	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Kern County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Kern-Mojave Desert	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Kern-San Joaquin	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Kings	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Lake	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Los Angeles-Mojave Desert	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Los Angeles-South Coast	SFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
Lassen	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Lake County	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Lassen County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Lake County AQMD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Lake Tahoe	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Madera	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Mariposa County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Marin	SFH	43	25	0	8	228.8	3.5	11.1	0	4	4	0	956.8	8.5		21
Mariposa	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Monterey Bay Unified APCD	SFH	35	55	0	10	1508	3.0	82.0	0	5	5	0	3120.0	3.0		82
Mountain Counties	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Mendocino County AQMD	SFH	35	30	0	35	4992	3.0	116.7	0	40	40	0	4896.0	3.0		117
Mojave Desert	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Mojave Desert AQMD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Mendocino-Coastal	SFH	35	30	0	35	4992	3.0	116.7	0	40	40	0	4896.0	3.0		117
Mendocino-Inland	SFH	35	30	0	35	4992	3.0	116.7	0	40	40	0	4896.0	3.0		117
Mendocino-Rural Inland North	SFH	35	30	0	35	4992	3.0	116.7	0	40	40	0	4896.0	3.0		117
Mendocino-Rural Inland South	SFH	35	30	0	35	4992	3.0	116.7	0	40	40	0	4896.0	3.0		117
Merced	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Modoc	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Modoc County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Mono	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Monterey	SFH	31	63	0	6	1508	3.0	82.0	0	3	3	0	3120.0	3.0		82
Napa	SFH	43	25	0	8	228.8	3.5	11.1	0	4	4	0	956.8	8.5		21
North Coast	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
North Coast Unified APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
North Central Coast	SFH	35	55	0	10	1508	3.0	82.0	0	5	5	0	3120.0	3.0		82
Nevada	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Northeast Plateau	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Northern Sierra AQMD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Northern Sonoma County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Orange	SFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
Placer County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Placer-Lake Tahoe	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Placer-Mountain Counties	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Placer-Sacramento	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Plumas	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Riverside-Mojave Desert MDAQMD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Riverside-South Coast	SFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
Riverside-Mojave Desert South Coast AQMD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Riverside-Salton Sea	SFH	10	80	0	10	457.6	3.0	82.0	0	5	5	0	999.6	3.0		82
Sacramento	SFH	0	0	0	100	0	0.0	0.0	0	0	0	0	0.0	0.0		0
Santa Barbara County APCD	SFH	0	0	0	0	0	3.0	82.0	0	0	0	0	0.0	3.0		82

Table 5.1 Hearth Usage

Name	Multi or Single Family Home	Wood Hearth %	Natural Gas %	Propane %	No Hearth %	Wood Mass Fireplace	Hours/day Fireplace	Day/year Fireplace	Wood Stove Conventional %	Wood Stove Catalytic %	WoodStove NonCatalytic %	Wood Stove Pellet %	Wood mass Stove	Hours/day Stove	Hours/year Stove	Days/Year Stove
San Benito	SFH	32	60	0	8	1508	3.0	82.0	0	4	4	0	3120.0	3.0		82
San Bernardino-Mojave Desert	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Bernardino-South Coast	SFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
Santa Barbara-North of Santa Ynez	SFH	0	0	0	0	0	3.0	82.0	0	0	0	0	0.0	3.0		82
Santa Barbara-South of Santa Ynez Range	SFH	0	0	0	0	0	3.0	82.0	0	0	0	0	0.0	3.0		82
South Coast	SFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
Siskiyou County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
South Coast AQMD	SFH	5	85	0	10	1019.2	3.0	25.0	0	5	5	0	999.6	3.0		25
South Central Coast	SFH	0	0	0	0	3078.4	3.0	82.0	0	0	0	0	3019.2	3.0		82
Santa Clara	SFH	43	25	0	8	228.8	3.5	11.1	0	4	4	0	956.8	8.5		21
Santa Cruz	SFH	43	46	0	11	1508	3.0	82.0	0	5.5	5.5	0	3120.0	3.0		82
San Diego	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Diego	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Diego County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Francisco	SFH	43	25	0	8	228.8	3.5	11.1	0	4	4	0	956.8	8.5		21
San Francisco Bay Area	SFH	43	25	0	8	228.8	3.5	11.1	0	4	4	0	956.8	8.5		21
Shasta	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Shasta County AQMD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Sierra	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Siskiyou	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Joaquin	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Joaquin Valley	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Joaquin Valley Unified APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
San Luis Obispo	SFH	0	0	0	0	0	0.0	0.0	0	0	0	0	2016.0	8.0		60
San Luis Obispo County APCD	SFH	0	0	0	0	0	0.0	0.0	0	0	0	0	2016.0	8.0		60
San Mateo	SFH	43	25	0	8	228.8	3.5	11.1	0	4	4	0	956.8	8.5		21
Sacramento Metropolitan AQMD	SFH	0	0	0	100	0	0.0	0.0	0	0	0	0	0.0	0.0		0
Solano-San Francisco	SFH	43	25	0	8	228.8	3.5	11.1	0	4	4	0	956.8	8.5		21
Solano-Sacramento	SFH	31	NULL	0	69	520	3.0	82.0	0	2.5	2.5	0	3120.0	3.0		82
Sonoma-North Coast	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Sonoma-San Francisco	SFH	43	25	0	8	228.8	3.5	11.1	0	4	4	0	956.8	8.5		21
Salton Sea	SFH	0	55	0	0	2080	2.8	4.3	0	0	0	0	0.0	0.0		0
Stanislaus	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Statewide	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Sutter	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Sacramento Valley	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Tehama	SFH	20	20	0	60	4558.4	3.0	82.0	0	30	30	0	4558.4	3.0		82
Tehama County APCD	SFH	20	20	0	60	4558.4	3.0	82.0	0	30	30	0	4558.4	3.0		82
Trinity	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Tulare	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Tuolumne County APCD	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Tuolumne	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82
Ventura County APCD	SFH	0	0	0	100	0	0.0	0.0	0	0	0	0	0.0	0.0		0
Ventura	SFH	0	0	0	100	0	0.0	0.0	0	0	0	0	0.0	0.0		0
Yolo	SFH	31	NULL	0	69	520	3.0	82.0	0	2.5	2.5	0	3120.0	3.0		82
Yolo/Solano AQMD	SFH	31	NULL	0	69	520	3.0	82.0	0	2.5	2.5	0	3120.0	3.0		82
Yuba	SFH	35	55	0	10	3078.4	3.0	82.0	0	5	5	0	3019.2	3.0		82

Table 5.2 Hearth Emission Factors

Hearth Type	TOG, lb/ton of dry wood burned	ROG, lb/ton of dry wood burned	CO, lb/ton of dry wood burned	SO ₂ , lb/ton of dry wood burned	NO _X , lb/ton of dry wood burned	PM ₁₀ , lb/ton of dry wood burned	PM _{2.5} , lb/ton of dry wood burned	PB, lb/ton of dry wood burned	CO ₂ _BIO, lb/ton of dry wood burned	CO ₂ _NBIO, lb/ton of dry wood burned	CH ₄ , lb/ton of dry wood burned	N ₂ O, lb/ton of dry wood burned
Woodstoves Conventional	83	53	230.8	0.4	2.8	30.6	30.6	0	2952	0	30	0
Woodstoves Catalytic	26.6	15	104.4	0.4	2	20.4	20.4	0	2952	0	11.6	0
Woodstoves Noncatalytic	28	12	140.8	0.4	2	19.6	19.6	0	2952	0	16	0
Woodstoves Pellet	28	15	39.4	0.4	13.8	4.2	4.2	0	2952	0	16	0
Wood Fireplace	229	229	252.6	0.4	2.6	34.6	34.6	0	3400	0	0	0.3
Natural Gas	0.01078431	0.01078431	0.03921569	0.00058824	0.09215686	0.00745098	0.00745098	4.90E-07	0	117.647059	0.0022549	0.00215686
Propane	0.01092896	0.01092896	0.08196721	0	0.1420765	0.00765027	0.00765027	0	0	136.612022	0.00218579	0.00983607
No Fireplace	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

1. Values are based on AP-42 emission factors.

Appendix D: Default Data Tables

Table 6.1 Architectural Coating Emission Factors

Name	EMFAC_ID	CoatingType	Start Date	End Date	ROG, g/L	Rule Name	Amended Date
Amador County APCD	ACAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	ACAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	ACAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	ACAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Alameda	ALA	Nonresidential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	ALA	Nonresidential Exterior	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	ALA	Nonresidential Interior	1/1/1900	12/31/2011	250	Default	NULL
	ALA	Nonresidential Interior	1/1/2012	12/31/2040	100	REG8.3	7/1/2009
	ALA	Parking	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	ALA	Residential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	ALA	Residential Exterior	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	ALA	Residential Interior	1/1/1900	12/31/2011	250	Default	NULL
	ALA	Residential Interior	1/1/2012	12/31/2040	100	REG8.3	7/1/2009
	Alpine	ALP	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
ALP		Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
ALP		Parking	1/1/1900	12/31/3000	250	Default	NULL
ALP		Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Amador	AMA	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	AMA	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	AMA	Parking	1/1/1900	12/31/3000	250	Default	NULL
	AMA	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Antelope Valley APCD	AVAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	AVAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	AVAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	AVAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Bay Area AQMD	BAAQMD	Nonresidential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	BAAQMD	Nonresidential Exterior	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	BAAQMD	Nonresidential Interior	1/1/1900	12/31/2011	250	Default	NULL
	BAAQMD	Nonresidential Interior	1/1/2012	12/31/2040	100	REG8.3	7/1/2009
	BAAQMD	Parking	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	BAAQMD	Residential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	BAAQMD	Residential Exterior	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	BAAQMD	Residential Interior	1/1/1900	12/31/2011	250	Default	NULL
	BAAQMD	Residential Interior	1/1/2012	12/31/2040	100	REG8.3	7/1/2009
	BAAQMD	Residential Interior	1/1/1900	12/31/3000	150	R230	4/25/2002
Butte County AQMD	BCAQMD	Nonresidential Exterior	1/1/1900	12/31/3000	150	R231	4/25/2002
	BCAQMD	Parking	1/1/1900	12/31/3000	150	R232	4/25/2002
	BCAQMD	Residential Exterior	1/1/1900	12/31/3000	150	R233	4/25/2002
	BCAQMD	Residential Interior	1/1/1900	12/31/3000	150	R234	4/25/2002
Butte	BUT	Nonresidential Exterior	1/1/1900	12/31/3000	150	R235	4/25/2002
	BUT	Nonresidential Interior	1/1/1900	12/31/3000	150	R236	4/25/2002
	BUT	Parking	1/1/1900	12/31/3000	150	R237	4/25/2002
	BUT	Residential Exterior	1/1/1900	12/31/3000	150	R238	4/25/2002
Calaveras	CAL	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	CAL	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	CAL	Parking	1/1/1900	12/31/3000	250	Default	NULL
	CAL	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Contra Costa	CC	Nonresidential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	CC	Nonresidential Exterior	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	CC	Nonresidential Interior	1/1/1900	12/31/2011	250	Default	NULL
	CC	Nonresidential Interior	1/1/2012	12/31/2040	100	REG8.3	7/1/2009
	CC	Parking	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	CC	Residential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	CC	Residential Exterior	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	CC	Residential Interior	1/1/1900	12/31/2011	250	Default	NULL
Colusa County APCD	CCAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	CCAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	CCAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	CCAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Calaveras County AQMD	CCAQMD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	CCAQMD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	CCAQMD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	CCAQMD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Colusa	COL	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	COL	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	COL	Parking	1/1/1900	12/31/3000	250	Default	NULL
	COL	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Del Norte	DN	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	DN	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	DN	Parking	1/1/1900	12/31/3000	250	Default	NULL
	DN	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
El Dorado County AQMD	EDCAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	EDCAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	EDCAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	EDCAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
El Dorado-Lake Tahoe	ELDORLT	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	ELDORLT	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	ELDORLT	Parking	1/1/1900	12/31/3000	250	Default	NULL
	ELDORLT	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
El Dorado-Mountain County	ELDORMC	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	ELDORMC	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	ELDORMC	Parking	1/1/1900	12/31/3000	250	Default	NULL
	ELDORMC	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Feather River AQMD	FRAQMD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	FRAQMD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	FRAQMD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	FRAQMD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Fresno	FRES	Nonresidential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	FRES	Nonresidential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	FRES	Nonresidential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	FRES	Nonresidential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	FRES	Parking	1/1/2011	12/31/3000	150	R4601	12/17/2009
	FRES	Residential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	FRES	Residential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	FRES	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
Great Basin UAPCD	GBUAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	GBUAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	GBUAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	GBUAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Great Basin Valleys	GBV	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	GBV	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	GBV	Parking	1/1/1900	12/31/3000	250	Default	NULL
	GBV	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Glenn County APCD	GCAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	GCAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	GCAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	GCAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Glenn	GLENN	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	GLENN	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	GLENN	Parking	1/1/1900	12/31/3000	250	Default	NULL
	GLENN	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL

Table 6.1 Architectural Coating Emission Factors

Name	EMFAC_ID	CoatingType	Start Date	End Date	ROG, g/L	Rule Name	Amended Date
Glenn	GLENN	Parking	1/1/1900	12/31/3000	250	Default	NULL
	GLENN	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	GLENN	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Humboldt	HUM	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	HUM	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	HUM	Parking	1/1/1900	12/31/3000	250	Default	NULL
	HUM	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	HUM	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Imperial County APCD	ICAPCD	Nonresidential Exterior	1/1/2011	12/31/2040	150	Default	2/23/2010
	ICAPCD	Nonresidential Exterior	1/1/2011	12/31/2040	150	R424	2/23/2010
	ICAPCD	Nonresidential Interior	1/1/2011	12/31/2040	150	Default	2/23/2010
	ICAPCD	Nonresidential Interior	1/1/2011	12/31/2040	150	R424	2/23/2010
	ICAPCD	Parking	1/1/2011	12/31/2040	150	Default	2/23/2010
	ICAPCD	Residential Exterior	1/1/2011	12/31/2040	100	Default	2/23/2010
	ICAPCD	Residential Exterior	1/1/2011	12/31/2040	100	R424	2/23/2010
	ICAPCD	Residential Interior	1/1/2011	12/31/2040	100	Default	2/23/2010
	ICAPCD	Residential Interior	1/1/2011	12/31/2040	100	R424	2/23/2010
	ICAPCD	Residential Interior	1/1/2011	12/31/2040	100	Default	2/23/2010
Imperial	IMP	Nonresidential Exterior	1/1/2011	12/31/2040	150	Default	2/23/2010
	IMP	Nonresidential Exterior	1/1/2011	12/31/2040	150	R424	2/23/2010
	IMP	Nonresidential Interior	1/1/2011	12/31/2040	150	Default	2/23/2010
	IMP	Nonresidential Interior	1/1/2011	12/31/2040	150	R424	2/23/2010
	IMP	Parking	1/1/2011	12/31/2040	150	Default	2/23/2010
	IMP	Residential Exterior	1/1/2011	12/31/2040	100	Default	2/23/2010
	IMP	Residential Exterior	1/1/2011	12/31/2040	100	R424	2/23/2010
Inyo	INY	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	INY	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	INY	Parking	1/1/1900	12/31/3000	250	Default	NULL
	INY	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	INY	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Kern County APCD	KCAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	KCAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	KCAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	KCAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Kern-Mojave Desert	KERNMD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	KERNMD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	KERNMD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	KERNMD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Kern-San Joaquin	KERNMJ	Nonresidential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	KERNMJ	Nonresidential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	KERNMJ	Nonresidential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	KERNMJ	Nonresidential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	KERNMJ	Parking	1/1/2011	12/31/3000	150	R4601	12/17/2009
	KERNMJ	Residential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	KERNMJ	Residential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	KERNMJ	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	KERNMJ	Residential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	KERNMJ	Residential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
Kings	KING	Nonresidential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	KING	Nonresidential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	KING	Nonresidential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	KING	Nonresidential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	KING	Parking	1/1/2011	12/31/3000	150	R4601	12/17/2009
	KING	Residential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	KING	Residential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	KING	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	KING	Residential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	KING	Residential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
Lake	LAKE	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	LAKE	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	LAKE	Parking	1/1/1900	12/31/3000	250	Default	NULL
	LAKE	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Los Angeles-Mojave Desert	LAMD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	LAMD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	LAMD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	LAMD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	LAMD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Los Angeles-South Coast	LASC	Nonresidential Exterior	1/1/1900	12/31/2013	250	NULL	NULL
	LASC	Nonresidential Interior	1/1/1900	12/31/2013	250	NULL	NULL
	LASC	Nonresidential Exterior	1/1/2014	12/31/3000	100	NULL	NULL
	LASC	Residential Exterior	1/1/1900	12/31/3000	250	NULL	NULL
	LASC	Residential Exterior	1/1/1900	6/30/2008	250	NULL	NULL
	LASC	Residential Exterior	7/1/2008	12/31/2013	100	NULL	NULL
	LASC	Residential Interior	7/1/2008	12/31/2013	50	NULL	NULL
	LASC	Residential Exterior	1/1/2014	12/31/3000	50	NULL	NULL
	LASC	Residential Interior	1/1/2014	12/31/3000	50	NULL	NULL
	LASC	Parking	1/1/1900	12/31/3000	100	NULL	NULL
Lassen	LASS	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	LASS	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	LASS	Parking	1/1/1900	12/31/3000	250	Default	NULL
	LASS	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Lake County	LC	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	LC	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	LC	Parking	1/1/1900	12/31/3000	250	Default	NULL
	LC	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Lassen County APCD	LCAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	LCAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	LCAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	LCAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	LCAPCD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Lake County AQMD	LCAQMD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	LCAQMD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	LCAQMD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	LCAQMD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	LCAQMD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Lake Tahoe	LT	Nonresidential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	LT	Nonresidential Interior	1/1/1900	6/30/2010	250	Default	NULL
	LT	Residential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	LT	Residential Interior	1/1/1900	6/30/2010	250	Default	NULL
	LT	Nonresidential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	LT	Nonresidential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	LT	Residential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	LT	Residential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	LT	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
Madera	MAD	Nonresidential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	MAD	Nonresidential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	MAD	Nonresidential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	MAD	Nonresidential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	MAD	Parking	1/1/2011	12/31/3000	150	R4601	12/17/2009
	MAD	Residential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	MAD	Residential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
Mariposa County APCD	MARCAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MARCAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MARCAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MARCAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MARCAPCD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MARIN	Nonresidential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	MARIN	Nonresidential Interior	1/1/2012	12/31/2040	100	REG8.3	7/1/2009
Marin	MARIN	Nonresidential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	MARIN	Parking	1/1/2012	12/31/2040	150	REG8.3	7/1/2009

Appendix D: Default Data Tables

Table 6.1 Architectural Coating Emission Factors

Name	EMFAC_ID	CoatingType	Start Date	End Date	ROG, g/L	Rule Name	Amended Date
Mariposa	MARIN	Residential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	MARIN	Residential Exterior	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	MARIN	Residential Interior	1/1/1900	12/31/2011	250	Default	NULL
	MARIN	Residential Interior	1/1/2012	12/31/2040	100	REG8.3	7/1/2009
	MARIP	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MARIP	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MARIP	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MARIP	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MARIP	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MARIP	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Monterey Bay Unified APCD	MBUAPCD	Nonresidential Exterior	1/1/1900	12/31/2012	250	Default	NULL
	MBUAPCD	Nonresidential Interior	1/1/1900	12/31/2012	250	Default	NULL
	MBUAPCD	Residential Exterior	1/1/1900	12/31/2012	250	Default	NULL
	MBUAPCD	Residential Interior	1/1/1900	12/31/2012	250	Default	NULL
	MBUAPCD	Nonresidential Exterior	1/1/2013	12/31/3000	150	R426	1/1/1900
	MBUAPCD	Nonresidential Interior	1/1/2013	12/31/3000	150	R426	1/1/1900
	MBUAPCD	Residential Exterior	1/1/2013	12/31/3000	100	R426	1/1/1900
	MBUAPCD	Residential Interior	1/1/2013	12/31/3000	100	R426	1/1/1900
	MBUAPCD	Parking	1/1/1900	12/31/3000	150	R426	1/1/1900
	MBUAPCD	Parking	1/1/1900	12/31/3000	150	R426	1/1/1900
Mountain Counties	MC	Nonresidential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	MC	Nonresidential Interior	1/1/1900	6/30/2010	250	Default	NULL
	MC	Residential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	MC	Residential Interior	1/1/1900	6/30/2010	250	Default	NULL
	MC	Nonresidential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	MC	Nonresidential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	MC	Residential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	MC	Residential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	MC	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
	MC	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
Mendocino County AQMD	MCAQMD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MCAQMD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MCAQMD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MCAQMD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MCAQMD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Mojave Desert	MD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Mojave Desert AQMD	MDAQMD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MDAQMD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MDAQMD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MDAQMD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MDAQMD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Mendocino-Coastal	MENC	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MENC	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MENC	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MENC	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MENC	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Mendocino-Inland	MENI	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MENI	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MENI	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MENI	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MENI	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Mendocino-Rural Inland North	MENRN	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MENRN	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MENRN	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MENRN	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MENRN	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Mendocino-Rural Inland South	MENRS	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MENRS	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MENRS	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MENRS	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MENRS	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Merced	MER	Nonresidential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	MER	Nonresidential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	MER	Nonresidential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	MER	Nonresidential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	MER	Parking	1/1/2011	12/31/3000	150	R4601	12/17/2009
	MER	Residential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	MER	Residential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	MER	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	MER	Residential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	MER	Residential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
Modoc	MOD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MOD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MOD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MOD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MOD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Modoc County APCD	MODCAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MODCAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MODCAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MODCAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MODCAPCD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Mono	MONO	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MONO	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	MONO	Parking	1/1/1900	12/31/3000	250	Default	NULL
	MONO	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	MONO	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Monterey	MONT	Nonresidential Exterior	1/1/1900	12/31/2012	250	Default	NULL
	MONT	Nonresidential Interior	1/1/1900	12/31/2012	250	Default	NULL
	MONT	Residential Exterior	1/1/1900	12/31/2012	250	Default	NULL
	MONT	Residential Interior	1/1/1900	12/31/2012	250	Default	NULL
	MONT	Nonresidential Exterior	1/1/2013	12/31/3000	150	R426	1/1/1900
	MONT	Nonresidential Interior	1/1/2013	12/31/3000	150	R426	1/1/1900
	MONT	Residential Exterior	1/1/2013	12/31/3000	100	R426	1/1/1900
Napa	MONT	Residential Interior	1/1/2013	12/31/3000	100	R426	1/1/1900
	MONT	Parking	1/1/1900	12/31/3000	150	R426	1/1/1900
	NAPA	Nonresidential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	NAPA	Nonresidential Exterior	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	NAPA	Nonresidential Interior	1/1/1900	12/31/2011	250	Default	NULL
	NAPA	Nonresidential Interior	1/1/2012	12/31/2040	100	REG8.3	7/1/2009
	NAPA	Parking	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	NAPA	Residential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	NAPA	Residential Exterior	1/1/2012	12/31/2040	150	REG8.3	7/1/2009
	NAPA	Residential Interior	1/1/1900	12/31/2011	250	Default	NULL
North Coast	NAPC	Nonresidential Exterior	1/1/1900	12/31/2040	100	REG8.3	7/1/2009
	NAPC	Nonresidential Interior	1/1/1900	12/31/2040	100	REG8.3	7/1/2009
	NC	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	NC	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	NC	Parking	1/1/1900	12/31/3000	250	Default	NULL
North Coast Unified APCD	NC	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	NC	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	NC	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	NCAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	NCAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	NCAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	NCAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
North Central Coast	NCAPCD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	NCC	Nonresidential Exterior	1/1/1900	12/31/2012	250	Default	NULL
	NCC	Nonresidential Interior	1/1/1900	12/31/2012	250	Default	NULL
	NCC	Residential Exterior	1/1/1900	12/31/2012	250	Default	NULL
	NCC	Residential Interior	1/1/1900	12/31/2012	250	Default	NULL
	NCC	Nonresidential Exterior	1/1/2013	12/31/3000	150	R426	1/1/1900
	NCC	Nonresidential Interior	1/1/2013	12/31/3000	150	R426	1/1/1900
	NCC	Residential Exterior	1/1/2013	12/31/3000	100	R426	1/1/1900
	NCC	Residential Interior	1/1/2013	12/31/3000	100	R426	1/1/1900
	NCC	Parking	1/1/1900	12/31/3000	150	R426	1/1/1900
Nevada	NEV	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	NEV	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	NEV	Parking	1/1/1900	12/31/3000	250	Default	NULL
	NEV	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	NEV	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL

Table 6.1 Architectural Coating Emission Factors

Name	EMFAC_ID	CoatingType	Start Date	End Date	ROG, g/L	Rule Name	Amended Date
Northeast Plateau	NP	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	NP	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	NP	Parking	1/1/1900	12/31/3000	250	Default	NULL
	NP	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	NP	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Northern Sierra AQMD	NSAQMD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	NSAQMD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	NSAQMD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	NSAQMD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	NSAQMD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Northern Sonoma County APCD	NSCAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	NSCAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	NSCAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	NSCAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	NSCAPCD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Orange	ORA	Nonresidential Exterior	1/1/1900	12/31/2013	250		NULL
	ORA	Nonresidential Interior	1/1/1900	12/31/2013	250		NULL
	ORA	Nonresidential Exterior	1/1/2014	12/31/3000	100		NULL
	ORA	Nonresidential Interior	1/1/2014	12/31/3000	100		NULL
	ORA	Residential Exterior	1/1/1900	6/30/2008	250		NULL
	ORA	Residential Interior	1/1/1900	6/30/2008	100		NULL
	ORA	Residential Exterior	7/1/2008	12/31/2013	100		NULL
	ORA	Residential Interior	7/1/2008	12/31/2013	50		NULL
	ORA	Residential Exterior	1/1/2014	12/31/3000	50		NULL
	ORA	Residential Interior	1/1/2014	12/31/3000	50		NULL
	ORA	Parking	1/1/1900	12/31/3000	100		NULL
Placer County APCD	PCAPCD	Nonresidential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	PCAPCD	Nonresidential Interior	1/1/1900	6/30/2010	250	Default	NULL
	PCAPCD	Residential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	PCAPCD	Residential Interior	1/1/1900	6/30/2010	250	Default	NULL
	PCAPCD	Nonresidential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PCAPCD	Nonresidential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PCAPCD	Residential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PCAPCD	Residential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PCAPCD	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
	PCAPCD	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
Placer-Lake Tahoe	PLACERLT	Nonresidential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERLT	Nonresidential Interior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERLT	Residential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERLT	Residential Interior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERLT	Nonresidential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERLT	Nonresidential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERLT	Residential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERLT	Residential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERLT	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
	PLACERLT	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
Placer-Mountain Counties	PLACERMC	Nonresidential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERMC	Nonresidential Interior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERMC	Residential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERMC	Residential Interior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERMC	Nonresidential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERMC	Nonresidential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERMC	Residential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERMC	Residential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERMC	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
	PLACERMC	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
Placer-Sacramento	PLACERSJ	Nonresidential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERSJ	Nonresidential Interior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERSJ	Residential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERSJ	Residential Interior	1/1/1900	6/30/2010	250	Default	NULL
	PLACERSJ	Nonresidential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERSJ	Nonresidential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERSJ	Residential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERSJ	Residential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	PLACERSJ	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
	PLACERSJ	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
Plumas	PLU	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	PLU	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	PLU	Parking	1/1/1900	12/31/3000	250	Default	NULL
	PLU	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	PLU	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Riverside-Mojave Desert MDAQMD	RIVMDAQMD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	RIVMDAQMD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	RIVMDAQMD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	RIVMDAQMD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	RIVMDAQMD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Riverside-South Coast	RVSC	Nonresidential Exterior	1/1/1900	12/31/2013	250		NULL
	RVSC	Nonresidential Interior	1/1/1900	12/31/2013	250		NULL
	RVSC	Nonresidential Exterior	1/1/2014	12/31/3000	100		NULL
	RVSC	Nonresidential Interior	1/1/2014	12/31/3000	100		NULL
	RVSC	Residential Exterior	1/1/1900	6/30/2008	250		NULL
	RVSC	Residential Interior	1/1/1900	6/30/2008	100		NULL
	RVSC	Residential Exterior	7/1/2008	12/31/2013	100		NULL
	RVSC	Residential Interior	7/1/2008	12/31/2013	50		NULL
	RVSC	Residential Exterior	1/1/2014	12/31/3000	50		NULL
	RVSC	Residential Interior	1/1/2014	12/31/3000	50		NULL
	RVSC	Parking	1/1/1900	12/31/3000	100		NULL
	RVSC	Parking	1/1/1900	12/31/3000	100		NULL
	RVSC	Parking	1/1/1900	12/31/3000	100		NULL
Riverside-Mojave Desert South Coast AQMD	RIVSCAQMD	Nonresidential Exterior	1/1/1900	12/31/2013	250		NULL
	RIVSCAQMD	Nonresidential Interior	1/1/1900	12/31/2013	250		NULL
	RIVSCAQMD	Nonresidential Exterior	1/1/2014	12/31/3000	100		NULL
	RIVSCAQMD	Nonresidential Interior	1/1/2014	12/31/3000	100		NULL
	RIVSCAQMD	Residential Exterior	1/1/1900	6/30/2008	250		NULL
	RIVSCAQMD	Residential Interior	1/1/1900	6/30/2008	100		NULL
	RIVSCAQMD	Residential Exterior	7/1/2008	12/31/2013	100		NULL
	RIVSCAQMD	Residential Interior	7/1/2008	12/31/2013	50		NULL
	RIVSCAQMD	Residential Exterior	1/1/2014	12/31/3000	50		NULL
	RIVSCAQMD	Residential Interior	1/1/2014	12/31/3000	50		NULL
	RIVSCAQMD	Parking	1/1/1900	12/31/3000	100		NULL
	RIVSCAQMD	Parking	1/1/1900	12/31/3000	100		NULL
	RIVSCAQMD	Parking	1/1/1900	12/31/3000	100		NULL
Riverside-Salton Sea	RIVSS	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	RIVSS	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	RIVSS	Parking	1/1/1900	12/31/3000	250	Default	NULL
	RIVSS	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	RIVSS	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Sacramento	SAC	Nonresidential Exterior	1/1/1900	12/31/2002	250	Default	NULL
	SAC	Nonresidential Interior	1/1/1900	12/31/2002	250	Default	NULL
	SAC	Residential Exterior	1/1/1900	12/31/2002	250	Default	NULL
	SAC	Residential Interior	1/1/1900	12/31/2002	250	Default	NULL
	SAC	Nonresidential Exterior	1/1/2003	3/23/2016	150	R442	1/1/1900
	SAC	Nonresidential Interior	1/1/2003	3/23/2016	150	R442	1/1/1900
	SAC	Residential Exterior	1/1/2003	3/23/2016	100	R442	1/1/1900
	SAC	Residential Interior	1/1/2003	3/23/2016	100	R442	1/1/1900
	SAC	Nonresidential Exterior	3/24/2016	12/31/3000	100	R442	1/1/1900
	SAC	Nonresidential Interior	3/24/2016	12/31/3000	100	R442	1/1/1900
	SAC	Residential Exterior	3/24/2016	12/31/3000	100	R442	1/1/1900
	SAC	Residential Interior	3/24/2016	12/31/3000	100	R442	1/1/1900
	SAC	Parking	1/1/1900	12/31/3000	100	R442	1/1/1900
Santa Barbara County APCD	SBCAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Rule 323.1	1/1/1900
	SBCAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Rule 323.1	1/1/1900
	SBCAPCD	Residential Exterior	1/1/1900	12/31/2014	250	Rule 323.1	1/1/1900
	SBCAPCD	Residential Interior	1/1/1900	12/31/2014	250	Rule 323.1	1/1/1900
	SBCAPCD	Residential Exterior	1/1/2015	12/31/3000	100	Rule 323.1	1/1/1900
	SBCAPCD	Residential Interior	1/1/2015	12/31/3000	50	Rule 323.1	1/1/1900
	SBCAPCD	Parking	1/1/1900	12/31/3000	250	Rule 323.1	1/1/1900
	SBCAPCD	Parking	1/1/1900	12/31/3000	250	Rule 323.1	1/1/1900
San Benito	SBEN	Nonresidential Exterior	1/1/1900	12/31/2012	250	Default	NULL
	SBEN	Nonresidential Interior	1/1/1900	12/31/2012	250	Default	NULL
	SBEN	Residential Exterior	1/1/1900	12/31/2012	250	Default	NULL
	SBEN	Residential Interior	1/1/1900	12/31/2012	250	Default	NULL
	SBEN	Nonresidential Exterior	1/1/2013	12/31/3000	150	R426	1/1/1900
	SBEN	Nonresidential Interior	1/1/2013	12/31/3000	150	R426	1/1/1900
	SBEN	Residential Exterior	1/1/2013	12/31/3000	100	R426	1/1/1900
	SBEN	Residential Interior	1/1/2013	12/31/3000	100	R426	1/1/1900
SBEN	Parking	1/1/1900	12/31/3000	150	R426	1/1/1900	

Table 6.1 Architectural Coating Emission Factors

Name	EMFAC_ID	CoatingType	Start Date	End Date	ROG, g/L	Rule Name	Amended Date
San Bernardino-Mojave Desert	SBERNMD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SBERNMD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SBERNMD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	SBERNMD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
San Bernardino-South Coast	SBERNSC	Nonresidential Exterior	1/1/1900	12/31/2013	250		NULL
	SBERNSC	Nonresidential Interior	1/1/1900	12/31/2013	250		NULL
	SBERNSC	Nonresidential Exterior	1/1/2014	12/31/3000	100		NULL
	SBERNSC	Nonresidential Interior	1/1/2014	12/31/3000	100		NULL
	SBERNSC	Residential Exterior	1/1/1900	6/30/2008	250		NULL
	SBERNSC	Residential Interior	1/1/1900	6/30/2008	100		NULL
	SBERNSC	Residential Exterior	7/1/2008	12/31/2013	100		NULL
	SBERNSC	Residential Interior	7/1/2008	12/31/2013	50		NULL
	SBERNSC	Residential Exterior	1/1/2014	12/31/3000	50		NULL
	SBERNSC	Residential Interior	1/1/2014	12/31/3000	50		NULL
	SBERNSC	Parking	1/1/1900	12/31/3000	100		NULL
	Santa Barbara-North of Santa Ynez	SBN	Nonresidential Exterior	1/1/1900	12/31/3000	250	Rule 323.1	1/1/1900
SBN		Nonresidential Interior	1/1/1900	12/31/3000	250	Rule 323.1	1/1/1900
SBN		Residential Exterior	1/1/1900	12/31/2014	250	Rule 323	1/1/1900
SBN		Residential Interior	1/1/1900	12/31/2014	250	Rule 323	1/1/1900
SBN		Residential Exterior	1/1/2015	12/31/3000	100	Rule 323.1	1/1/1900
SBN		Residential Interior	1/1/2015	12/31/3000	50	Rule 323.1	1/1/1900
SBN		Parking	1/1/1900	12/31/3000	250	Rule 323.1	1/1/1900
SBS		Nonresidential Exterior	1/1/1900	12/31/3000	250	Rule 323	1/1/1900
SBS		Nonresidential Interior	1/1/1900	12/31/3000	250	Rule 323	1/1/1900
Santa Barbara-South of Santa Ynez Range	SBS	Residential Exterior	1/1/1900	12/31/2014	250	Rule 323	1/1/1900
	SBS	Residential Interior	1/1/1900	12/31/2014	250	Rule 323	1/1/1900
	SBS	Residential Exterior	1/1/2015	12/31/3000	100	Rule 323.1	1/1/1900
	SBS	Residential Interior	1/1/2015	12/31/3000	50	Rule 323.1	1/1/1900
	SBS	Parking	1/1/1900	12/31/3000	250	Rule 323.1	1/1/1900
	SC	Nonresidential Exterior	1/1/1900	12/31/2013	250		NULL
South Coast	SC	Nonresidential Interior	1/1/1900	12/31/2013	250		NULL
	SC	Nonresidential Exterior	1/1/2014	12/31/3000	100		NULL
	SC	Nonresidential Interior	1/1/2014	12/31/3000	100		NULL
	SC	Residential Exterior	1/1/1900	6/30/2008	250		NULL
	SC	Residential Interior	1/1/1900	6/30/2008	100		NULL
	SC	Residential Exterior	7/1/2008	12/31/2013	100		NULL
	SC	Residential Interior	7/1/2008	12/31/2013	50		NULL
	SC	Residential Exterior	1/1/2014	12/31/3000	50		NULL
	SC	Residential Interior	1/1/2014	12/31/3000	50		NULL
	SC	Parking	1/1/1900	12/31/3000	100		NULL
Siskiyou County APCD	SCAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SCAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SCAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	SCAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
South Coast AQMD	SCAQMD	Nonresidential Exterior	1/1/1900	12/31/2013	250		NULL
	SCAQMD	Nonresidential Interior	1/1/1900	12/31/2013	250		NULL
	SCAQMD	Nonresidential Exterior	1/1/2014	12/31/3000	100		NULL
	SCAQMD	Nonresidential Interior	1/1/2014	12/31/3000	100		NULL
	SCAQMD	Residential Exterior	1/1/1900	6/30/2008	250		NULL
	SCAQMD	Residential Interior	1/1/1900	6/30/2008	100		NULL
	SCAQMD	Residential Exterior	7/1/2008	12/31/2013	100		NULL
	SCAQMD	Residential Interior	7/1/2008	12/31/2013	50		NULL
	SCAQMD	Residential Exterior	1/1/2014	12/31/3000	50		NULL
	SCAQMD	Residential Interior	1/1/2014	12/31/3000	50		NULL
South Central Coast	SCC	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SCC	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SCC	Parking	1/1/1900	12/31/3000	250	Default	NULL
	SCC	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SCC	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Santa Clara	SCLARA	Nonresidential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	SCLARA	Nonresidential Interior	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SCLARA	Nonresidential Interior	1/1/1900	12/31/2011	250	Default	NULL
	SCLARA	Nonresidential Interior	1/1/2012	12/31/2040	100	REG.3	7/1/2009
	SCLARA	Parking	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SCLARA	Residential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	SCLARA	Residential Exterior	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SCLARA	Residential Interior	1/1/1900	12/31/2011	250	Default	NULL
	SCLARA	Residential Interior	1/1/2012	12/31/2040	100	REG.3	7/1/2009
Santa Cruz	SCRUZ	Nonresidential Exterior	1/1/1900	12/31/2012	250	Default	NULL
	SCRUZ	Nonresidential Interior	1/1/1900	12/31/2012	250	Default	NULL
	SCRUZ	Residential Exterior	1/1/1900	12/31/2012	250	Default	NULL
	SCRUZ	Residential Interior	1/1/1900	12/31/2012	250	Default	NULL
	SCRUZ	Nonresidential Exterior	1/1/2013	12/31/3000	150	R426	1/1/1900
	SCRUZ	Nonresidential Interior	1/1/2013	12/31/3000	150	R426	1/1/1900
	SCRUZ	Residential Exterior	1/1/2013	12/31/3000	100	R426	1/1/1900
San Diego	SD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	SD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
San Diego	SD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SDAB	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SDAB	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SDAB	Parking	1/1/1900	12/31/3000	250	Default	NULL
San Diego County APCD	SDAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SDAPCD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SDAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SDAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SDAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
San Francisco	SF	Nonresidential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	SF	Nonresidential Exterior	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SF	Nonresidential Interior	1/1/1900	12/31/2011	250	Default	NULL
	SF	Nonresidential Interior	1/1/2012	12/31/2040	100	REG.3	7/1/2009
	SF	Parking	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SF	Residential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	SF	Residential Exterior	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SF	Residential Interior	1/1/1900	12/31/2011	250	Default	NULL
	SF	Residential Interior	1/1/2012	12/31/2040	100	REG.3	7/1/2009
San Francisco Bay Area	SFBA	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SFBA	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SFBA	Parking	1/1/1900	12/31/3000	250	Default	NULL
	SFBA	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Shasta	SHASTA	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SHASTA	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SHASTA	Parking	1/1/1900	12/31/3000	250	Default	NULL
	SHASTA	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SHASTA	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Shasta County AQMD	SHASTAAQMD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SHASTAAQMD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SHASTAAQMD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	SHASTAAQMD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SHASTAAQMD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Sierra	SIERRA	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SIERRA	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SIERRA	Parking	1/1/1900	12/31/3000	250	Default	NULL
	SIERRA	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Siskiyou	SIERRA	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SISK	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SISK	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SISK	Parking	1/1/1900	12/31/3000	250	Default	NULL
Siskiyou	SISK	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL

Appendix D: Default Data Tables

Table 6.1 Architectural Coating Emission Factors

Name	EMFAC_ID	CoatingType	Start Date	End Date	ROG, g/L	Rule Name	Amended Date
San Joaquin	SISK	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SJ	Nonresidential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJ	Nonresidential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJ	Nonresidential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJ	Nonresidential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJ	Parking	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJ	Residential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJ	Residential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJ	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJ	Residential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
San Joaquin Valley	SJV	Nonresidential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJV	Nonresidential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJV	Nonresidential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJV	Nonresidential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJV	Parking	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJV	Residential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJV	Residential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJV	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJV	Residential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJV	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
San Joaquin Valley Unified APCD	SJVUAPCD	Nonresidential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJVUAPCD	Nonresidential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJVUAPCD	Nonresidential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJVUAPCD	Nonresidential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJVUAPCD	Parking	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJVUAPCD	Residential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJVUAPCD	Residential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJVUAPCD	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	SJVUAPCD	Residential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	SJVUAPCD	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
San Luis Obispo	SLO	Nonresidential Exterior	1/1/1900	12/31/2040	250	R433	3/26/2002
	SLO	Nonresidential Interior	1/1/1900	12/31/2040	250	R433	3/26/2002
	SLO	Parking	1/1/1900	12/31/2040	150	R433	3/26/2002
	SLO	Residential Exterior	1/1/1900	12/31/2040	250	R433	3/26/2002
	SLO	Residential Interior	1/1/1900	12/31/2040	250	R433	3/26/2002
	SLO	Residential Interior	1/1/1900	12/31/2040	250	R433	3/26/2002
San Luis Obispo County APCD	SLOCAPCD	Nonresidential Exterior	1/1/1900	12/31/2040	250	R433	3/26/2002
	SLOCAPCD	Nonresidential Interior	1/1/1900	12/31/2040	250	R433	3/26/2002
	SLOCAPCD	Parking	1/1/1900	12/31/2040	150	R433	3/26/2002
	SLOCAPCD	Residential Exterior	1/1/1900	12/31/2040	250	R433	3/26/2002
	SLOCAPCD	Residential Interior	1/1/1900	12/31/2040	250	R433	3/26/2002
	SLOCAPCD	Residential Interior	1/1/1900	12/31/2040	250	R433	3/26/2002
San Mateo	SM	Nonresidential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	SM	Nonresidential Exterior	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SM	Nonresidential Interior	1/1/1900	12/31/2011	250	Default	NULL
	SM	Nonresidential Interior	1/1/2012	12/31/2040	100	REG.3	7/1/2009
	SM	Parking	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SM	Residential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	SM	Residential Exterior	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SM	Residential Interior	1/1/1900	12/31/2011	250	Default	NULL
	SM	Residential Interior	1/1/2012	12/31/2040	100	REG.3	7/1/2009
	SM	Residential Interior	1/1/2012	12/31/2040	100	REG.3	7/1/2009
Sacramento Metropolitan AQMD	SMAQMD	Nonresidential Exterior	1/1/1900	12/31/2002	250	Default	NULL
	SMAQMD	Nonresidential Interior	1/1/1900	12/31/2002	250	Default	NULL
	SMAQMD	Residential Exterior	1/1/1900	12/31/2002	250	Default	NULL
	SMAQMD	Residential Interior	1/1/1900	12/31/2002	250	Default	NULL
	SMAQMD	Nonresidential Exterior	1/1/2003	3/23/2016	150	R442	1/1/1900
	SMAQMD	Nonresidential Interior	1/1/2003	3/23/2016	100	R442	1/1/1900
	SMAQMD	Residential Exterior	1/1/2003	3/23/2016	100	R442	1/1/1900
	SMAQMD	Residential Interior	1/1/2003	3/23/2016	100	R442	1/1/1900
	SMAQMD	Nonresidential Exterior	3/24/2016	12/31/3000	100	R442	1/1/1900
	SMAQMD	Nonresidential Interior	3/24/2016	12/31/3000	100	R442	1/1/1900
Solano-San Francisco	SMAQMD	Residential Exterior	3/24/2016	12/31/3000	100	R442	1/1/1900
	SMAQMD	Residential Interior	3/24/2016	12/31/3000	100	R442	1/1/1900
	SMAQMD	Residential Interior	3/24/2016	12/31/3000	100	R442	1/1/1900
	SMAQMD	Parking	1/1/1900	12/31/3000	100	R442	1/1/1900
	SOLSJ	Nonresidential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	SOLSJ	Nonresidential Exterior	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SOLSJ	Nonresidential Interior	1/1/1900	12/31/2011	250	Default	NULL
	SOLSJ	Nonresidential Interior	1/1/2012	12/31/2040	100	REG.3	7/1/2009
	SOLSJ	Parking	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SOLSJ	Residential Exterior	1/1/1900	12/31/2011	250	Default	NULL
Solano-Sacramento	SOLSJ	Residential Exterior	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SOLSJ	Residential Interior	1/1/1900	12/31/2011	250	Default	NULL
	SOLSJ	Residential Interior	1/1/2012	12/31/2040	100	REG.3	7/1/2009
	SOLSJ	Nonresidential Exterior	1/1/1900	12/31/2003	250	Default	NULL
	SOLSJ	Nonresidential Interior	1/1/1900	12/31/2003	250	Default	NULL
	SOLSJ	Residential Interior	1/1/1900	12/31/2003	250	Default	NULL
	SOLSJ	Nonresidential Exterior	1/1/2004	12/31/2017	150	R2-14	11/14/2001
	SOLSJ	Nonresidential Interior	1/1/2004	12/31/2017	100	R2-14	11/14/2001
	SOLSJ	Residential Exterior	1/1/2004	12/31/2017	150	R2-14	11/14/2001
	SOLSJ	Residential Interior	1/1/2004	12/31/2017	100	R2-14	11/14/2001
Sonoma-North Coast	SOLSJ	Nonresidential Exterior	1/1/2018	12/31/3000	100	R2-14	10/12/2016
	SOLSJ	Nonresidential Interior	1/1/2018	12/31/3000	50	R2-14	10/12/2016
	SOLSJ	Residential Exterior	1/1/2018	12/31/3000	100	R2-14	10/12/2016
	SOLSJ	Residential Interior	1/1/2018	12/31/3000	50	R2-14	10/12/2016
	SOLSJ	Parking	1/1/1900	12/31/2017	150	R2-14	11/14/2001
	SOLSJ	Parking	1/1/2018	12/31/3000	100	R2-14	10/12/2016
	SONNC	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SONNC	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SONNC	Parking	1/1/1900	12/31/3000	250	Default	NULL
	SONNC	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Sonoma-San Francisco	SONNC	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SONSF	Nonresidential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	SONSF	Nonresidential Exterior	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SONSF	Nonresidential Interior	1/1/1900	12/31/2011	250	Default	NULL
	SONSF	Nonresidential Interior	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SONSF	Parking	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SONSF	Residential Exterior	1/1/1900	12/31/2011	250	Default	NULL
	SONSF	Residential Exterior	1/1/2012	12/31/2040	150	REG.3	7/1/2009
	SONSF	Residential Interior	1/1/1900	12/31/2011	250	Default	NULL
	SONSF	Residential Interior	1/1/2012	12/31/2040	100	REG.3	7/1/2009
Salton Sea	SS	Nonresidential Exterior	1/1/1900	12/31/2010	250	Default	NULL
	SS	Nonresidential Interior	1/1/1900	12/31/2010	250	Default	NULL
	SS	Residential Exterior	1/1/1900	12/31/2010	250	Default	NULL
	SS	Residential Interior	1/1/1900	12/31/2010	250	Default	NULL
	SS	Nonresidential Exterior	1/1/2011	12/31/3000	150	R424	1/1/1900
	SS	Nonresidential Interior	1/1/2011	12/31/3000	150	R424	1/1/1900
	SS	Residential Exterior	1/1/2011	12/31/3000	100	R424	1/1/1900
	SS	Residential Interior	1/1/2011	12/31/3000	100	R424	1/1/1900
	SS	Parking	1/1/1900	12/31/3000	150	R424	1/1/1900
	SS	Parking	1/1/1900	12/31/3000	150	R424	1/1/1900
Stanislaus	STAN	Nonresidential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	STAN	Nonresidential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	STAN	Nonresidential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	STAN	Nonresidential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	STAN	Parking	1/1/2011	12/31/3000	150	R4601	12/17/2009
	STAN	Residential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	STAN	Residential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	STAN	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	STAN	Residential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	STAN	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
Statewide	State	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	State	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	State	Parking	1/1/1900	12/31/3000	250	Default	NULL
	State	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	State	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	State	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Sutter	SUT	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	SUT	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SUT	Parking	1/1/1900	12/31/3000	250	Default	NULL
	SUT	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
SV	SUT	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	SV	Nonresidential Exterior	1/1/1900	6/30/2010	250	Default	NULL
	SV	Nonresidential Interior	1/1/1900	6/30/2010	250	Default	NULL
	SV	Residential Exterior	1/1/1900	6/30/2010	250	Default	NULL

Table 6.1 Architectural Coating Emission Factors

Name	EMFAC_ID	CoatingType	Start Date	End Date	ROG, g/L	Rule Name	Amended Date
Sacramento Valley	SV	Residential Interior	1/1/1900	6/30/2010	250	Default	NULL
	SV	Nonresidential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	SV	Nonresidential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	SV	Residential Exterior	7/1/2011	12/31/3000	100	R218	1/1/1900
	SV	Residential Interior	7/1/2011	12/31/3000	100	R218	1/1/1900
	SV	Parking	1/1/1900	12/31/3000	100	R218	1/1/1900
Tehama County APCD	TEHAPCD	Nonresidential Exterior	1/1/1900	12/31/2002	250	Default	NULL
	TEHAPCD	Nonresidential Exterior	1/1/2003	12/31/2040	150	R4.39	8/20/2002
	TEHAPCD	Nonresidential Interior	1/1/1900	12/31/2002	250	Default	NULL
	TEHAPCD	Nonresidential Interior	1/1/2003	12/31/2040	150	R4.39	8/20/2002
	TEHAPCD	Parking	1/1/2003	12/31/2040	150	R4.39	8/20/2002
	TEHAPCD	Residential Exterior	1/1/1900	12/31/2002	250	Default	NULL
	TEHAPCD	Residential Exterior	1/1/2003	12/31/2040	100	R4.39	8/20/2002
	TEHAPCD	Residential Interior	1/1/2003	12/31/2040	100	R4.39	8/20/2002
	TEHAPCD	Residential Interior	1/1/1900	12/31/2002	250	Default	NULL
	THE	Nonresidential Exterior	1/1/1900	12/31/2002	250	Default	NULL
Tehama	THE	Nonresidential Exterior	1/1/2003	12/31/2040	150	R4.39	8/20/2002
	THE	Nonresidential Interior	1/1/1900	12/31/2002	250	Default	NULL
	THE	Nonresidential Interior	1/1/2003	12/31/2040	150	R4.39	8/20/2002
	THE	Parking	1/1/2003	12/31/2040	150	R4.39	8/20/2002
	THE	Residential Exterior	1/1/1900	12/31/2002	250	Default	NULL
	THE	Residential Exterior	1/1/2003	12/31/2040	100	R4.39	8/20/2002
	THE	Residential Interior	1/1/1900	12/31/2002	250	Default	NULL
	THE	Residential Interior	1/1/2003	12/31/2040	100	R4.39	8/20/2002
	TRI	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	TRI	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
Trinity	TRI	Parking	1/1/1900	12/31/3000	250	Default	NULL
	TRI	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	TRI	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	TUL	Nonresidential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	TUL	Nonresidential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	TUL	Nonresidential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
Tulare	TUL	Nonresidential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	TUL	Parking	1/1/2011	12/31/3000	150	R4601	12/17/2009
	TUL	Residential Exterior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	TUL	Residential Exterior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	TUL	Residential Interior	1/1/1900	12/31/2010	250	R4601	12/17/2009
	TUL	Residential Interior	1/1/2011	12/31/3000	150	R4601	12/17/2009
	TULAPCD	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	TULAPCD	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	TULAPCD	Parking	1/1/1900	12/31/3000	250	Default	NULL
	TULAPCD	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
Tuolumne County APCD	TULAPCD	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
	TUO	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	TUO	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	TUO	Parking	1/1/1900	12/31/3000	250	Default	NULL
	TUO	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	TUO	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL
Ventura County APCD	VCAPCD	Nonresidential Exterior	1/1/1900	12/31/2003	250	Default	NULL
	VCAPCD	Nonresidential Exterior	1/1/2004	1/1/2010	150	R74.2	1/12/2010
	VCAPCD	Nonresidential Exterior	1/12/2010	12/31/2010	250	R74.2	1/12/2010
	VCAPCD	Nonresidential Exterior	1/1/2011	12/31/3000	100	R74.2	1/12/2010
	VCAPCD	Nonresidential Interior	1/1/1900	12/31/2003	250	Default	NULL
	VCAPCD	Nonresidential Interior	1/12/2004	1/1/2010	150	R74.2	1/12/2010
	VCAPCD	Nonresidential Interior	1/12/2010	12/31/2010	250	R74.2	1/12/2010
	VCAPCD	Nonresidential Interior	1/1/2011	12/31/3000	100	R74.2	1/12/2010
	VCAPCD	Parking	1/12/2010	12/31/2010	250	R74.2	1/12/2010
	VCAPCD	Parking	1/1/2011	12/31/3000	100	R74.2	1/12/2010
	VCAPCD	Residential Exterior	1/1/1900	12/31/2003	250	Default	NULL
	VCAPCD	Residential Exterior	1/1/2004	1/1/2010	100	R74.2	1/12/2010
	VCAPCD	Residential Exterior	1/12/2010	12/31/3000	100	R74.2	1/12/2010
	VCAPCD	Residential Interior	1/1/1900	12/31/2003	250	Default	NULL
Ventura	VCAPCD	Residential Interior	1/1/2004	1/1/2010	100	R74.2	1/12/2010
	VENT	Nonresidential Exterior	1/1/1900	12/31/2003	250	Default	NULL
	VENT	Nonresidential Exterior	1/1/2004	1/1/2010	150	R74.2	1/12/2010
	VENT	Nonresidential Exterior	1/12/2010	12/31/2010	250	R74.2	1/12/2010
	VENT	Nonresidential Interior	1/1/1900	12/31/2003	250	Default	NULL
	VENT	Nonresidential Interior	1/1/2004	1/1/2010	150	R74.2	1/12/2010
	VENT	Nonresidential Interior	1/12/2010	12/31/2010	250	R74.2	1/12/2010
	VENT	Nonresidential Interior	1/1/2011	12/31/3000	100	R74.2	1/12/2010
	VENT	Nonresidential Interior	1/1/1900	12/31/2003	250	Default	NULL
	VENT	Nonresidential Interior	1/1/2004	1/1/2010	150	R74.2	1/12/2010
	VENT	Nonresidential Interior	1/12/2010	12/31/2010	250	R74.2	1/12/2010
	VENT	Nonresidential Interior	1/1/2011	12/31/3000	100	R74.2	1/12/2010
	VENT	Parking	1/1/1900	12/31/2010	250	Default	NULL
	VENT	Parking	1/1/2011	12/31/3000	100	R74.2	1/12/2010
	VENT	Residential Exterior	1/1/1900	12/31/2003	250	Default	NULL
	VENT	Residential Exterior	1/1/2004	1/1/2010	100	R74.2	1/12/2010
Yolo	YOLO	Residential Exterior	1/12/2010	12/31/2010	250	R74.2	1/12/2010
	YOLO	Nonresidential Exterior	1/1/1900	12/31/2003	250	Default	NULL
	YOLO	Nonresidential Interior	1/1/1900	12/31/2003	250	Default	NULL
	YOLO	Residential Interior	1/1/1900	12/31/2003	250	Default	NULL
	YOLO	Nonresidential Exterior	1/1/2004	12/31/2017	150	R2-14	11/14/2001
	YOLO	Nonresidential Interior	1/1/2004	12/31/2017	100	R2-14	11/14/2001
	YOLO	Residential Exterior	1/1/2004	12/31/2017	150	R2-14	11/14/2001
	YOLO	Residential Interior	1/1/2004	12/31/2017	100	R2-14	11/14/2001
	YOLO	Nonresidential Exterior	1/1/2018	12/31/3000	100	R2-14	10/12/2016
	YOLO	Nonresidential Interior	1/1/2018	12/31/3000	50	R2-14	10/12/2016
	YOLO	Residential Exterior	1/1/2018	12/31/3000	100	R2-14	10/12/2016
	YOLO	Residential Interior	1/1/2018	12/31/3000	50	R2-14	10/12/2016
	YOLO	Parking	1/1/1900	12/31/2017	150	R2-14	11/14/2001
	YOLO	Parking	1/1/2018	12/31/3000	100	R2-14	10/12/2016
Yolo/Solano AQMD	YSAQMD	Nonresidential Exterior	1/1/1900	12/31/2003	250	Default	NULL
	YSAQMD	Nonresidential Interior	1/1/1900	12/31/2003	250	Default	NULL
	YSAQMD	Residential Exterior	1/1/1900	12/31/2003	250	Default	NULL
	YSAQMD	Residential Interior	1/1/1900	12/31/2003	250	Default	NULL
	YSAQMD	Nonresidential Exterior	1/1/2004	12/31/2017	150	R2-14	11/14/2001
	YSAQMD	Nonresidential Interior	1/1/2004	12/31/2017	100	R2-14	11/14/2001
	YSAQMD	Residential Exterior	1/1/2004	12/31/2017	150	R2-14	11/14/2001
	YSAQMD	Residential Interior	1/1/2004	12/31/2017	100	R2-14	11/14/2001
	YSAQMD	Nonresidential Exterior	1/1/2018	12/31/3000	100	R2-14	10/12/2016
	YSAQMD	Nonresidential Interior	1/1/2018	12/31/3000	50	R2-14	10/12/2016
	YSAQMD	Residential Exterior	1/1/2018	12/31/3000	100	R2-14	10/12/2016
	YSAQMD	Residential Interior	1/1/2018	12/31/3000	50	R2-14	10/12/2016
	YSAQMD	Parking	1/1/1900	12/31/2017	150	R2-14	11/14/2001
	YSAQMD	Parking	1/1/2018	12/31/3000	100	R2-14	10/12/2016
Yuba	YUBA	Nonresidential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	YUBA	Nonresidential Interior	1/1/1900	12/31/3000	250	Default	NULL
	YUBA	Parking	1/1/1900	12/31/3000	250	Default	NULL
	YUBA	Residential Exterior	1/1/1900	12/31/3000	250	Default	NULL
	YUBA	Residential Interior	1/1/1900	12/31/3000	250	Default	NULL

Table 7.1 Number of Snow and Summer Days
 Default: 0 Snow Days and 180 Summer Days

Location Type	Name	Number Snow Days	Number Summer Days
Air Basin	Great Basin Valleys	0	180
	Lake County	0	180
	Lake Tahoe	0	180
	Mountain Counties	0	180
	Mojave Desert	0	180
	North Coast	0	180
	North Central Coast	0	180
	Northeast Plateau	0	180
	South Coast	0	250
	South Central Coast	0	180
	San Diego	0	180
	San Francisco Bay Area	0	180
	San Joaquin Valley	0	180
	Salton Sea	0	180
	Sacramento Valley	0	180
Air District	Amador County APCD	0	180
	Antelope Valley APCD	0	180
	Bay Area AQMD	0	180
	Butte County AQMD	0	180
	Colusa County APCD	0	180
	Calaveras County AQMD	0	180
	El Dorado County AQMD	0	180
	Feather River AQMD	0	180
	Great Basin UAPCD	0	180
	Glenn County APCD	0	180
	Imperial County APCD	0	180
	Kern County APCD	0	180
	Lassen County APCD	0	180
	Lake County AQMD	0	180
	Mariposa County APCD	0	180
	Monterey Bay Unified APCD	0	250
	Mendocino County AQMD	0	180
	Mojave Desert AQMD	0	180
	Modoc County APCD	0	180
	North Coast Unified APCD	0	180
	Northern Sierra AQMD	0	180
	Northern Sonoma County APCD	0	180
	Placer County APCD	0	180
	Santa Barbara County APCD	0	180
	Siskiyou County APCD	0	180
	South Coast AQMD	0	250
	San Diego County APCD	0	180
	Shasta County AQMD	0	180
	San Joaquin Valley Unified APCD	0	180
	San Luis Obispo County APCD	0	330
	Sacramento Metropolitan AQMD	0	250
	Tehama County APCD	0	180
	Tuolumne County APCD	0	180
Ventura County APCD	0	180	
Yolo/Solano AQMD	0	180	
	Alameda	0	180
	Alpine	0	180
	Amador	0	180
	Butte	0	180
	Calaveras	0	180
	Contra Costa	0	180
	Colusa	0	180
	Del Norte	0	180
	El Dorado-Lake Tahoe	0	180
	El Dorado-Mountain County	0	180
	Fresno	0	180
	Glenn	0	180
	Humboldt	0	180
	Imperial	0	180
	Inyo	0	180

Table 7.1 Number of Snow and Summer Days
 Default: 0 Snow Days and 180 Summer Days

Location Type	Name	Number Snow Days	Number Summer Days
Counties	Kern-Mojave Desert	0	180
	Kern-San Joaquin	0	180
	Kings	0	180
	Lake	0	180
	Los Angeles-Mojave Desert	0	180
	Los Angeles-South Coast	0	250
	Lassen	0	180
	Madera	0	180
	Marin	0	180
	Mariposa	0	180
	Mendocino-Coastal	0	180
	Mendocino-Inland	0	180
	Mendocino-Rural Inland North	0	180
	Mendocino-Rural Inland South	0	180
	Merced	0	180
	Modoc	0	180
	Mono	0	180
	Monterey	0	250
	Napa	0	180
	Nevada	0	180
	Orange	0	250
	Placer-Lake Tahoe	0	180
	Placer-Mountain Counties	0	180
	Placer-Sacramento	0	180
	Plumas	0	180
	Riverside-Mojave Desert MDAQMD	0	180
	Riverside-South Coast	0	250
	Riverside-Mojave Desert South Coast AQMD	0	250
	Riverside-Salton Sea	0	180
	Sacramento	0	250
	San Benito	0	250
	San Bernardino-Mojave Desert	0	180
	San Bernardino-South Coast	0	250
	Santa Barbara-North of Santa Ynez	0	180
	Santa Barbara-South of Santa Ynez Range	0	180
	Santa Clara	0	180
	Santa Cruz	0	250
	San Diego	0	180
	San Francisco	0	180
	Shasta	0	180
	Sierra	0	180
	Siskiyou	0	180
	San Joaquin	0	180
	San Luis Obispo	0	330
	San Mateo	0	180
	Solano-San Francisco	0	180
	Solano-Sacramento	0	180
	Sonoma-North Coast	0	180
	Sonoma-San Francisco	0	180
	Stanislaus	0	180
	Sutter	0	180
	Tehama	0	180
Trinity	0	180	
Tulare	0	180	
Tuolumne	0	180	
Ventura	0	180	
Yolo	0	180	
Yuba	0	180	
Statewide	Statewide	0	180

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Chainsaws	1990	G2	C	0	2	430.1	1525.141	2.131	0.534	7.415	7.415	884.646	36.68
Chainsaws	1990	G2	C	6	15	1449.037	5141.698	9.226	2.555	35.657	35.657	4229.983	123.578
Chainsaws	1990	G2	R	0	2	430.1	1525.141	2.131	0.534	7.415	7.415	884.646	36.68
Chainsaws	1990	G2	R	6	15	1449.037	5141.698	9.226	2.555	35.657	35.657	4229.983	123.578
Chainsaws	2000	G2	C	0	2	270.428	649.378	3.049	0.051	4.093	4.093	884.645	16.368
Chainsaws	2000	G2	C	6	15	1266.497	2726.472	9.823	0.252	7.183	7.183	4229.982	76.657
Chainsaws	2000	G2	R	0	2	270.428	649.378	3.049	0.051	4.093	4.093	884.645	16.368
Chainsaws	2000	G2	R	6	15	1266.497	2726.472	9.823	0.252	7.183	7.183	4229.982	76.657
Chainsaws	2005	G2	C	0	2	207.911	510.872	2.825	0.036	2.641	2.641	884.646	12.922
Chainsaws	2005	G2	C	6	15	848.205	2184.762	13.204	0.174	5.288	5.288	4229.983	52.72
Chainsaws	2005	G2	R	0	2	207.911	510.872	2.825	0.036	2.641	2.641	884.646	12.922
Chainsaws	2005	G2	R	6	15	848.205	2184.762	13.204	0.174	5.288	5.288	4229.983	52.72
Chainsaws	2010	G2	C	0	2	162.731	408.317	2.858	0.036	1.705	1.705	884.645	10.114
Chainsaws	2010	G2	C	6	15	766.506	1633.987	13.859	0.174	4.103	4.103	4229.983	47.642
Chainsaws	2010	G2	R	0	2	162.731	408.317	2.858	0.036	1.705	1.705	884.645	10.114
Chainsaws	2010	G2	R	6	15	766.506	1633.987	13.859	0.174	4.103	4.103	4229.983	47.642
Chainsaws	2011	G2	C	0	2	155.394	394.431	2.878	0.036	1.522	1.522	884.646	9.658
Chainsaws	2011	G2	C	6	15	759.657	1622.962	13.892	0.174	3.856	3.856	4229.983	47.216
Chainsaws	2011	G2	R	0	2	155.394	394.431	2.878	0.036	1.522	1.522	884.646	9.658
Chainsaws	2011	G2	R	6	15	759.657	1622.962	13.892	0.174	3.856	3.856	4229.983	47.216
Chainsaws	2012	G2	C	0	2	149.004	383.549	2.895	0.036	1.353	1.353	884.646	9.261
Chainsaws	2012	G2	C	6	15	753.368	1613.589	13.92	0.174	3.622	3.622	4229.982	46.825
Chainsaws	2012	G2	R	0	2	149.004	383.549	2.895	0.036	1.353	1.353	884.646	9.261
Chainsaws	2012	G2	R	6	15	753.368	1613.589	13.92	0.174	3.622	3.622	4229.982	46.825
Chainsaws	2013	G2	C	0	2	142.978	373.417	2.911	0.036	1.193	1.193	884.646	8.886
Chainsaws	2013	G2	C	6	15	747.326	1604.617	13.946	0.174	3.399	3.399	4229.981	46.449
Chainsaws	2013	G2	R	0	2	142.978	373.417	2.911	0.036	1.193	1.193	884.646	8.886
Chainsaws	2013	G2	R	6	15	747.326	1604.617	13.946	0.174	3.399	3.399	4229.981	46.449
Chainsaws	2014	G2	C	0	2	137.47	364.196	2.923	0.036	1.045	1.045	884.646	8.544
Chainsaws	2014	G2	C	6	15	741.798	1596.381	13.968	0.174	3.192	3.192	4229.983	46.106
Chainsaws	2014	G2	R	0	2	137.47	364.196	2.923	0.036	1.045	1.045	884.646	8.544
Chainsaws	2014	G2	R	6	15	741.798	1596.381	13.968	0.174	3.192	3.192	4229.983	46.106
Chainsaws	2015	G2	C	0	2	132.537	355.824	2.932	0.036	0.913	0.913	884.646	8.237
Chainsaws	2015	G2	C	6	15	736.856	1588.938	13.984	0.174	3.007	3.007	4229.983	45.799
Chainsaws	2015	G2	R	0	2	132.537	355.824	2.932	0.036	0.913	0.913	884.646	8.237
Chainsaws	2015	G2	R	6	15	736.856	1588.938	13.984	0.174	3.007	3.007	4229.983	45.799
Chainsaws	2016	G2	C	0	2	129.473	350.338	2.924	0.036	0.836	0.836	884.646	8.047
Chainsaws	2016	G2	C	6	15	733.89	1584.315	13.978	0.174	2.902	2.902	4229.984	45.614
Chainsaws	2016	G2	R	0	2	129.473	350.338	2.924	0.036	0.836	0.836	884.646	8.047
Chainsaws	2016	G2	R	6	15	733.89	1584.315	13.978	0.174	2.902	2.902	4229.984	45.614
Chainsaws	2017	G2	C	0	2	127.281	346.187	2.909	0.036	0.785	0.785	884.646	7.911
Chainsaws	2017	G2	C	6	15	731.828	1580.963	13.963	0.174	2.834	2.834	4229.982	45.486
Chainsaws	2017	G2	R	0	2	127.281	346.187	2.909	0.036	0.785	0.785	884.646	7.911
Chainsaws	2017	G2	R	6	15	731.828	1580.963	13.963	0.174	2.834	2.834	4229.982	45.486
Chainsaws	2018	G2	C	0	2	125.383	342.558	2.894	0.036	0.741	0.741	884.646	7.793
Chainsaws	2018	G2	C	6	15	730.055	1578.05	13.946	0.174	2.775	2.775	4229.982	45.376
Chainsaws	2018	G2	R	0	2	125.383	342.558	2.894	0.036	0.741	0.741	884.646	7.793
Chainsaws	2018	G2	R	6	15	730.055	1578.05	13.946	0.174	2.775	2.775	4229.982	45.376
Chainsaws	2019	G2	C	0	2	123.704	339.377	2.879	0.036	0.702	0.702	884.646	7.688
Chainsaws	2019	G2	C	6	15	728.478	1575.487	13.93	0.174	2.723	2.723	4229.983	45.278
Chainsaws	2019	G2	R	0	2	123.704	339.377	2.879	0.036	0.702	0.702	884.646	7.688
Chainsaws	2019	G2	R	6	15	728.478	1575.487	13.93	0.174	2.723	2.723	4229.983	45.278
Chainsaws	2020	G2	C	0	2	122.245	336.69	2.866	0.036	0.667	0.667	884.645	7.598
Chainsaws	2020	G2	C	6	15	727.09	1573.283	13.915	0.174	2.675	2.675	4229.983	45.192
Chainsaws	2020	G2	R	0	2	122.245	336.69	2.866	0.036	0.667	0.667	884.645	7.598
Chainsaws	2020	G2	R	6	15	727.09	1573.283	13.915	0.174	2.675	2.675	4229.983	45.192
Chainsaws	2021	G2	C	0	2	121.003	334.39	2.861	0.036	0.636	0.636	884.646	7.52
Chainsaws	2021	G2	C	6	15	725.905	1571.385	13.911	0.174	2.633	2.633	4229.982	45.118
Chainsaws	2021	G2	R	0	2	121.003	334.39	2.861	0.036	0.636	0.636	884.646	7.52
Chainsaws	2021	G2	R	6	15	725.905	1571.385	13.911	0.174	2.633	2.633	4229.982	45.118
Chainsaws	2022	G2	C	0	2	120.084	332.625	2.86	0.036	0.61	0.61	884.646	7.463
Chainsaws	2022	G2	C	6	15	725.029	1569.887	13.911	0.174	2.597	2.597	4229.982	45.064
Chainsaws	2022	G2	R	0	2	120.084	332.625	2.86	0.036	0.61	0.61	884.646	7.463
Chainsaws	2022	G2	R	6	15	725.029	1569.887	13.911	0.174	2.597	2.597	4229.982	45.064
Chainsaws	2023	G2	C	0	2	119.275	331.06	2.859	0.036	0.587	0.587	884.645	7.413
Chainsaws	2023	G2	C	6	15	724.255	1568.544	13.911	0.174	2.566	2.566	4229.982	45.015
Chainsaws	2023	G2	R	0	2	119.275	331.06	2.859	0.036	0.587	0.587	884.645	7.413
Chainsaws	2023	G2	R	6	15	724.255	1568.544	13.911	0.174	2.566	2.566	4229.982	45.015
Chainsaws	2024	G2	C	0	2	118.594	329.785	2.858	0.036	0.567	0.567	884.646	7.371
Chainsaws	2024	G2	C	6	15	723.595	1567.432	13.91	0.174	2.538	2.538	4229.983	44.974
Chainsaws	2024	G2	R	0	2	118.594	329.785	2.858	0.036	0.567	0.567	884.646	7.371
Chainsaws	2024	G2	R	6	15	723.595	1567.432	13.91	0.174	2.538	2.538	4229.983	44.974
Chainsaws	2025	G2	C	0	2	118.058	328.877	2.857	0.036	0.551	0.551	884.646	7.337
Chainsaws	2025	G2	C	6	15	723.056	1566.61	13.909	0.174	2.515	2.515	4229.983	44.941
Chainsaws	2025	G2	R	0	2	118.058	328.877	2.857	0.036	0.551	0.551	884.646	7.337
Chainsaws	2025	G2	R	6	15	723.056	1566.61	13.909	0.174	2.515	2.515	4229.983	44.941

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Chainsaws	2030	G2	C	0	2	116.821	327.327	2.847	0.036	0.515	0.515	884.646	7.261
Chainsaws	2030	G2	C	6	15	721.699	1565.005	13.9	0.174	2.463	2.463	4229.983	44.857
Chainsaws	2030	G2	R	0	2	116.821	327.327	2.847	0.036	0.515	0.515	884.646	7.261
Chainsaws	2030	G2	R	6	15	721.699	1565.005	13.9	0.174	2.463	2.463	4229.983	44.857
Chainsaws	2035	G2	C	0	2	116.745	327.292	2.841	0.036	0.514	0.514	884.646	7.256
Chainsaws	2035	G2	C	6	15	721.61	1564.967	13.892	0.174	2.462	2.462	4229.983	44.851
Chainsaws	2035	G2	R	0	2	116.745	327.292	2.841	0.036	0.514	0.514	884.646	7.256
Chainsaws	2035	G2	R	6	15	721.61	1564.967	13.892	0.174	2.462	2.462	4229.983	44.851
Chainsaws	2040	G2	C	0	2	116.734	327.292	2.841	0.036	0.514	0.514	884.646	7.255
Chainsaws	2040	G2	C	6	15	721.596	1564.968	13.892	0.174	2.462	2.462	4229.983	44.85
Chainsaws	2040	G2	R	0	2	116.734	327.292	2.841	0.036	0.514	0.514	884.646	7.255
Chainsaws	2040	G2	R	6	15	721.596	1564.968	13.892	0.174	2.462	2.462	4229.983	44.85
Chainsaws Preempt	1990	G2	C	6	15	366.304	1299.779	2.281	0.645	9.013	9.013	1069.305	31.239
Chainsaws Preempt	1990	G2	R	6	15	366.304	1299.779	2.281	0.645	9.013	9.013	1069.305	31.239
Chainsaws Preempt	2000	G2	C	6	15	338.395	831.071	2.059	0.061	3.653	3.653	1069.305	20.482
Chainsaws Preempt	2000	G2	R	6	15	338.395	831.071	2.059	0.061	3.653	3.653	1069.305	20.482
Chainsaws Preempt	2005	G2	C	6	15	254.318	635.617	2.838	0.044	2.464	2.464	1069.305	15.807
Chainsaws Preempt	2005	G2	R	6	15	254.318	635.617	2.838	0.044	2.464	2.464	1069.305	15.807
Chainsaws Preempt	2010	G2	C	6	15	209.644	529.056	3.069	0.044	1.449	1.449	1069.305	13.03
Chainsaws Preempt	2010	G2	R	6	15	209.644	529.056	3.069	0.044	1.449	1.449	1069.305	13.03
Chainsaws Preempt	2011	G2	C	6	15	201.143	511.177	3.112	0.044	1.257	1.257	1069.305	12.502
Chainsaws Preempt	2011	G2	R	6	15	201.143	511.177	3.112	0.044	1.257	1.257	1069.305	12.502
Chainsaws Preempt	2012	G2	C	6	15	193.093	493.759	3.149	0.044	1.096	1.096	1069.305	12.001
Chainsaws Preempt	2012	G2	R	6	15	193.093	493.759	3.149	0.044	1.096	1.096	1069.305	12.001
Chainsaws Preempt	2013	G2	C	6	15	185.768	480.558	3.186	0.044	1.004	1.004	1069.305	11.546
Chainsaws Preempt	2013	G2	R	6	15	185.768	480.558	3.186	0.044	1.004	1.004	1069.305	11.546
Chainsaws Preempt	2014	G2	C	6	15	178.982	469.597	3.222	0.044	0.944	0.944	1069.305	11.124
Chainsaws Preempt	2014	G2	R	6	15	178.982	469.597	3.222	0.044	0.944	0.944	1069.305	11.124
Chainsaws Preempt	2015	G2	C	6	15	172.536	459.286	3.257	0.044	0.892	0.892	1069.305	10.723
Chainsaws Preempt	2015	G2	R	6	15	172.536	459.286	3.257	0.044	0.892	0.892	1069.305	10.723
Chainsaws Preempt	2016	G2	C	6	15	166.528	449.661	3.289	0.044	0.846	0.846	1069.305	10.35
Chainsaws Preempt	2016	G2	R	6	15	166.528	449.661	3.289	0.044	0.846	0.846	1069.305	10.35
Chainsaws Preempt	2017	G2	C	6	15	161.095	440.508	3.319	0.044	0.805	0.805	1069.305	10.012
Chainsaws Preempt	2017	G2	R	6	15	161.095	440.508	3.319	0.044	0.805	0.805	1069.305	10.012
Chainsaws Preempt	2018	G2	C	6	15	156.8	432.052	3.343	0.044	0.77	0.77	1069.305	9.745
Chainsaws Preempt	2018	G2	R	6	15	156.8	432.052	3.343	0.044	0.77	0.77	1069.305	9.745
Chainsaws Preempt	2019	G2	C	6	15	153.482	424.251	3.361	0.044	0.739	0.739	1069.305	9.539
Chainsaws Preempt	2019	G2	R	6	15	153.482	424.251	3.361	0.044	0.739	0.739	1069.305	9.539
Chainsaws Preempt	2020	G2	C	6	15	150.987	417.321	3.376	0.044	0.711	0.711	1069.305	9.384
Chainsaws Preempt	2020	G2	R	6	15	150.987	417.321	3.376	0.044	0.711	0.711	1069.305	9.384
Chainsaws Preempt	2021	G2	C	6	15	149.069	412.763	3.386	0.044	0.687	0.687	1069.305	9.265
Chainsaws Preempt	2021	G2	R	6	15	149.069	412.763	3.386	0.044	0.687	0.687	1069.305	9.265
Chainsaws Preempt	2022	G2	C	6	15	147.64	409.646	3.395	0.044	0.669	0.669	1069.305	9.176
Chainsaws Preempt	2022	G2	R	6	15	147.64	409.646	3.395	0.044	0.669	0.669	1069.305	9.176
Chainsaws Preempt	2023	G2	C	6	15	146.402	406.95	3.402	0.044	0.654	0.654	1069.305	9.099
Chainsaws Preempt	2023	G2	R	6	15	146.402	406.95	3.402	0.044	0.654	0.654	1069.305	9.099
Chainsaws Preempt	2024	G2	C	6	15	145.326	404.662	3.408	0.044	0.642	0.642	1069.305	9.032
Chainsaws Preempt	2024	G2	R	6	15	145.326	404.662	3.408	0.044	0.642	0.642	1069.305	9.032
Chainsaws Preempt	2025	G2	C	6	15	144.382	402.632	3.414	0.044	0.633	0.633	1069.305	8.974
Chainsaws Preempt	2025	G2	R	6	15	144.382	402.632	3.414	0.044	0.633	0.633	1069.305	8.974
Chainsaws Preempt	2030	G2	C	6	15	141.634	397.139	3.43	0.044	0.622	0.622	1069.305	8.803
Chainsaws Preempt	2030	G2	R	6	15	141.634	397.139	3.43	0.044	0.622	0.622	1069.305	8.803
Chainsaws Preempt	2035	G2	C	6	15	141.117	395.646	3.434	0.044	0.622	0.622	1069.305	8.771
Chainsaws Preempt	2035	G2	R	6	15	141.117	395.646	3.434	0.044	0.622	0.622	1069.305	8.771
Chainsaws Preempt	2040	G2	C	6	15	141.101	395.611	3.434	0.044	0.622	0.622	1069.305	8.77
Chainsaws Preempt	2040	G2	R	6	15	141.101	395.611	3.434	0.044	0.622	0.622	1069.305	8.77
Chippers/Stump Grinders	1990	G4	C	6	15	26.78	933.58	8.955	0.359	0.28	0.28	858.879	3.132
Chippers/Stump Grinders	1990	G4	C	16	25	24.322	928.906	8.774	0.319	0.279	0.279	858.879	2.845
Chippers/Stump Grinders	1990	G4	R	6	15	26.78	933.58	8.955	0.359	0.28	0.28	858.879	3.132
Chippers/Stump Grinders	1990	G4	R	16	25	24.322	928.906	8.774	0.319	0.279	0.279	858.879	2.845
Chippers/Stump Grinders	2000	G4	C	6	15	26.135	723.135	6.901	0.034	4.7	4.7	858.879	1.413
Chippers/Stump Grinders	2000	G4	C	16	25	23.07	704.371	6.107	0.03	4.7	4.7	858.879	1.248
Chippers/Stump Grinders	2000	G4	R	6	15	26.135	723.135	6.901	0.034	4.7	4.7	858.879	1.413
Chippers/Stump Grinders	2000	G4	R	16	25	23.07	704.371	6.107	0.03	4.7	4.7	858.879	1.248
Chippers/Stump Grinders	2005	G4	C	6	15	15.976	594.637	8.627	0.024	5.68	5.68	858.879	0.89
Chippers/Stump Grinders	2005	G4	C	16	25	15.751	614.099	7.946	0.021	5.68	5.68	858.879	0.877
Chippers/Stump Grinders	2005	G4	R	6	15	15.976	594.637	8.627	0.024	5.68	5.68	858.879	0.89
Chippers/Stump Grinders	2005	G4	R	16	25	15.751	614.099	7.946	0.021	5.68	5.68	858.879	0.877
Chippers/Stump Grinders	2010	G4	C	6	15	14.871	564.601	8.667	0.024	6.518	6.518	858.879	0.829
Chippers/Stump Grinders	2010	G4	C	16	25	14.869	587.924	7.952	0.021	6.518	6.518	858.879	0.828
Chippers/Stump Grinders	2010	G4	R	6	15	14.871	564.601	8.667	0.024	6.518	6.518	858.879	0.829
Chippers/Stump Grinders	2010	G4	R	16	25	14.869	587.924	7.952	0.021	6.518	6.518	858.879	0.828
Chippers/Stump Grinders	2011	G4	C	6	15	14.631	558.807	8.673	0.024	6.676	6.676	858.879	0.815
Chippers/Stump Grinders	2011	G4	C	16	25	14.678	582.832	7.951	0.021	6.676	6.676	858.879	0.817
Chippers/Stump Grinders	2011	G4	R	6	15	14.631	558.807	8.673	0.024	6.676	6.676	858.879	0.815
Chippers/Stump Grinders	2011	G4	R	16	25	14.678	582.832	7.951	0.021	6.676	6.676	858.879	0.817

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX ₂ g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Chippers/Stump Grinders	2012	G4	C	6	15	14.382	552.474	8.678	0.024	6.808	6.808	858.879	0.801
Chippers/Stump Grinders	2012	G4	C	16	25	14.48	577.17	7.952	0.021	6.808	6.808	858.879	0.806
Chippers/Stump Grinders	2012	G4	R	6	15	14.382	552.474	8.678	0.024	6.808	6.808	858.879	0.801
Chippers/Stump Grinders	2012	G4	R	16	25	14.48	577.17	7.952	0.021	6.808	6.808	858.879	0.806
Chippers/Stump Grinders	2013	G4	C	6	15	14.151	547.979	8.7	0.024	6.884	6.884	858.879	0.788
Chippers/Stump Grinders	2013	G4	C	16	25	14.308	573.422	7.978	0.021	6.884	6.884	858.879	0.797
Chippers/Stump Grinders	2013	G4	R	6	15	14.151	547.979	8.7	0.024	6.884	6.884	858.879	0.788
Chippers/Stump Grinders	2013	G4	R	16	25	14.308	573.422	7.978	0.021	6.884	6.884	858.879	0.797
Chippers/Stump Grinders	2014	G4	C	6	15	13.931	543.899	8.73	0.024	6.934	6.934	858.879	0.776
Chippers/Stump Grinders	2014	G4	C	16	25	14.149	570.105	8.014	0.021	6.934	6.934	858.879	0.788
Chippers/Stump Grinders	2014	G4	R	6	15	13.931	543.899	8.73	0.024	6.934	6.934	858.879	0.776
Chippers/Stump Grinders	2014	G4	R	16	25	14.149	570.105	8.014	0.021	6.934	6.934	858.879	0.788
Chippers/Stump Grinders	2015	G4	C	6	15	13.705	539.742	8.763	0.024	6.977	6.977	858.879	0.763
Chippers/Stump Grinders	2015	G4	C	16	25	13.986	566.728	8.054	0.021	6.977	6.977	858.879	0.779
Chippers/Stump Grinders	2015	G4	R	6	15	13.705	539.742	8.763	0.024	6.977	6.977	858.879	0.763
Chippers/Stump Grinders	2015	G4	R	16	25	13.986	566.728	8.054	0.021	6.977	6.977	858.879	0.779
Chippers/Stump Grinders	2016	G4	C	6	15	13.477	535.731	8.798	0.024	7.015	7.015	858.879	0.751
Chippers/Stump Grinders	2016	G4	C	16	25	13.824	563.501	8.096	0.021	7.015	7.015	858.879	0.77
Chippers/Stump Grinders	2016	G4	R	6	15	13.477	535.731	8.798	0.024	7.015	7.015	858.879	0.751
Chippers/Stump Grinders	2016	G4	R	16	25	13.824	563.501	8.096	0.021	7.015	7.015	858.879	0.77
Chippers/Stump Grinders	2017	G4	C	6	15	13.257	531.934	8.832	0.024	7.049	7.049	858.88	0.738
Chippers/Stump Grinders	2017	G4	C	16	25	13.666	560.455	8.137	0.021	7.049	7.049	858.879	0.761
Chippers/Stump Grinders	2017	G4	R	6	15	13.257	531.934	8.832	0.024	7.049	7.049	858.88	0.738
Chippers/Stump Grinders	2017	G4	R	16	25	13.666	560.455	8.137	0.021	7.049	7.049	858.879	0.761
Chippers/Stump Grinders	2018	G4	C	6	15	13.054	528.594	8.866	0.024	7.078	7.078	858.879	0.727
Chippers/Stump Grinders	2018	G4	C	16	25	13.521	557.812	8.176	0.021	7.078	7.078	858.879	0.753
Chippers/Stump Grinders	2018	G4	R	6	15	13.054	528.594	8.866	0.024	7.078	7.078	858.879	0.727
Chippers/Stump Grinders	2018	G4	R	16	25	13.521	557.812	8.176	0.021	7.078	7.078	858.879	0.753
Chippers/Stump Grinders	2019	G4	C	6	15	12.927	526.488	8.885	0.024	7.103	7.103	858.879	0.72
Chippers/Stump Grinders	2019	G4	C	16	25	13.43	556.111	8.197	0.021	7.103	7.103	858.879	0.748
Chippers/Stump Grinders	2019	G4	R	6	15	12.927	526.488	8.885	0.024	7.103	7.103	858.879	0.72
Chippers/Stump Grinders	2019	G4	R	16	25	13.43	556.111	8.197	0.021	7.103	7.103	858.879	0.748
Chippers/Stump Grinders	2020	G4	C	6	15	12.837	524.97	8.898	0.024	7.126	7.126	858.879	0.715
Chippers/Stump Grinders	2020	G4	C	16	25	13.364	554.86	8.21	0.021	7.126	7.126	858.879	0.744
Chippers/Stump Grinders	2020	G4	R	6	15	12.837	524.97	8.898	0.024	7.126	7.126	858.879	0.715
Chippers/Stump Grinders	2020	G4	R	16	25	13.364	554.86	8.21	0.021	7.126	7.126	858.879	0.744
Chippers/Stump Grinders	2021	G4	C	6	15	12.749	523.609	8.907	0.024	7.146	7.146	858.879	0.71
Chippers/Stump Grinders	2021	G4	C	16	25	13.299	553.749	8.22	0.021	7.146	7.146	858.879	0.741
Chippers/Stump Grinders	2021	G4	R	6	15	12.749	523.609	8.907	0.024	7.146	7.146	858.879	0.71
Chippers/Stump Grinders	2021	G4	R	16	25	13.299	553.749	8.22	0.021	7.146	7.146	858.879	0.741
Chippers/Stump Grinders	2022	G4	C	6	15	12.676	522.437	8.918	0.024	7.161	7.161	858.879	0.706
Chippers/Stump Grinders	2022	G4	C	16	25	13.245	552.799	8.232	0.021	7.161	7.161	858.88	0.738
Chippers/Stump Grinders	2022	G4	R	6	15	12.676	522.437	8.918	0.024	7.161	7.161	858.879	0.706
Chippers/Stump Grinders	2022	G4	R	16	25	13.245	552.799	8.232	0.021	7.161	7.161	858.88	0.738
Chippers/Stump Grinders	2023	G4	C	6	15	12.604	521.328	8.93	0.024	7.173	7.173	858.879	0.702
Chippers/Stump Grinders	2023	G4	C	16	25	13.193	551.905	8.244	0.021	7.173	7.173	858.879	0.735
Chippers/Stump Grinders	2023	G4	R	6	15	12.604	521.328	8.93	0.024	7.173	7.173	858.879	0.702
Chippers/Stump Grinders	2023	G4	R	16	25	13.193	551.905	8.244	0.021	7.173	7.173	858.879	0.735
Chippers/Stump Grinders	2024	G4	C	6	15	12.541	520.397	8.94	0.024	7.183	7.183	858.879	0.699
Chippers/Stump Grinders	2024	G4	C	16	25	13.147	551.168	8.255	0.021	7.183	7.183	858.879	0.733
Chippers/Stump Grinders	2024	G4	R	6	15	12.541	520.397	8.94	0.024	7.183	7.183	858.879	0.699
Chippers/Stump Grinders	2024	G4	R	16	25	13.147	551.168	8.255	0.021	7.183	7.183	858.879	0.733
Chippers/Stump Grinders	2025	G4	C	6	15	12.482	519.536	8.949	0.024	7.191	7.191	858.879	0.696
Chippers/Stump Grinders	2025	G4	C	16	25	13.104	550.485	8.265	0.021	7.191	7.191	858.879	0.73
Chippers/Stump Grinders	2025	G4	R	6	15	12.482	519.536	8.949	0.024	7.191	7.191	858.879	0.696
Chippers/Stump Grinders	2025	G4	R	16	25	13.104	550.485	8.265	0.021	7.191	7.191	858.879	0.73
Chippers/Stump Grinders	2030	G4	C	6	15	12.282	516.861	8.977	0.024	7.199	7.199	858.879	0.685
Chippers/Stump Grinders	2030	G4	C	16	25	12.957	548.436	8.297	0.021	7.199	7.199	858.879	0.722
Chippers/Stump Grinders	2030	G4	R	6	15	12.282	516.861	8.977	0.024	7.199	7.199	858.879	0.685
Chippers/Stump Grinders	2030	G4	R	16	25	12.957	548.436	8.297	0.021	7.199	7.199	858.879	0.722
Chippers/Stump Grinders	2035	G4	C	6	15	12.235	516.011	8.982	0.024	7.199	7.199	858.879	0.683
Chippers/Stump Grinders	2035	G4	C	16	25	12.921	547.707	8.303	0.021	7.199	7.199	858.879	0.721
Chippers/Stump Grinders	2035	G4	R	6	15	12.235	516.011	8.982	0.024	7.199	7.199	858.879	0.683
Chippers/Stump Grinders	2035	G4	R	16	25	12.921	547.707	8.303	0.021	7.199	7.199	858.879	0.721
Chippers/Stump Grinders	2040	G4	C	6	15	12.225	515.57	8.979	0.024	7.199	7.199	858.879	0.682
Chippers/Stump Grinders	2040	G4	C	16	25	12.912	547.24	8.3	0.021	7.199	7.199	858.879	0.721
Chippers/Stump Grinders	2040	G4	R	6	15	12.225	515.57	8.979	0.024	7.199	7.199	858.879	0.682
Chippers/Stump Grinders	2040	G4	R	16	25	12.912	547.24	8.3	0.021	7.199	7.199	858.879	0.721
Commercial Turf Equipment	1990	G2	C	6	15	191.758	485.999	0.312	0.259	7.699	7.699	429.44	16.353
Commercial Turf Equipment	1990	G2	C	16	25	191.758	485.999	0.312	0.259	7.699	7.699	429.439	16.353
Commercial Turf Equipment	1990	G4	C	6	15	16.379	472.617	4.731	0.179	0.239	0.239	429.439	1.921
Commercial Turf Equipment	1990	G4	C	16	25	14.527	469.101	4.594	0.159	0.24	0.24	429.439	1.704
Commercial Turf Equipment	2000	G2	C	6	15	14.782	299.417	2.985	0.024	0.377	0.377	429.439	0.894
Commercial Turf Equipment	2000	G2	C	16	25	13.439	293.136	2.439	0.024	0.377	0.377	429.44	0.813
Commercial Turf Equipment	2000	G4	C	6	15	16.668	363.292	3.251	0.017	0.239	0.239	429.439	0.904
Commercial Turf Equipment	2000	G4	C	16	25	14.233	343.703	2.671	0.015	0.239	0.239	429.439	0.772

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Commercial Turf Equipment	2005	G2	C	6	15	6.003	233.321	4.02	0.017	0.199	0.199	429.439	0.373
Commercial Turf Equipment	2005	G2	C	16	25	6.112	244.809	3.679	0.017	0.199	0.199	429.439	0.379
Commercial Turf Equipment	2005	G4	C	6	15	8.16	270.992	4.937	0.012	0.239	0.239	429.439	0.455
Commercial Turf Equipment	2005	G4	C	16	25	8.228	282.77	4.525	0.01	0.239	0.239	429.439	0.458
Commercial Turf Equipment	2010	G2	C	6	15	4.216	224.659	3.203	0.017	0.2	0.2	429.439	0.262
Commercial Turf Equipment	2010	G2	C	16	25	4.288	238.459	3.13	0.017	0.199	0.199	429.439	0.266
Commercial Turf Equipment	2010	G4	C	6	15	5.626	258.52	4.031	0.012	0.239	0.239	429.439	0.313
Commercial Turf Equipment	2010	G4	C	16	25	5.642	274.4	4.03	0.01	0.239	0.239	429.439	0.314
Commercial Turf Equipment	2011	G2	C	6	15	3.91	224.659	2.951	0.017	0.199	0.199	429.439	0.243
Commercial Turf Equipment	2011	G2	C	16	25	3.921	238.46	2.943	0.017	0.2	0.2	429.44	0.243
Commercial Turf Equipment	2011	G4	C	6	15	5.25	258.5	3.73	0.012	0.24	0.24	429.439	0.293
Commercial Turf Equipment	2011	G4	C	16	25	5.166	274.379	3.833	0.01	0.239	0.239	429.439	0.288
Commercial Turf Equipment	2012	G2	C	6	15	3.813	224.659	2.872	0.017	0.199	0.199	429.439	0.237
Commercial Turf Equipment	2012	G2	C	16	25	3.806	238.459	2.884	0.017	0.199	0.199	429.439	0.236
Commercial Turf Equipment	2012	G4	C	6	15	5.132	258.463	3.636	0.012	0.239	0.239	429.439	0.286
Commercial Turf Equipment	2012	G4	C	16	25	5.016	274.34	3.771	0.01	0.24	0.24	429.439	0.279
Commercial Turf Equipment	2013	G2	C	6	15	3.755	224.659	2.824	0.017	0.199	0.199	429.439	0.233
Commercial Turf Equipment	2013	G2	C	16	25	3.736	238.459	2.848	0.017	0.199	0.199	429.439	0.232
Commercial Turf Equipment	2013	G4	C	6	15	5.06	258.427	3.579	0.012	0.239	0.239	429.439	0.282
Commercial Turf Equipment	2013	G4	C	16	25	4.926	274.302	3.733	0.01	0.239	0.239	429.439	0.274
Commercial Turf Equipment	2014	G2	C	6	15	3.726	224.659	2.8	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2014	G2	C	16	25	3.701	238.46	2.83	0.017	0.199	0.199	429.439	0.23
Commercial Turf Equipment	2014	G4	C	6	15	5.024	258.392	3.55	0.012	0.239	0.239	429.439	0.28
Commercial Turf Equipment	2014	G4	C	16	25	4.88	274.264	3.714	0.01	0.24	0.24	429.439	0.272
Commercial Turf Equipment	2015	G2	C	6	15	3.718	224.659	2.794	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2015	G2	C	16	25	3.692	238.459	2.825	0.017	0.199	0.199	429.439	0.229
Commercial Turf Equipment	2015	G4	C	6	15	5.014	258.358	3.542	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2015	G4	C	16	25	4.867	274.228	3.709	0.01	0.239	0.239	429.439	0.271
Commercial Turf Equipment	2016	G2	C	6	15	3.718	224.659	2.794	0.017	0.2	0.2	429.439	0.231
Commercial Turf Equipment	2016	G2	C	16	25	3.692	238.459	2.825	0.017	0.199	0.199	429.439	0.229
Commercial Turf Equipment	2016	G4	C	6	15	5.013	258.32	3.542	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2016	G4	C	16	25	4.867	274.187	3.709	0.01	0.239	0.239	429.439	0.271
Commercial Turf Equipment	2017	G2	C	6	15	3.718	224.659	2.794	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2017	G2	C	16	25	3.692	238.459	2.825	0.017	0.199	0.199	429.439	0.229
Commercial Turf Equipment	2017	G4	C	6	15	5.013	258.283	3.541	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2017	G4	C	16	25	4.866	274.148	3.709	0.01	0.239	0.239	429.439	0.271
Commercial Turf Equipment	2018	G2	C	6	15	3.718	224.659	2.794	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2018	G2	C	16	25	3.692	238.459	2.825	0.017	0.199	0.199	429.439	0.229
Commercial Turf Equipment	2018	G4	C	6	15	5.012	258.247	3.541	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2018	G4	C	16	25	4.866	274.11	3.708	0.01	0.24	0.24	429.439	0.271
Commercial Turf Equipment	2019	G2	C	6	15	3.718	224.659	2.794	0.017	0.2	0.2	429.439	0.231
Commercial Turf Equipment	2019	G2	C	16	25	3.692	238.46	2.825	0.017	0.2	0.2	429.44	0.229
Commercial Turf Equipment	2019	G4	C	6	15	5.012	258.211	3.541	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2019	G4	C	16	25	4.865	274.072	3.708	0.01	0.24	0.24	429.44	0.271
Commercial Turf Equipment	2020	G2	C	6	15	3.718	224.659	2.794	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2020	G2	C	16	25	3.692	238.459	2.825	0.017	0.199	0.199	429.439	0.229
Commercial Turf Equipment	2020	G4	C	6	15	5.011	258.176	3.541	0.012	0.24	0.24	429.44	0.279
Commercial Turf Equipment	2020	G4	C	16	25	4.865	274.034	3.708	0.01	0.239	0.239	429.439	0.271
Commercial Turf Equipment	2021	G2	C	6	15	3.718	224.659	2.794	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2021	G2	C	16	25	3.692	238.46	2.825	0.017	0.199	0.199	429.439	0.229
Commercial Turf Equipment	2021	G4	C	6	15	5.011	258.15	3.541	0.012	0.24	0.24	429.439	0.279
Commercial Turf Equipment	2021	G4	C	16	25	4.864	274.007	3.708	0.01	0.24	0.24	429.44	0.271
Commercial Turf Equipment	2022	G2	C	6	15	3.718	224.659	2.794	0.017	0.2	0.2	429.439	0.231
Commercial Turf Equipment	2022	G2	C	16	25	3.692	238.46	2.825	0.017	0.199	0.199	429.439	0.229
Commercial Turf Equipment	2022	G4	C	6	15	5.01	258.115	3.54	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2022	G4	C	16	25	4.864	273.97	3.707	0.01	0.239	0.239	429.439	0.271
Commercial Turf Equipment	2023	G2	C	6	15	3.718	224.659	2.794	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2023	G2	C	16	25	3.692	238.46	2.825	0.017	0.199	0.199	429.44	0.229
Commercial Turf Equipment	2023	G4	C	6	15	5.01	258.08	3.54	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2023	G4	C	16	25	4.863	273.933	3.707	0.01	0.239	0.239	429.44	0.271
Commercial Turf Equipment	2024	G2	C	6	15	3.718	224.659	2.794	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2024	G2	C	16	25	3.692	238.46	2.825	0.017	0.2	0.2	429.439	0.229
Commercial Turf Equipment	2024	G4	C	6	15	5.009	258.043	3.54	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2024	G4	C	16	25	4.863	273.893	3.707	0.01	0.239	0.239	429.439	0.271
Commercial Turf Equipment	2025	G2	C	6	15	3.718	224.659	2.794	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2025	G2	C	16	25	3.692	238.459	2.825	0.017	0.2	0.2	429.439	0.229
Commercial Turf Equipment	2025	G4	C	6	15	5.008	258.005	3.54	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2025	G4	C	16	25	4.862	273.854	3.707	0.01	0.239	0.239	429.439	0.271
Commercial Turf Equipment	2030	G2	C	6	15	3.718	224.659	2.794	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2030	G2	C	16	25	3.692	238.459	2.825	0.017	0.199	0.199	429.439	0.229
Commercial Turf Equipment	2030	G4	C	6	15	5.005	257.808	3.539	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2030	G4	C	16	25	4.859	273.644	3.706	0.01	0.239	0.239	429.439	0.271
Commercial Turf Equipment	2035	G2	C	6	15	3.718	224.659	2.794	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2035	G2	C	16	25	3.692	238.459	2.826	0.017	0.199	0.199	429.439	0.229
Commercial Turf Equipment	2035	G4	C	6	15	5.002	257.605	3.537	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2035	G4	C	16	25	4.856	273.429	3.704	0.01	0.24	0.24	429.44	0.271

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Commercial Turf Equipment	2040	G2	C	6	15	3.718	224.659	2.794	0.017	0.199	0.199	429.439	0.231
Commercial Turf Equipment	2040	G2	C	16	25	3.692	238.459	2.826	0.017	0.199	0.199	429.439	0.229
Commercial Turf Equipment	2040	G4	C	6	15	4.999	257.385	3.536	0.012	0.239	0.239	429.439	0.279
Commercial Turf Equipment	2040	G4	C	16	25	4.853	273.195	3.703	0.01	0.239	0.239	429.439	0.271
Front Mowers	1990	G4	C	6	15	22.909	915.938	8.6	0.359	0.371	0.371	858.879	2.705
Front Mowers	1990	G4	C	16	25	21.231	912.759	8.476	0.319	0.371	0.371	858.879	2.507
Front Mowers	1990	G4	R	6	15	22.909	915.938	8.6	0.359	0.371	0.371	858.879	2.705
Front Mowers	1990	G4	R	16	25	21.231	912.759	8.476	0.319	0.371	0.371	858.879	2.507
Front Mowers	2000	G4	C	6	15	20.645	670.814	6.649	0.034	0.37	0.37	858.879	1.128
Front Mowers	2000	G4	C	16	25	18.437	666.497	5.668	0.03	0.37	0.37	858.879	1.007
Front Mowers	2000	G4	R	6	15	20.645	670.814	6.649	0.034	0.37	0.37	858.879	1.128
Front Mowers	2000	G4	R	16	25	18.437	666.497	5.668	0.03	0.37	0.37	858.879	1.007
Front Mowers	2005	G4	C	6	15	13.656	554.614	7.702	0.024	0.37	0.37	858.879	0.766
Front Mowers	2005	G4	C	16	25	13.498	576.678	6.968	0.021	0.37	0.37	858.879	0.758
Front Mowers	2005	G4	R	6	15	13.656	554.614	7.702	0.024	0.37	0.37	858.879	0.766
Front Mowers	2005	G4	R	16	25	13.498	576.678	6.968	0.021	0.37	0.37	858.879	0.758
Front Mowers	2010	G4	C	6	15	9.521	522.282	6.198	0.024	0.37	0.37	858.879	0.534
Front Mowers	2010	G4	C	16	25	9.505	550.919	5.959	0.021	0.37	0.37	858.879	0.534
Front Mowers	2010	G4	R	6	15	9.521	522.282	6.198	0.024	0.37	0.37	858.879	0.534
Front Mowers	2010	G4	R	16	25	9.505	550.919	5.959	0.021	0.37	0.37	858.879	0.534
Front Mowers	2011	G4	C	6	15	9.168	519.756	6.099	0.024	0.37	0.37	858.879	0.515
Front Mowers	2011	G4	C	16	25	9.185	549.03	5.885	0.021	0.37	0.37	858.879	0.516
Front Mowers	2011	G4	R	6	15	9.168	519.756	6.099	0.024	0.37	0.37	858.879	0.515
Front Mowers	2011	G4	R	16	25	9.185	549.03	5.885	0.021	0.37	0.37	858.879	0.516
Front Mowers	2012	G4	C	6	15	8.85	517.872	5.992	0.024	0.37	0.37	858.879	0.497
Front Mowers	2012	G4	C	16	25	8.887	547.664	5.805	0.021	0.37	0.37	858.879	0.499
Front Mowers	2012	G4	R	6	15	8.85	517.872	5.992	0.024	0.37	0.37	858.879	0.497
Front Mowers	2012	G4	R	16	25	8.887	547.664	5.805	0.021	0.37	0.37	858.879	0.499
Front Mowers	2013	G4	C	6	15	8.562	516.232	5.892	0.024	0.37	0.37	858.879	0.481
Front Mowers	2013	G4	C	16	25	8.612	546.487	5.732	0.021	0.37	0.37	858.879	0.484
Front Mowers	2013	G4	R	6	15	8.562	516.232	5.892	0.024	0.37	0.37	858.879	0.481
Front Mowers	2013	G4	R	16	25	8.612	546.487	5.732	0.021	0.37	0.37	858.879	0.484
Front Mowers	2014	G4	C	6	15	8.303	514.847	5.793	0.024	0.37	0.37	858.879	0.466
Front Mowers	2014	G4	C	16	25	8.36	545.482	5.66	0.021	0.37	0.37	858.879	0.469
Front Mowers	2014	G4	R	6	15	8.303	514.847	5.793	0.024	0.37	0.37	858.879	0.466
Front Mowers	2014	G4	R	16	25	8.36	545.482	5.66	0.021	0.37	0.37	858.879	0.469
Front Mowers	2015	G4	C	6	15	8.07	513.744	5.696	0.024	0.37	0.37	858.879	0.453
Front Mowers	2015	G4	C	16	25	8.128	544.687	5.589	0.021	0.37	0.37	858.879	0.456
Front Mowers	2015	G4	R	6	15	8.07	513.744	5.696	0.024	0.37	0.37	858.879	0.453
Front Mowers	2015	G4	R	16	25	8.128	544.687	5.589	0.021	0.37	0.37	858.879	0.456
Front Mowers	2016	G4	C	6	15	7.873	512.921	5.604	0.024	0.37	0.37	858.879	0.442
Front Mowers	2016	G4	C	16	25	7.924	544.091	5.523	0.021	0.37	0.37	858.879	0.445
Front Mowers	2016	G4	R	6	15	7.873	512.921	5.604	0.024	0.37	0.37	858.879	0.442
Front Mowers	2016	G4	R	16	25	7.924	544.091	5.523	0.021	0.37	0.37	858.879	0.445
Front Mowers	2017	G4	C	6	15	7.773	512.361	5.568	0.024	0.37	0.37	858.879	0.437
Front Mowers	2017	G4	C	16	25	7.826	543.68	5.499	0.021	0.37	0.37	858.879	0.44
Front Mowers	2017	G4	R	6	15	7.773	512.361	5.568	0.024	0.37	0.37	858.879	0.437
Front Mowers	2017	G4	R	16	25	7.826	543.68	5.499	0.021	0.37	0.37	858.879	0.44
Front Mowers	2018	G4	C	6	15	7.704	511.993	5.54	0.024	0.37	0.37	858.879	0.433
Front Mowers	2018	G4	C	16	25	7.756	543.404	5.48	0.021	0.37	0.37	858.88	0.436
Front Mowers	2018	G4	R	6	15	7.704	511.993	5.54	0.024	0.37	0.37	858.879	0.433
Front Mowers	2018	G4	R	16	25	7.756	543.404	5.48	0.021	0.37	0.37	858.88	0.436
Front Mowers	2019	G4	C	6	15	7.66	511.821	5.514	0.024	0.37	0.37	858.879	0.43
Front Mowers	2019	G4	C	16	25	7.707	543.26	5.463	0.021	0.37	0.37	858.879	0.433
Front Mowers	2019	G4	R	6	15	7.66	511.821	5.514	0.024	0.37	0.37	858.879	0.43
Front Mowers	2019	G4	R	16	25	7.707	543.26	5.463	0.021	0.37	0.37	858.879	0.433
Front Mowers	2020	G4	C	6	15	7.631	511.749	5.492	0.024	0.37	0.37	858.88	0.429
Front Mowers	2020	G4	C	16	25	7.672	543.183	5.446	0.021	0.37	0.37	858.879	0.431
Front Mowers	2020	G4	R	6	15	7.631	511.749	5.492	0.024	0.37	0.37	858.88	0.429
Front Mowers	2020	G4	R	16	25	7.672	543.183	5.446	0.021	0.37	0.37	858.879	0.431
Front Mowers	2021	G4	C	6	15	7.604	511.699	5.471	0.024	0.37	0.37	858.879	0.427
Front Mowers	2021	G4	C	16	25	7.641	543.13	5.43	0.021	0.37	0.37	858.879	0.429
Front Mowers	2021	G4	R	6	15	7.604	511.699	5.471	0.024	0.37	0.37	858.879	0.427
Front Mowers	2021	G4	R	16	25	7.641	543.13	5.43	0.021	0.37	0.37	858.879	0.429
Front Mowers	2022	G4	C	6	15	7.589	511.628	5.459	0.024	0.37	0.37	858.879	0.426
Front Mowers	2022	G4	C	16	25	7.622	543.055	5.422	0.021	0.37	0.37	858.879	0.428
Front Mowers	2022	G4	R	6	15	7.589	511.628	5.459	0.024	0.37	0.37	858.879	0.426
Front Mowers	2022	G4	R	16	25	7.622	543.055	5.422	0.021	0.37	0.37	858.879	0.428
Front Mowers	2023	G4	C	6	15	7.579	511.555	5.452	0.024	0.37	0.37	858.879	0.426
Front Mowers	2023	G4	C	16	25	7.609	542.977	5.417	0.021	0.37	0.37	858.879	0.428
Front Mowers	2023	G4	R	6	15	7.579	511.555	5.452	0.024	0.37	0.37	858.879	0.426
Front Mowers	2023	G4	R	16	25	7.609	542.977	5.417	0.021	0.37	0.37	858.879	0.428
Front Mowers	2024	G4	C	6	15	7.573	511.479	5.447	0.024	0.37	0.37	858.879	0.426
Front Mowers	2024	G4	C	16	25	7.602	542.897	5.414	0.021	0.37	0.37	858.879	0.427
Front Mowers	2024	G4	R	6	15	7.573	511.479	5.447	0.024	0.37	0.37	858.879	0.426
Front Mowers	2024	G4	R	16	25	7.602	542.897	5.414	0.021	0.37	0.37	858.879	0.427

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Front Mowers	2025	G4	C	6	15	7.571	511.402	5.445	0.024	0.37	0.37	858.879	0.426
Front Mowers	2025	G4	C	16	25	7.599	542.815	5.413	0.021	0.37	0.37	858.879	0.427
Front Mowers	2025	G4	R	6	15	7.571	511.402	5.445	0.024	0.37	0.37	858.879	0.426
Front Mowers	2025	G4	R	16	25	7.599	542.815	5.413	0.021	0.37	0.37	858.879	0.427
Front Mowers	2030	G4	C	6	15	7.565	510.995	5.443	0.024	0.37	0.37	858.879	0.426
Front Mowers	2030	G4	C	16	25	7.593	542.383	5.411	0.021	0.37	0.37	858.879	0.427
Front Mowers	2030	G4	R	6	15	7.565	510.995	5.443	0.024	0.37	0.37	858.879	0.426
Front Mowers	2030	G4	R	16	25	7.593	542.383	5.411	0.021	0.37	0.37	858.879	0.427
Front Mowers	2035	G4	C	6	15	7.56	510.58	5.441	0.024	0.37	0.37	858.879	0.426
Front Mowers	2035	G4	C	16	25	7.588	541.943	5.409	0.021	0.37	0.37	858.879	0.427
Front Mowers	2035	G4	R	6	15	7.56	510.58	5.441	0.024	0.37	0.37	858.879	0.426
Front Mowers	2035	G4	R	16	25	7.588	541.943	5.409	0.021	0.37	0.37	858.879	0.427
Front Mowers	2040	G4	C	6	15	7.554	510.128	5.438	0.024	0.37	0.37	858.879	0.425
Front Mowers	2040	G4	C	16	25	7.582	541.463	5.406	0.021	0.37	0.37	858.879	0.427
Front Mowers	2040	G4	R	6	15	7.554	510.128	5.438	0.024	0.37	0.37	858.879	0.425
Front Mowers	2040	G4	R	16	25	7.582	541.463	5.406	0.021	0.37	0.37	858.879	0.427
Lawn & Garden Tractors	1990	G4	C	6	15	18.822	906.929	8.251	0.359	0.325	0.325	858.879	2.223
Lawn & Garden Tractors	1990	G4	C	16	25	17.993	905.359	8.189	0.319	0.325	0.325	858.88	2.125
Lawn & Garden Tractors	1990	G4	R	6	15	18.822	906.929	8.251	0.359	0.325	0.325	858.879	2.223
Lawn & Garden Tractors	1990	G4	R	16	25	17.993	905.359	8.189	0.319	0.325	0.325	858.88	2.125
Lawn & Garden Tractors	2000	G4	C	6	15	15.672	650.815	6.587	0.034	0.324	0.324	858.879	0.856
Lawn & Garden Tractors	2000	G4	C	16	25	14.456	658.129	5.618	0.03	0.324	0.324	858.879	0.79
Lawn & Garden Tractors	2000	G4	R	6	15	15.672	650.815	6.587	0.034	0.324	0.324	858.879	0.856
Lawn & Garden Tractors	2000	G4	R	16	25	14.456	658.129	5.618	0.03	0.324	0.324	858.879	0.79
Lawn & Garden Tractors	2005	G4	C	6	15	11.473	549.36	7.036	0.024	0.324	0.324	858.879	0.644
Lawn & Garden Tractors	2005	G4	C	16	25	11.524	574.455	6.354	0.021	0.324	0.324	858.879	0.647
Lawn & Garden Tractors	2005	G4	R	6	15	11.473	549.36	7.036	0.024	0.324	0.324	858.879	0.644
Lawn & Garden Tractors	2005	G4	R	16	25	11.524	574.455	6.354	0.021	0.324	0.324	858.879	0.647
Lawn & Garden Tractors	2010	G4	C	6	15	8.137	520.395	5.536	0.024	0.324	0.324	858.879	0.457
Lawn & Garden Tractors	2010	G4	C	16	25	8.287	550.131	5.203	0.021	0.324	0.324	858.879	0.465
Lawn & Garden Tractors	2010	G4	R	6	15	8.137	520.395	5.536	0.024	0.324	0.324	858.879	0.457
Lawn & Garden Tractors	2010	G4	R	16	25	8.287	550.131	5.203	0.021	0.324	0.324	858.879	0.465
Lawn & Garden Tractors	2011	G4	C	6	15	7.862	518.247	5.427	0.024	0.324	0.324	858.879	0.441
Lawn & Garden Tractors	2011	G4	C	16	25	8.029	548.398	5.114	0.021	0.324	0.324	858.879	0.451
Lawn & Garden Tractors	2011	G4	R	6	15	7.862	518.247	5.427	0.024	0.324	0.324	858.879	0.441
Lawn & Garden Tractors	2011	G4	R	16	25	8.029	548.398	5.114	0.021	0.324	0.324	858.879	0.451
Lawn & Garden Tractors	2012	G4	C	6	15	7.611	516.686	5.314	0.024	0.324	0.324	858.879	0.427
Lawn & Garden Tractors	2012	G4	C	16	25	7.787	547.16	5.023	0.021	0.324	0.324	858.879	0.437
Lawn & Garden Tractors	2012	G4	R	6	15	7.611	516.686	5.314	0.024	0.324	0.324	858.879	0.427
Lawn & Garden Tractors	2012	G4	R	16	25	7.787	547.16	5.023	0.021	0.324	0.324	858.879	0.437
Lawn & Garden Tractors	2013	G4	C	6	15	7.383	515.349	5.21	0.024	0.324	0.324	858.879	0.414
Lawn & Garden Tractors	2013	G4	C	16	25	7.566	546.1	4.939	0.021	0.324	0.324	858.879	0.425
Lawn & Garden Tractors	2013	G4	R	6	15	7.383	515.349	5.21	0.024	0.324	0.324	858.879	0.414
Lawn & Garden Tractors	2013	G4	R	16	25	7.566	546.1	4.939	0.021	0.324	0.324	858.879	0.425
Lawn & Garden Tractors	2014	G4	C	6	15	7.177	514.218	5.11	0.024	0.324	0.324	858.879	0.403
Lawn & Garden Tractors	2014	G4	C	16	25	7.361	545.193	4.858	0.021	0.324	0.324	858.879	0.413
Lawn & Garden Tractors	2014	G4	R	6	15	7.177	514.218	5.11	0.024	0.324	0.324	858.879	0.403
Lawn & Garden Tractors	2014	G4	R	16	25	7.361	545.193	4.858	0.021	0.324	0.324	858.879	0.413
Lawn & Garden Tractors	2015	G4	C	6	15	6.989	513.324	5.013	0.024	0.324	0.324	858.879	0.392
Lawn & Garden Tractors	2015	G4	C	16	25	7.172	544.478	4.78	0.021	0.324	0.324	858.879	0.403
Lawn & Garden Tractors	2015	G4	R	6	15	6.989	513.324	5.013	0.024	0.324	0.324	858.879	0.392
Lawn & Garden Tractors	2015	G4	R	16	25	7.172	544.478	4.78	0.021	0.324	0.324	858.879	0.403
Lawn & Garden Tractors	2016	G4	C	6	15	6.827	512.658	4.923	0.024	0.324	0.324	858.88	0.383
Lawn & Garden Tractors	2016	G4	C	16	25	7.005	543.942	4.708	0.021	0.324	0.324	858.879	0.393
Lawn & Garden Tractors	2016	G4	R	6	15	6.827	512.658	4.923	0.024	0.324	0.324	858.88	0.383
Lawn & Garden Tractors	2016	G4	R	16	25	7.005	543.942	4.708	0.021	0.324	0.324	858.879	0.393
Lawn & Garden Tractors	2017	G4	C	6	15	6.75	512.203	4.887	0.024	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2017	G4	C	16	25	6.928	543.572	4.68	0.021	0.324	0.324	858.879	0.389
Lawn & Garden Tractors	2017	G4	R	6	15	6.75	512.203	4.887	0.024	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2017	G4	R	16	25	6.928	543.572	4.68	0.021	0.324	0.324	858.879	0.389
Lawn & Garden Tractors	2018	G4	C	6	15	6.696	511.901	4.86	0.024	0.324	0.324	858.879	0.376
Lawn & Garden Tractors	2018	G4	C	16	25	6.872	543.321	4.659	0.021	0.324	0.324	858.879	0.386
Lawn & Garden Tractors	2018	G4	R	6	15	6.696	511.901	4.86	0.024	0.324	0.324	858.879	0.376
Lawn & Garden Tractors	2018	G4	R	16	25	6.872	543.321	4.659	0.021	0.324	0.324	858.879	0.386
Lawn & Garden Tractors	2019	G4	C	6	15	6.658	511.751	4.836	0.024	0.324	0.324	858.88	0.374
Lawn & Garden Tractors	2019	G4	C	16	25	6.831	543.186	4.64	0.021	0.324	0.324	858.879	0.384
Lawn & Garden Tractors	2019	G4	R	6	15	6.658	511.751	4.836	0.024	0.324	0.324	858.88	0.374
Lawn & Garden Tractors	2019	G4	R	16	25	6.831	543.186	4.64	0.021	0.324	0.324	858.879	0.384
Lawn & Garden Tractors	2020	G4	C	6	15	6.632	511.679	4.816	0.024	0.324	0.324	858.879	0.373
Lawn & Garden Tractors	2020	G4	C	16	25	6.801	543.109	4.624	0.021	0.324	0.324	858.88	0.382
Lawn & Garden Tractors	2020	G4	R	6	15	6.632	511.679	4.816	0.024	0.324	0.324	858.879	0.373
Lawn & Garden Tractors	2020	G4	R	16	25	6.801	543.109	4.624	0.021	0.324	0.324	858.88	0.382
Lawn & Garden Tractors	2021	G4	C	6	15	6.609	511.629	4.799	0.024	0.324	0.324	858.879	0.371
Lawn & Garden Tractors	2021	G4	C	16	25	6.775	543.056	4.609	0.021	0.324	0.324	858.879	0.381
Lawn & Garden Tractors	2021	G4	R	6	15	6.609	511.629	4.799	0.024	0.324	0.324	858.879	0.371
Lawn & Garden Tractors	2021	G4	R	16	25	6.775	543.056	4.609	0.021	0.324	0.324	858.879	0.381

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Lawn & Garden Tractors	2022	G4	C	6	15	6.595	511.558	4.788	0.024	0.324	0.324	858.88	0.371
Lawn & Garden Tractors	2022	G4	C	16	25	6.759	542.981	4.601	0.021	0.324	0.324	858.879	0.38
Lawn & Garden Tractors	2022	G4	R	6	15	6.595	511.558	4.788	0.024	0.324	0.324	858.88	0.371
Lawn & Garden Tractors	2022	G4	R	16	25	6.759	542.981	4.601	0.021	0.324	0.324	858.879	0.38
Lawn & Garden Tractors	2023	G4	C	6	15	6.586	511.485	4.781	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2023	G4	C	16	25	6.748	542.904	4.596	0.021	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2023	G4	R	6	15	6.586	511.485	4.781	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2023	G4	R	16	25	6.748	542.904	4.596	0.021	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2024	G4	C	6	15	6.58	511.409	4.777	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2024	G4	C	16	25	6.742	542.823	4.593	0.021	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2024	G4	R	6	15	6.58	511.409	4.777	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2024	G4	R	16	25	6.742	542.823	4.593	0.021	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2025	G4	C	6	15	6.578	511.332	4.776	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2025	G4	C	16	25	6.739	542.741	4.592	0.021	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2025	G4	R	6	15	6.578	511.332	4.776	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2025	G4	R	16	25	6.739	542.741	4.592	0.021	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2030	G4	C	6	15	6.573	510.925	4.774	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2030	G4	C	16	25	6.734	542.309	4.59	0.021	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2030	G4	R	6	15	6.573	510.925	4.774	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2030	G4	R	16	25	6.734	542.309	4.59	0.021	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2035	G4	C	6	15	6.569	510.509	4.772	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2035	G4	C	16	25	6.73	541.868	4.588	0.021	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2035	G4	R	6	15	6.569	510.509	4.772	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2035	G4	R	16	25	6.73	541.868	4.588	0.021	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2040	G4	C	6	15	6.564	510.057	4.77	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2040	G4	C	16	25	6.725	541.388	4.586	0.021	0.324	0.324	858.879	0.379
Lawn & Garden Tractors	2040	G4	R	6	15	6.564	510.057	4.77	0.024	0.324	0.324	858.879	0.37
Lawn & Garden Tractors	2040	G4	R	16	25	6.725	541.388	4.586	0.021	0.324	0.324	858.879	0.379
Lawn Mowers	1990	G2	C	6	15	383.517	971.999	0.625	0.518	15.399	15.399	858.879	32.707
Lawn Mowers	1990	G2	R	6	15	383.517	971.999	0.625	0.518	15.399	15.399	858.879	32.707
Lawn Mowers	1990	G4	C	3	5	86.165	1366.863	4.921	0.434	2.4	2.4	858.879	10.153
Lawn Mowers	1990	G4	R	3	5	86.165	1366.863	4.921	0.434	2.4	2.4	858.879	10.153
Lawn Mowers	2000	G2	C	6	15	130.787	652.886	4.523	0.049	6.279	6.279	858.879	7.916
Lawn Mowers	2000	G2	R	6	15	130.787	652.886	4.523	0.049	6.279	6.279	858.879	7.916
Lawn Mowers	2000	G4	C	3	5	48.547	784.748	5.953	0.041	2.374	2.374	858.879	2.647
Lawn Mowers	2000	G4	R	3	5	48.547	784.748	5.953	0.041	2.374	2.374	858.879	2.647
Lawn Mowers	2005	G2	C	6	15	75.706	444.858	6.544	0.035	4.545	4.545	858.879	4.705
Lawn Mowers	2005	G2	R	6	15	75.706	444.858	6.544	0.035	4.545	4.545	858.879	4.705
Lawn Mowers	2005	G4	C	3	5	28.282	507.847	7.674	0.029	2.383	2.383	858.879	1.584
Lawn Mowers	2005	G4	R	3	5	28.282	507.847	7.674	0.029	2.383	2.383	858.879	1.584
Lawn Mowers	2010	G2	C	6	15	37.533	394.484	4.563	0.035	3.166	3.166	858.879	2.332
Lawn Mowers	2010	G2	R	6	15	37.533	394.484	4.563	0.035	3.166	3.166	858.879	2.332
Lawn Mowers	2010	G4	C	3	5	20.231	435.249	4.987	0.029	2.381	2.381	858.879	1.133
Lawn Mowers	2010	G4	R	3	5	20.231	435.249	4.987	0.029	2.381	2.381	858.879	1.133
Lawn Mowers	2011	G2	C	6	15	33.131	386.729	4.556	0.035	3.01	3.01	858.879	2.059
Lawn Mowers	2011	G2	R	6	15	33.131	386.729	4.556	0.035	3.01	3.01	858.879	2.059
Lawn Mowers	2011	G4	C	3	5	19.247	423.873	4.891	0.029	2.38	2.38	858.879	1.078
Lawn Mowers	2011	G4	R	3	5	19.247	423.873	4.891	0.029	2.38	2.38	858.879	1.078
Lawn Mowers	2012	G2	C	6	15	30.298	379.152	4.527	0.035	2.919	2.919	858.879	1.883
Lawn Mowers	2012	G2	R	6	15	30.298	379.152	4.527	0.035	2.919	2.919	858.879	1.883
Lawn Mowers	2012	G4	C	3	5	18.305	412.931	4.798	0.029	2.381	2.381	858.879	1.025
Lawn Mowers	2012	G4	R	3	5	18.305	412.931	4.798	0.029	2.381	2.381	858.879	1.025
Lawn Mowers	2013	G2	C	6	15	27.835	371.274	4.494	0.035	2.844	2.844	858.88	1.73
Lawn Mowers	2013	G2	R	6	15	27.835	371.274	4.494	0.035	2.844	2.844	858.88	1.73
Lawn Mowers	2013	G4	C	3	5	17.668	406.495	4.682	0.029	2.381	2.381	858.879	0.99
Lawn Mowers	2013	G4	R	3	5	17.668	406.495	4.682	0.029	2.381	2.381	858.879	0.99
Lawn Mowers	2014	G2	C	6	15	25.61	363.536	4.459	0.035	2.778	2.778	858.88	1.591
Lawn Mowers	2014	G2	R	6	15	25.61	363.536	4.459	0.035	2.778	2.778	858.88	1.591
Lawn Mowers	2014	G4	C	3	5	17.182	401.969	4.559	0.029	2.382	2.382	858.879	0.963
Lawn Mowers	2014	G4	R	3	5	17.182	401.969	4.559	0.029	2.382	2.382	858.879	0.963
Lawn Mowers	2015	G2	C	6	15	23.509	356.086	4.423	0.035	2.717	2.717	858.879	1.461
Lawn Mowers	2015	G2	R	6	15	23.509	356.086	4.423	0.035	2.717	2.717	858.879	1.461
Lawn Mowers	2015	G4	C	3	5	16.757	398.042	4.439	0.029	2.382	2.382	858.879	0.939
Lawn Mowers	2015	G4	R	3	5	16.757	398.042	4.439	0.029	2.382	2.382	858.879	0.939
Lawn Mowers	2016	G2	C	6	15	21.721	349.443	4.379	0.035	2.667	2.667	858.88	1.35
Lawn Mowers	2016	G2	R	6	15	21.721	349.443	4.379	0.035	2.667	2.667	858.88	1.35
Lawn Mowers	2016	G4	C	3	5	16.373	394.716	4.316	0.029	2.382	2.382	858.879	0.918
Lawn Mowers	2016	G4	R	3	5	16.373	394.716	4.316	0.029	2.382	2.382	858.879	0.918
Lawn Mowers	2017	G2	C	6	15	20.274	345.234	4.317	0.035	2.623	2.623	858.879	1.26
Lawn Mowers	2017	G2	R	6	15	20.274	345.234	4.317	0.035	2.623	2.623	858.879	1.26
Lawn Mowers	2017	G4	C	3	5	16.064	392.295	4.195	0.029	2.382	2.382	858.879	0.9
Lawn Mowers	2017	G4	R	3	5	16.064	392.295	4.195	0.029	2.382	2.382	858.879	0.9
Lawn Mowers	2018	G2	C	6	15	19.036	342.185	4.25	0.035	2.585	2.585	858.879	1.183
Lawn Mowers	2018	G2	R	6	15	19.036	342.185	4.25	0.035	2.585	2.585	858.879	1.183
Lawn Mowers	2018	G4	C	3	5	15.797	390.553	4.072	0.029	2.381	2.381	858.879	0.886
Lawn Mowers	2018	G4	R	3	5	15.797	390.553	4.072	0.029	2.381	2.381	858.879	0.886

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Lawn Mowers	2019	G2	C	6	15	17.952	339.506	4.179	0.035	2.552	2.552	858.879	1.115
Lawn Mowers	2019	G2	R	6	15	17.952	339.506	4.179	0.035	2.552	2.552	858.879	1.115
Lawn Mowers	2019	G4	C	3	5	15.63	389.143	4.016	0.029	2.38	2.38	858.879	0.876
Lawn Mowers	2019	G4	R	3	5	15.63	389.143	4.016	0.029	2.38	2.38	858.879	0.876
Lawn Mowers	2020	G2	C	6	15	17.063	337.156	4.108	0.035	2.525	2.525	858.88	1.06
Lawn Mowers	2020	G2	R	6	15	17.063	337.156	4.108	0.035	2.525	2.525	858.88	1.06
Lawn Mowers	2020	G4	C	3	5	15.516	387.971	3.981	0.029	2.381	2.381	858.879	0.87
Lawn Mowers	2020	G4	R	3	5	15.516	387.971	3.981	0.029	2.381	2.381	858.879	0.87
Lawn Mowers	2021	G2	C	6	15	16.284	335.258	4.034	0.035	2.501	2.501	858.879	1.012
Lawn Mowers	2021	G2	R	6	15	16.284	335.258	4.034	0.035	2.501	2.501	858.879	1.012
Lawn Mowers	2021	G4	C	3	5	15.42	387.332	3.946	0.029	2.379	2.379	858.879	0.865
Lawn Mowers	2021	G4	R	3	5	15.42	387.332	3.946	0.029	2.379	2.379	858.879	0.865
Lawn Mowers	2022	G2	C	6	15	15.732	333.499	3.97	0.035	2.487	2.487	858.879	0.977
Lawn Mowers	2022	G2	R	6	15	15.732	333.499	3.97	0.035	2.487	2.487	858.879	0.977
Lawn Mowers	2022	G4	C	3	5	15.359	386.662	3.917	0.029	2.38	2.38	858.879	0.861
Lawn Mowers	2022	G4	R	3	5	15.359	386.662	3.917	0.029	2.38	2.38	858.879	0.861
Lawn Mowers	2023	G2	C	6	15	15.272	331.902	3.938	0.035	2.474	2.474	858.879	0.949
Lawn Mowers	2023	G2	R	6	15	15.272	331.902	3.938	0.035	2.474	2.474	858.879	0.949
Lawn Mowers	2023	G4	C	3	5	15.32	386.308	3.893	0.029	2.38	2.38	858.879	0.859
Lawn Mowers	2023	G4	R	3	5	15.32	386.308	3.893	0.029	2.38	2.38	858.879	0.859
Lawn Mowers	2024	G2	C	6	15	14.912	330.523	3.919	0.035	2.465	2.465	858.879	0.926
Lawn Mowers	2024	G2	R	6	15	14.912	330.523	3.919	0.035	2.465	2.465	858.879	0.926
Lawn Mowers	2024	G4	C	3	5	15.299	386.129	3.871	0.029	2.38	2.38	858.879	0.858
Lawn Mowers	2024	G4	R	3	5	15.299	386.129	3.871	0.029	2.38	2.38	858.879	0.858
Lawn Mowers	2025	G2	C	6	15	14.672	329.458	3.9	0.035	2.459	2.459	858.879	0.911
Lawn Mowers	2025	G2	R	6	15	14.672	329.458	3.9	0.035	2.459	2.459	858.879	0.911
Lawn Mowers	2025	G4	C	3	5	15.289	386.029	3.852	0.029	2.38	2.38	858.879	0.858
Lawn Mowers	2025	G4	R	3	5	15.289	386.029	3.852	0.029	2.38	2.38	858.879	0.858
Lawn Mowers	2030	G2	C	6	15	14.354	327.334	3.814	0.035	2.455	2.455	858.879	0.892
Lawn Mowers	2030	G2	R	6	15	14.354	327.334	3.814	0.035	2.455	2.455	858.879	0.892
Lawn Mowers	2030	G4	C	3	5	15.26	385.707	3.815	0.029	2.38	2.38	858.879	0.857
Lawn Mowers	2030	G4	R	3	5	15.26	385.707	3.815	0.029	2.38	2.38	858.879	0.857
Lawn Mowers	2035	G2	C	6	15	14.32	327.145	3.775	0.035	2.455	2.455	858.879	0.89
Lawn Mowers	2035	G2	R	6	15	14.32	327.145	3.775	0.035	2.455	2.455	858.879	0.89
Lawn Mowers	2035	G4	C	3	5	15.244	385.494	3.812	0.029	2.38	2.38	858.879	0.856
Lawn Mowers	2035	G4	R	3	5	15.244	385.494	3.812	0.029	2.38	2.38	858.879	0.856
Lawn Mowers	2040	G2	C	6	15	14.316	327.185	3.769	0.035	2.454	2.454	858.879	0.889
Lawn Mowers	2040	G2	R	6	15	14.316	327.185	3.769	0.035	2.454	2.454	858.879	0.889
Lawn Mowers	2040	G4	C	3	5	15.234	385.112	3.811	0.029	2.38	2.38	858.879	0.857
Lawn Mowers	2040	G4	R	3	5	15.234	385.112	3.811	0.029	2.38	2.38	858.879	0.857
Leaf Blowers/Vacuums	1990	G2	C	0	2	417.573	1480.719	2.069	0.518	7.199	7.199	858.879	35.612
Leaf Blowers/Vacuums	1990	G2	R	0	2	417.573	1480.719	2.069	0.518	7.199	7.199	858.879	35.612
Leaf Blowers/Vacuums	1990	G4	C	3	5	66.617	1240.719	4.859	0.434	1.867	1.867	858.879	7.869
Leaf Blowers/Vacuums	1990	G4	R	3	5	66.617	1240.719	4.859	0.434	1.867	1.867	858.879	7.869
Leaf Blowers/Vacuums	2000	G2	C	0	2	241.563	630.464	2.96	0.049	3.973	3.973	858.879	14.621
Leaf Blowers/Vacuums	2000	G2	R	0	2	241.563	630.464	2.96	0.049	3.973	3.973	858.879	14.621
Leaf Blowers/Vacuums	2000	G4	C	3	5	36.418	783.667	5.349	0.041	1.858	1.858	858.879	1.99
Leaf Blowers/Vacuums	2000	G4	R	3	5	36.418	783.667	5.349	0.041	1.858	1.858	858.879	1.99
Leaf Blowers/Vacuums	2005	G2	C	0	2	180.783	495.991	2.743	0.035	2.565	2.565	858.879	11.236
Leaf Blowers/Vacuums	2005	G2	R	0	2	180.783	495.991	2.743	0.035	2.565	2.565	858.879	11.236
Leaf Blowers/Vacuums	2005	G4	C	3	5	24.991	596.754	6.325	0.029	1.861	1.861	858.879	1.403
Leaf Blowers/Vacuums	2005	G4	R	3	5	24.991	596.754	6.325	0.029	1.861	1.861	858.879	1.403
Leaf Blowers/Vacuums	2010	G2	C	0	2	136.866	396.425	2.775	0.035	1.656	1.656	858.879	8.506
Leaf Blowers/Vacuums	2010	G2	R	0	2	136.866	396.425	2.775	0.035	1.656	1.656	858.879	8.506
Leaf Blowers/Vacuums	2010	G4	C	3	5	17.271	539.377	3.881	0.029	1.863	1.863	858.879	0.97
Leaf Blowers/Vacuums	2010	G4	R	3	5	17.271	539.377	3.881	0.029	1.863	1.863	858.879	0.97
Leaf Blowers/Vacuums	2011	G2	C	0	2	129.72	382.943	2.794	0.035	1.478	1.478	858.879	8.062
Leaf Blowers/Vacuums	2011	G2	R	0	2	129.72	382.943	2.794	0.035	1.478	1.478	858.879	8.062
Leaf Blowers/Vacuums	2011	G4	C	3	5	16.444	531.587	3.798	0.029	1.862	1.862	858.879	0.923
Leaf Blowers/Vacuums	2011	G4	R	3	5	16.444	531.587	3.798	0.029	1.862	1.862	858.879	0.923
Leaf Blowers/Vacuums	2012	G2	C	0	2	123.505	372.378	2.811	0.035	1.314	1.314	858.88	7.676
Leaf Blowers/Vacuums	2012	G2	R	0	2	123.505	372.378	2.811	0.035	1.314	1.314	858.88	7.676
Leaf Blowers/Vacuums	2012	G4	C	3	5	15.817	524.344	3.715	0.029	1.862	1.862	858.879	0.888
Leaf Blowers/Vacuums	2012	G4	R	3	5	15.817	524.344	3.715	0.029	1.862	1.862	858.879	0.888
Leaf Blowers/Vacuums	2013	G2	C	0	2	117.639	362.541	2.826	0.035	1.158	1.158	858.879	7.311
Leaf Blowers/Vacuums	2013	G2	R	0	2	117.639	362.541	2.826	0.035	1.158	1.158	858.879	7.311
Leaf Blowers/Vacuums	2013	G4	C	3	5	15.23	517.066	3.632	0.029	1.862	1.862	858.879	0.855
Leaf Blowers/Vacuums	2013	G4	R	3	5	15.23	517.066	3.632	0.029	1.862	1.862	858.879	0.855
Leaf Blowers/Vacuums	2014	G2	C	0	2	112.276	353.588	2.838	0.035	1.015	1.015	858.879	6.978
Leaf Blowers/Vacuums	2014	G2	R	0	2	112.276	353.588	2.838	0.035	1.015	1.015	858.879	6.978
Leaf Blowers/Vacuums	2014	G4	C	3	5	14.675	509.992	3.552	0.029	1.862	1.862	858.879	0.824
Leaf Blowers/Vacuums	2014	G4	R	3	5	14.675	509.992	3.552	0.029	1.862	1.862	858.879	0.824
Leaf Blowers/Vacuums	2015	G2	C	0	2	107.472	345.461	2.846	0.035	0.886	0.886	858.879	6.679
Leaf Blowers/Vacuums	2015	G2	R	0	2	107.472	345.461	2.846	0.035	0.886	0.886	858.879	6.679
Leaf Blowers/Vacuums	2015	G4	C	3	5	14.134	503.126	3.474	0.029	1.862	1.862	858.879	0.794
Leaf Blowers/Vacuums	2015	G4	R	3	5	14.134	503.126	3.474	0.029	1.862	1.862	858.879	0.794

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Leaf Blowers/Vacuums	2016	G2	C	0	2	104.485	340.134	2.839	0.035	0.812	0.812	858.879	6.494
Leaf Blowers/Vacuums	2016	G2	R	0	2	104.485	340.134	2.839	0.035	0.812	0.812	858.879	6.494
Leaf Blowers/Vacuums	2016	G4	C	3	5	13.639	496.909	3.395	0.029	1.862	1.862	858.879	0.766
Leaf Blowers/Vacuums	2016	G4	R	3	5	13.639	496.909	3.395	0.029	1.862	1.862	858.879	0.766
Leaf Blowers/Vacuums	2017	G2	C	0	2	102.351	336.104	2.824	0.035	0.762	0.762	858.879	6.361
Leaf Blowers/Vacuums	2017	G2	R	0	2	102.351	336.104	2.824	0.035	0.762	0.762	858.879	6.361
Leaf Blowers/Vacuums	2017	G4	C	3	5	13.189	491.294	3.319	0.029	1.862	1.862	858.879	0.741
Leaf Blowers/Vacuums	2017	G4	R	3	5	13.189	491.294	3.319	0.029	1.862	1.862	858.879	0.741
Leaf Blowers/Vacuums	2018	G2	C	0	2	100.502	332.58	2.809	0.035	0.72	0.72	858.879	6.246
Leaf Blowers/Vacuums	2018	G2	R	0	2	100.502	332.58	2.809	0.035	0.72	0.72	858.879	6.246
Leaf Blowers/Vacuums	2018	G4	C	3	5	12.834	487.616	3.236	0.029	1.862	1.862	858.879	0.721
Leaf Blowers/Vacuums	2018	G4	R	3	5	12.834	487.616	3.236	0.029	1.862	1.862	858.879	0.721
Leaf Blowers/Vacuums	2019	G2	C	0	2	98.866	329.492	2.795	0.035	0.682	0.682	858.879	6.145
Leaf Blowers/Vacuums	2019	G2	R	0	2	98.866	329.492	2.795	0.035	0.682	0.682	858.879	6.145
Leaf Blowers/Vacuums	2019	G4	C	3	5	12.534	484.905	3.151	0.029	1.862	1.862	858.879	0.704
Leaf Blowers/Vacuums	2019	G4	R	3	5	12.534	484.905	3.151	0.029	1.862	1.862	858.879	0.704
Leaf Blowers/Vacuums	2020	G2	C	0	2	97.445	326.883	2.783	0.035	0.647	0.647	858.879	6.056
Leaf Blowers/Vacuums	2020	G2	R	0	2	97.445	326.883	2.783	0.035	0.647	0.647	858.879	6.056
Leaf Blowers/Vacuums	2020	G4	C	3	5	12.271	482.619	3.068	0.029	1.862	1.862	858.879	0.69
Leaf Blowers/Vacuums	2020	G4	R	3	5	12.271	482.619	3.068	0.029	1.862	1.862	858.879	0.69
Leaf Blowers/Vacuums	2021	G2	C	0	2	96.221	324.651	2.778	0.035	0.618	0.618	858.879	5.98
Leaf Blowers/Vacuums	2021	G2	R	0	2	96.221	324.651	2.778	0.035	0.618	0.618	858.879	5.98
Leaf Blowers/Vacuums	2021	G4	C	3	5	12.022	480.736	2.987	0.029	1.861	1.861	858.88	0.676
Leaf Blowers/Vacuums	2021	G4	R	3	5	12.022	480.736	2.987	0.029	1.861	1.861	858.88	0.676
Leaf Blowers/Vacuums	2022	G2	C	0	2	95.338	322.937	2.777	0.035	0.593	0.593	858.879	5.925
Leaf Blowers/Vacuums	2022	G2	R	0	2	95.338	322.937	2.777	0.035	0.593	0.593	858.879	5.925
Leaf Blowers/Vacuums	2022	G4	C	3	5	11.831	478.893	2.919	0.029	1.862	1.862	858.879	0.665
Leaf Blowers/Vacuums	2022	G4	R	3	5	11.831	478.893	2.919	0.029	1.862	1.862	858.879	0.665
Leaf Blowers/Vacuums	2023	G2	C	0	2	94.546	321.418	2.776	0.035	0.57	0.57	858.879	5.876
Leaf Blowers/Vacuums	2023	G2	R	0	2	94.546	321.418	2.776	0.035	0.57	0.57	858.879	5.876
Leaf Blowers/Vacuums	2023	G4	C	3	5	11.68	477.385	2.88	0.029	1.862	1.862	858.879	0.657
Leaf Blowers/Vacuums	2023	G4	R	3	5	11.68	477.385	2.88	0.029	1.862	1.862	858.879	0.657
Leaf Blowers/Vacuums	2024	G2	C	0	2	93.882	320.179	2.775	0.035	0.551	0.551	858.879	5.835
Leaf Blowers/Vacuums	2024	G2	R	0	2	93.882	320.179	2.775	0.035	0.551	0.551	858.879	5.835
Leaf Blowers/Vacuums	2024	G4	C	3	5	11.564	476.014	2.857	0.029	1.862	1.862	858.879	0.65
Leaf Blowers/Vacuums	2024	G4	R	3	5	11.564	476.014	2.857	0.029	1.862	1.862	858.879	0.65
Leaf Blowers/Vacuums	2025	G2	C	0	2	93.358	319.298	2.773	0.035	0.535	0.535	858.879	5.802
Leaf Blowers/Vacuums	2025	G2	R	0	2	93.358	319.298	2.773	0.035	0.535	0.535	858.879	5.802
Leaf Blowers/Vacuums	2025	G4	C	3	5	11.468	474.959	2.835	0.029	1.862	1.862	858.879	0.645
Leaf Blowers/Vacuums	2025	G4	R	3	5	11.468	474.959	2.835	0.029	1.862	1.862	858.879	0.645
Leaf Blowers/Vacuums	2030	G2	C	0	2	92.149	317.793	2.764	0.035	0.5	0.5	858.879	5.727
Leaf Blowers/Vacuums	2030	G2	R	0	2	92.149	317.793	2.764	0.035	0.5	0.5	858.879	5.727
Leaf Blowers/Vacuums	2030	G4	C	3	5	11.222	472.216	2.754	0.029	1.861	1.861	858.879	0.632
Leaf Blowers/Vacuums	2030	G4	R	3	5	11.222	472.216	2.754	0.029	1.861	1.861	858.879	0.632
Leaf Blowers/Vacuums	2035	G2	C	0	2	92.074	317.76	2.758	0.035	0.499	0.499	858.879	5.722
Leaf Blowers/Vacuums	2035	G2	R	0	2	92.074	317.76	2.758	0.035	0.499	0.499	858.879	5.722
Leaf Blowers/Vacuums	2035	G4	C	3	5	11.16	471.482	2.717	0.029	1.861	1.861	858.879	0.628
Leaf Blowers/Vacuums	2035	G4	R	3	5	11.16	471.482	2.717	0.029	1.861	1.861	858.879	0.628
Leaf Blowers/Vacuums	2040	G2	C	0	2	92.063	317.759	2.758	0.035	0.499	0.499	858.879	5.722
Leaf Blowers/Vacuums	2040	G2	R	0	2	92.063	317.759	2.758	0.035	0.499	0.499	858.879	5.722
Leaf Blowers/Vacuums	2040	G4	C	3	5	11.147	471.083	2.711	0.029	1.861	1.861	858.879	0.628
Leaf Blowers/Vacuums	2040	G4	R	3	5	11.147	471.083	2.711	0.029	1.861	1.861	858.879	0.628
Other Lawn & Garden Equipment	1990	G2	C	0	2	417.573	1480.719	2.069	0.518	7.199	7.199	858.879	35.612
Other Lawn & Garden Equipment	1990	G2	R	6	15	294.22	1043.999	1.832	0.518	7.239	7.239	858.879	25.092
Other Lawn & Garden Equipment	1990	G2	C	0	2	417.573	1480.719	2.069	0.518	7.199	7.199	858.879	35.612
Other Lawn & Garden Equipment	1990	G2	R	6	15	294.22	1043.999	1.832	0.518	7.239	7.239	858.879	25.092
Other Lawn & Garden Equipment	1990	G4	C	3	5	70.524	1265.341	4.87	0.434	1.974	1.974	858.879	8.331
Other Lawn & Garden Equipment	1990	G4	R	6	15	18.248	905.68	8.202	0.359	0.318	0.318	858.879	2.155
Other Lawn & Garden Equipment	1990	G4	C	16	25	17.539	904.336	8.149	0.319	0.318	0.318	858.879	2.071
Other Lawn & Garden Equipment	1990	G4	R	3	5	70.524	1265.341	4.87	0.434	1.974	1.974	858.879	8.331
Other Lawn & Garden Equipment	1990	G4	R	6	15	18.248	905.68	8.202	0.359	0.318	0.318	858.879	2.155
Other Lawn & Garden Equipment	1990	G4	R	16	25	17.539	904.336	8.149	0.319	0.318	0.318	858.879	2.071
Other Lawn & Garden Equipment	2000	G2	C	0	2	255.682	687.225	2.511	0.049	5.341	5.341	858.879	15.475
Other Lawn & Garden Equipment	2000	G2	C	6	15	213.998	571.185	2.331	0.049	5.941	5.941	858.879	12.952
Other Lawn & Garden Equipment	2000	G2	R	0	2	255.682	687.225	2.511	0.049	5.341	5.341	858.879	15.475
Other Lawn & Garden Equipment	2000	G2	R	6	15	213.998	571.185	2.331	0.049	5.941	5.941	858.879	12.952
Other Lawn & Garden Equipment	2000	G4	C	3	5	38.922	777.377	5.505	0.041	1.967	1.967	858.879	2.127
Other Lawn & Garden Equipment	2000	G4	C	6	15	15.49	660.87	6.637	0.034	0.317	0.317	858.88	0.846
Other Lawn & Garden Equipment	2000	G4	R	16	25	14.439	666.768	5.802	0.03	0.317	0.317	858.879	0.789
Other Lawn & Garden Equipment	2000	G4	R	3	5	38.922	777.377	5.505	0.041	1.967	1.967	858.879	2.127
Other Lawn & Garden Equipment	2000	G4	R	6	15	15.49	660.87	6.637	0.034	0.317	0.317	858.88	0.846
Other Lawn & Garden Equipment	2000	G4	R	16	25	14.439	666.768	5.802	0.03	0.317	0.317	858.879	0.789
Other Lawn & Garden Equipment	2005	G2	C	0	2	159.33	495.992	3.006	0.035	2.565	2.565	858.879	9.903
Other Lawn & Garden Equipment	2005	G2	C	6	15	137.825	434.477	2.933	0.035	2.769	2.769	858.879	8.566
Other Lawn & Garden Equipment	2005	G2	R	0	2	159.33	495.992	3.006	0.035	2.565	2.565	858.879	9.903
Other Lawn & Garden Equipment	2005	G2	R	6	15	137.825	434.477	2.933	0.035	2.769	2.769	858.879	8.566

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Other Lawn & Garden Equipment	2005	G4	C	3	5	26.099	584.277	6.584	0.029	1.97	1.97	858.879	1.465
Other Lawn & Garden Equipment	2005	G4	C	6	15	11.731	569.53	7.02	0.024	0.318	0.318	858.879	0.658
Other Lawn & Garden Equipment	2005	G4	C	16	25	11.785	591.718	6.419	0.021	0.318	0.318	858.879	0.661
Other Lawn & Garden Equipment	2005	G4	R	3	5	26.099	584.277	6.584	0.029	1.97	1.97	858.879	1.465
Other Lawn & Garden Equipment	2005	G4	R	6	15	11.731	569.53	7.02	0.024	0.318	0.318	858.879	0.658
Other Lawn & Garden Equipment	2005	G4	R	16	25	11.785	591.718	6.419	0.021	0.318	0.318	858.879	0.661
Other Lawn & Garden Equipment	2010	G2	C	0	2	112.488	396.425	2.775	0.035	1.656	1.656	858.879	6.991
Other Lawn & Garden Equipment	2010	G2	C	6	15	103.891	373.197	2.732	0.035	1.818	1.818	858.879	6.457
Other Lawn & Garden Equipment	2010	G2	R	0	2	112.488	396.425	2.775	0.035	1.656	1.656	858.879	6.991
Other Lawn & Garden Equipment	2010	G2	R	6	15	103.891	373.197	2.732	0.035	1.818	1.818	858.879	6.457
Other Lawn & Garden Equipment	2010	G4	C	3	5	18.025	518.999	4.238	0.029	1.972	1.972	858.879	1.012
Other Lawn & Garden Equipment	2010	G4	C	6	15	8.92	540.914	5.705	0.024	0.318	0.318	858.879	0.501
Other Lawn & Garden Equipment	2010	G4	C	16	25	8.966	567.825	5.282	0.021	0.318	0.318	858.879	0.503
Other Lawn & Garden Equipment	2010	G4	R	3	5	18.025	518.999	4.238	0.029	1.972	1.972	858.879	1.012
Other Lawn & Garden Equipment	2010	G4	R	6	15	8.92	540.914	5.705	0.024	0.318	0.318	858.879	0.501
Other Lawn & Garden Equipment	2010	G4	R	16	25	8.966	567.825	5.282	0.021	0.318	0.318	858.879	0.503
Other Lawn & Garden Equipment	2011	G2	C	0	2	105.244	382.943	2.794	0.035	1.478	1.478	858.879	6.541
Other Lawn & Garden Equipment	2011	G2	C	6	15	98.289	364.342	2.758	0.035	1.619	1.619	858.879	6.109
Other Lawn & Garden Equipment	2011	G2	R	0	2	105.244	382.943	2.794	0.035	1.478	1.478	858.879	6.541
Other Lawn & Garden Equipment	2011	G2	R	6	15	98.289	364.342	2.758	0.035	1.619	1.619	858.879	6.109
Other Lawn & Garden Equipment	2011	G4	C	3	5	17.166	511.452	4.062	0.029	1.971	1.971	858.879	0.964
Other Lawn & Garden Equipment	2011	G4	C	6	15	8.57	538.09	5.532	0.024	0.318	0.318	858.879	0.481
Other Lawn & Garden Equipment	2011	G4	C	16	25	8.612	565.627	5.144	0.021	0.318	0.318	858.879	0.483
Other Lawn & Garden Equipment	2011	G4	R	3	5	17.166	511.452	4.062	0.029	1.971	1.971	858.879	0.964
Other Lawn & Garden Equipment	2011	G4	R	6	15	8.57	538.09	5.532	0.024	0.318	0.318	858.879	0.481
Other Lawn & Garden Equipment	2011	G4	R	16	25	8.612	565.627	5.144	0.021	0.318	0.318	858.879	0.483
Other Lawn & Garden Equipment	2012	G2	C	0	2	98.97	372.378	2.811	0.035	1.314	1.314	858.879	6.151
Other Lawn & Garden Equipment	2012	G2	C	6	15	93.154	356.813	2.781	0.035	1.431	1.431	858.879	5.79
Other Lawn & Garden Equipment	2012	G2	R	0	2	98.97	372.378	2.811	0.035	1.314	1.314	858.879	6.151
Other Lawn & Garden Equipment	2012	G2	R	6	15	93.154	356.813	2.781	0.035	1.431	1.431	858.879	5.79
Other Lawn & Garden Equipment	2012	G4	C	3	5	16.541	504.415	3.953	0.029	1.971	1.971	858.879	0.929
Other Lawn & Garden Equipment	2012	G4	C	6	15	8.305	534.997	5.415	0.024	0.318	0.318	858.879	0.466
Other Lawn & Garden Equipment	2012	G4	C	16	25	8.354	563.036	5.056	0.021	0.318	0.318	858.879	0.469
Other Lawn & Garden Equipment	2012	G4	R	3	5	16.541	504.415	3.953	0.029	1.971	1.971	858.879	0.929
Other Lawn & Garden Equipment	2012	G4	R	6	15	8.305	534.997	5.415	0.024	0.318	0.318	858.879	0.466
Other Lawn & Garden Equipment	2012	G4	R	16	25	8.354	563.036	5.056	0.021	0.318	0.318	858.879	0.469
Other Lawn & Garden Equipment	2013	G2	C	0	2	93.015	362.541	2.826	0.035	1.158	1.158	858.879	5.781
Other Lawn & Garden Equipment	2013	G2	C	6	15	88.205	349.607	2.801	0.035	1.252	1.252	858.879	5.482
Other Lawn & Garden Equipment	2013	G2	R	0	2	93.015	362.541	2.826	0.035	1.158	1.158	858.879	5.781
Other Lawn & Garden Equipment	2013	G2	R	6	15	88.205	349.607	2.801	0.035	1.252	1.252	858.879	5.482
Other Lawn & Garden Equipment	2013	G4	C	3	5	15.973	497.231	3.87	0.029	1.972	1.972	858.879	0.897
Other Lawn & Garden Equipment	2013	G4	C	6	15	8.091	531.613	5.338	0.024	0.318	0.318	858.879	0.454
Other Lawn & Garden Equipment	2013	G4	C	16	25	8.158	560.112	4.999	0.021	0.318	0.318	858.879	0.458
Other Lawn & Garden Equipment	2013	G4	R	3	5	15.973	497.231	3.87	0.029	1.972	1.972	858.879	0.897
Other Lawn & Garden Equipment	2013	G4	R	6	15	8.091	531.613	5.338	0.024	0.318	0.318	858.879	0.454
Other Lawn & Garden Equipment	2013	G4	R	16	25	8.158	560.112	4.999	0.021	0.318	0.318	858.879	0.458
Other Lawn & Garden Equipment	2014	G2	C	0	2	87.581	353.588	2.838	0.035	1.015	1.015	858.879	5.443
Other Lawn & Garden Equipment	2014	G2	C	6	15	83.672	342.992	2.819	0.035	1.086	1.086	858.879	5.2
Other Lawn & Garden Equipment	2014	G2	R	0	2	87.581	353.588	2.838	0.035	1.015	1.015	858.879	5.443
Other Lawn & Garden Equipment	2014	G2	R	6	15	83.672	342.992	2.819	0.035	1.086	1.086	858.879	5.2
Other Lawn & Garden Equipment	2014	G4	C	3	5	15.432	490.368	3.788	0.029	1.971	1.971	858.879	0.867
Other Lawn & Garden Equipment	2014	G4	C	6	15	7.988	528.312	5.278	0.024	0.318	0.318	858.879	0.443
Other Lawn & Garden Equipment	2014	G4	C	16	25	7.988	557.256	4.954	0.021	0.318	0.318	858.879	0.449
Other Lawn & Garden Equipment	2014	G4	R	3	5	15.432	490.368	3.788	0.029	1.971	1.971	858.879	0.867
Other Lawn & Garden Equipment	2014	G4	R	6	15	7.988	528.312	5.278	0.024	0.318	0.318	858.879	0.443
Other Lawn & Garden Equipment	2014	G4	R	16	25	7.988	557.256	4.954	0.021	0.318	0.318	858.879	0.449
Other Lawn & Garden Equipment	2015	G2	C	0	2	82.696	345.46	2.846	0.035	0.886	0.886	858.879	5.139
Other Lawn & Garden Equipment	2015	G2	C	6	15	79.612	337.013	2.832	0.035	0.937	0.937	858.879	4.948
Other Lawn & Garden Equipment	2015	G2	R	0	2	82.696	345.46	2.846	0.035	0.886	0.886	858.879	5.139
Other Lawn & Garden Equipment	2015	G2	R	6	15	79.612	337.013	2.832	0.035	0.937	0.937	858.879	4.948
Other Lawn & Garden Equipment	2015	G4	C	3	5	14.909	483.663	3.709	0.029	1.971	1.971	858.879	0.838
Other Lawn & Garden Equipment	2015	G4	C	6	15	7.71	525.103	5.22	0.024	0.318	0.318	858.879	0.433
Other Lawn & Garden Equipment	2015	G4	C	16	25	7.821	554.482	4.912	0.021	0.318	0.318	858.879	0.439
Other Lawn & Garden Equipment	2015	G4	R	3	5	14.909	483.663	3.709	0.029	1.971	1.971	858.879	0.838
Other Lawn & Garden Equipment	2015	G4	R	6	15	7.71	525.103	5.22	0.024	0.318	0.318	858.879	0.433
Other Lawn & Garden Equipment	2015	G4	R	16	25	7.821	554.482	4.912	0.021	0.318	0.318	858.879	0.439
Other Lawn & Garden Equipment	2016	G2	C	0	2	79.657	340.134	2.839	0.035	0.812	0.812	858.879	4.951
Other Lawn & Garden Equipment	2016	G2	C	6	15	77.163	333.3	2.827	0.035	0.853	0.853	858.879	4.796
Other Lawn & Garden Equipment	2016	G2	R	0	2	79.657	340.134	2.839	0.035	0.812	0.812	858.879	4.951
Other Lawn & Garden Equipment	2016	G2	R	6	15	77.163	333.3	2.827	0.035	0.853	0.853	858.879	4.796
Other Lawn & Garden Equipment	2016	G4	C	3	5	14.43	477.614	3.63	0.029	1.971	1.971	858.879	0.811
Other Lawn & Garden Equipment	2016	G4	C	6	15	7.53	522.211	5.164	0.024	0.318	0.318	858.88	0.423
Other Lawn & Garden Equipment	2016	G4	C	16	25	7.662	551.995	4.871	0.021	0.318	0.318	858.879	0.43
Other Lawn & Garden Equipment	2016	G4	R	3	5	14.43	477.614	3.63	0.029	1.971	1.971	858.879	0.811
Other Lawn & Garden Equipment	2016	G4	R	6	15	7.53	522.211	5.164	0.024	0.318	0.318	858.88	0.423
Other Lawn & Garden Equipment	2016	G4	R	16	25	7.662	551.995	4.871	0.021	0.318	0.318	858.879	0.43

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Other Lawn & Garden Equipment	2017	G2	C	0	2	77.493	336.104	2.824	0.035	0.762	0.762	858.879	4.816
Other Lawn & Garden Equipment	2017	G2	C	6	15	75.472	330.608	2.815	0.035	0.798	0.798	858.879	4.69
Other Lawn & Garden Equipment	2017	G2	R	0	2	77.493	336.104	2.824	0.035	0.762	0.762	858.879	4.816
Other Lawn & Garden Equipment	2017	G2	R	6	15	75.472	330.608	2.815	0.035	0.798	0.798	858.879	4.69
Other Lawn & Garden Equipment	2017	G4	C	3	5	13.993	472.178	3.552	0.029	1.971	1.971	858.879	0.786
Other Lawn & Garden Equipment	2017	G4	C	6	15	7.362	519.618	5.111	0.024	0.318	0.318	858.879	0.413
Other Lawn & Garden Equipment	2017	G4	C	16	25	7.513	549.763	4.832	0.021	0.318	0.318	858.879	0.422
Other Lawn & Garden Equipment	2017	G4	R	3	5	13.993	472.178	3.552	0.029	1.971	1.971	858.879	0.786
Other Lawn & Garden Equipment	2017	G4	R	6	15	7.362	519.618	5.111	0.024	0.318	0.318	858.879	0.413
Other Lawn & Garden Equipment	2017	G4	R	16	25	7.513	549.763	4.832	0.021	0.318	0.318	858.879	0.422
Other Lawn & Garden Equipment	2018	G2	C	0	2	75.613	332.581	2.809	0.035	0.72	0.72	858.879	4.699
Other Lawn & Garden Equipment	2018	G2	C	6	15	74.009	328.268	2.801	0.035	0.751	0.751	858.879	4.6
Other Lawn & Garden Equipment	2018	G2	R	0	2	75.613	332.581	2.809	0.035	0.72	0.72	858.879	4.699
Other Lawn & Garden Equipment	2018	G2	R	6	15	74.009	328.268	2.801	0.035	0.751	0.751	858.879	4.6
Other Lawn & Garden Equipment	2018	G4	C	3	5	13.649	468.588	3.469	0.029	1.972	1.972	858.879	0.767
Other Lawn & Garden Equipment	2018	G4	C	6	15	7.227	518.013	5.055	0.024	0.318	0.318	858.879	0.406
Other Lawn & Garden Equipment	2018	G4	C	16	25	7.386	548.386	4.786	0.021	0.318	0.318	858.879	0.415
Other Lawn & Garden Equipment	2018	G4	R	3	5	13.649	468.588	3.469	0.029	1.972	1.972	858.879	0.767
Other Lawn & Garden Equipment	2018	G4	R	6	15	7.227	518.013	5.055	0.024	0.318	0.318	858.879	0.406
Other Lawn & Garden Equipment	2018	G4	R	16	25	7.386	548.386	4.786	0.021	0.318	0.318	858.879	0.415
Other Lawn & Garden Equipment	2019	G2	C	0	2	73.95	329.492	2.795	0.035	0.682	0.682	858.879	4.596
Other Lawn & Garden Equipment	2019	G2	C	6	15	72.71	326.209	2.788	0.035	0.709	0.709	858.879	4.519
Other Lawn & Garden Equipment	2019	G2	R	0	2	73.95	329.492	2.795	0.035	0.682	0.682	858.879	4.596
Other Lawn & Garden Equipment	2019	G2	R	6	15	72.71	326.209	2.788	0.035	0.709	0.709	858.879	4.519
Other Lawn & Garden Equipment	2019	G4	C	3	5	13.355	465.968	3.384	0.029	1.972	1.972	858.879	0.751
Other Lawn & Garden Equipment	2019	G4	C	6	15	7.111	516.889	5	0.024	0.318	0.318	858.879	0.399
Other Lawn & Garden Equipment	2019	G4	C	16	25	7.273	547.426	4.738	0.021	0.318	0.318	858.879	0.409
Other Lawn & Garden Equipment	2019	G4	R	3	5	13.355	465.968	3.384	0.029	1.972	1.972	858.879	0.751
Other Lawn & Garden Equipment	2019	G4	R	6	15	7.111	516.889	5	0.024	0.318	0.318	858.879	0.399
Other Lawn & Garden Equipment	2019	G4	R	16	25	7.273	547.426	4.738	0.021	0.318	0.318	858.879	0.409
Other Lawn & Garden Equipment	2020	G2	C	0	2	72.499	326.883	2.783	0.035	0.647	0.647	858.88	4.506
Other Lawn & Garden Equipment	2020	G2	C	6	15	71.561	324.439	2.777	0.035	0.67	0.67	858.879	4.447
Other Lawn & Garden Equipment	2020	G2	R	0	2	72.499	326.883	2.783	0.035	0.647	0.647	858.88	4.506
Other Lawn & Garden Equipment	2020	G2	R	6	15	71.561	324.439	2.777	0.035	0.67	0.67	858.879	4.447
Other Lawn & Garden Equipment	2020	G4	C	3	5	13.097	463.764	3.301	0.029	1.972	1.972	858.879	0.736
Other Lawn & Garden Equipment	2020	G4	C	6	15	7.003	515.951	4.947	0.024	0.318	0.318	858.879	0.393
Other Lawn & Garden Equipment	2020	G4	C	16	25	7.166	546.629	4.693	0.021	0.318	0.318	858.879	0.403
Other Lawn & Garden Equipment	2020	G4	R	3	5	13.097	463.764	3.301	0.029	1.972	1.972	858.879	0.736
Other Lawn & Garden Equipment	2020	G4	R	6	15	7.003	515.951	4.947	0.024	0.318	0.318	858.879	0.393
Other Lawn & Garden Equipment	2020	G4	R	16	25	7.166	546.629	4.693	0.021	0.318	0.318	858.879	0.403
Other Lawn & Garden Equipment	2021	G2	C	0	2	71.211	324.651	2.778	0.035	0.618	0.618	858.879	4.426
Other Lawn & Garden Equipment	2021	G2	C	6	15	70.528	322.915	2.773	0.035	0.637	0.637	858.879	4.383
Other Lawn & Garden Equipment	2021	G2	R	0	2	71.211	324.651	2.778	0.035	0.618	0.618	858.879	4.426
Other Lawn & Garden Equipment	2021	G2	R	6	15	70.528	322.915	2.773	0.035	0.637	0.637	858.879	4.383
Other Lawn & Garden Equipment	2021	G4	C	3	5	12.85	462.031	3.218	0.029	1.97	1.97	858.879	0.722
Other Lawn & Garden Equipment	2021	G4	C	6	15	6.895	515.104	4.893	0.024	0.318	0.318	858.879	0.387
Other Lawn & Garden Equipment	2021	G4	C	16	25	7.061	545.911	4.646	0.021	0.318	0.318	858.879	0.397
Other Lawn & Garden Equipment	2021	G4	R	3	5	12.85	462.031	3.218	0.029	1.97	1.97	858.879	0.722
Other Lawn & Garden Equipment	2021	G4	R	6	15	6.895	515.104	4.893	0.024	0.318	0.318	858.879	0.387
Other Lawn & Garden Equipment	2021	G4	R	16	25	7.061	545.911	4.646	0.021	0.318	0.318	858.879	0.397
Other Lawn & Garden Equipment	2022	G2	C	0	2	70.359	322.937	2.777	0.035	0.593	0.593	858.879	4.373
Other Lawn & Garden Equipment	2022	G2	C	6	15	69.865	321.711	2.773	0.035	0.608	0.608	858.879	4.342
Other Lawn & Garden Equipment	2022	G2	R	0	2	70.359	322.937	2.777	0.035	0.593	0.593	858.879	4.373
Other Lawn & Garden Equipment	2022	G2	R	6	15	69.865	321.711	2.773	0.035	0.608	0.608	858.879	4.342
Other Lawn & Garden Equipment	2022	G4	C	3	5	12.663	460.239	3.15	0.029	1.971	1.971	858.879	0.712
Other Lawn & Garden Equipment	2022	G4	C	6	15	6.803	514.379	4.847	0.024	0.318	0.318	858.879	0.382
Other Lawn & Garden Equipment	2022	G4	C	16	25	6.97	545.298	4.608	0.021	0.318	0.318	858.879	0.392
Other Lawn & Garden Equipment	2022	G4	R	3	5	12.663	460.239	3.15	0.029	1.971	1.971	858.879	0.712
Other Lawn & Garden Equipment	2022	G4	R	6	15	6.803	514.379	4.847	0.024	0.318	0.318	858.879	0.382
Other Lawn & Garden Equipment	2022	G4	R	16	25	6.97	545.298	4.608	0.021	0.318	0.318	858.879	0.392
Other Lawn & Garden Equipment	2023	G2	C	0	2	69.52	321.418	2.776	0.035	0.57	0.57	858.879	4.321
Other Lawn & Garden Equipment	2023	G2	C	6	15	69.189	320.632	2.773	0.035	0.583	0.583	858.879	4.3
Other Lawn & Garden Equipment	2023	G2	R	0	2	69.52	321.418	2.776	0.035	0.57	0.57	858.879	4.321
Other Lawn & Garden Equipment	2023	G2	R	6	15	69.189	320.632	2.773	0.035	0.583	0.583	858.879	4.3
Other Lawn & Garden Equipment	2023	G4	C	3	5	12.525	458.636	3.114	0.029	1.972	1.972	858.879	0.704
Other Lawn & Garden Equipment	2023	G4	C	6	15	6.722	513.716	4.806	0.024	0.318	0.318	858.879	0.378
Other Lawn & Garden Equipment	2023	G4	C	16	25	6.889	544.729	4.574	0.021	0.318	0.318	858.879	0.387
Other Lawn & Garden Equipment	2023	G4	R	3	5	12.525	458.636	3.114	0.029	1.972	1.972	858.879	0.704
Other Lawn & Garden Equipment	2023	G4	R	6	15	6.722	513.716	4.806	0.024	0.318	0.318	858.879	0.378
Other Lawn & Garden Equipment	2023	G4	R	16	25	6.889	544.729	4.574	0.021	0.318	0.318	858.879	0.387
Other Lawn & Garden Equipment	2024	G2	C	0	2	68.855	320.179	2.775	0.035	0.551	0.551	858.88	4.279
Other Lawn & Garden Equipment	2024	G2	C	6	15	68.655	319.739	2.773	0.035	0.56	0.56	858.879	4.267
Other Lawn & Garden Equipment	2024	G2	R	0	2	68.855	320.179	2.775	0.035	0.551	0.551	858.88	4.279
Other Lawn & Garden Equipment	2024	G2	R	6	15	68.655	319.739	2.773	0.035	0.56	0.56	858.879	4.267
Other Lawn & Garden Equipment	2024	G4	C	3	5	12.406	457.453	3.088	0.029	1.972	1.972	858.879	0.698
Other Lawn & Garden Equipment	2024	G4	C	6	15	6.664	513.136	4.781	0.024	0.318	0.318	858.879	0.375

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Other Lawn & Garden Equipment	2024	G4	C	16	25	6.834	544.234	4.554	0.021	0.318	0.318	858.879	0.384
Other Lawn & Garden Equipment	2024	G4	R	3	5	12.406	457.453	3.088	0.029	1.972	1.972	858.879	0.698
Other Lawn & Garden Equipment	2024	G4	R	6	15	6.664	513.136	4.781	0.024	0.318	0.318	858.879	0.375
Other Lawn & Garden Equipment	2024	G4	R	16	25	6.834	544.234	4.554	0.021	0.318	0.318	858.879	0.384
Other Lawn & Garden Equipment	2025	G2	C	0	2	68.3	319.298	2.773	0.035	0.535	0.535	858.879	4.245
Other Lawn & Garden Equipment	2025	G2	C	6	15	68.187	319.079	2.772	0.035	0.542	0.542	858.879	4.238
Other Lawn & Garden Equipment	2025	G2	R	0	2	68.3	319.298	2.773	0.035	0.535	0.535	858.879	4.245
Other Lawn & Garden Equipment	2025	G2	R	6	15	68.187	319.079	2.772	0.035	0.542	0.542	858.879	4.238
Other Lawn & Garden Equipment	2025	G4	C	3	5	12.316	456.385	3.066	0.029	1.972	1.972	858.879	0.693
Other Lawn & Garden Equipment	2025	G4	C	6	15	6.622	512.645	4.766	0.024	0.318	0.318	858.879	0.372
Other Lawn & Garden Equipment	2025	G4	C	16	25	6.795	543.816	4.543	0.021	0.318	0.318	858.879	0.382
Other Lawn & Garden Equipment	2025	G4	R	3	5	12.316	456.385	3.066	0.029	1.972	1.972	858.879	0.693
Other Lawn & Garden Equipment	2025	G4	R	6	15	6.622	512.645	4.766	0.024	0.318	0.318	858.879	0.372
Other Lawn & Garden Equipment	2025	G4	R	16	25	6.795	543.816	4.543	0.021	0.318	0.318	858.879	0.382
Other Lawn & Garden Equipment	2030	G2	C	0	2	67.063	317.793	2.764	0.035	0.5	0.5	858.879	4.168
Other Lawn & Garden Equipment	2030	G2	C	6	15	67.061	317.79	2.764	0.035	0.5	0.5	858.879	4.168
Other Lawn & Garden Equipment	2030	G2	R	0	2	67.063	317.793	2.764	0.035	0.5	0.5	858.879	4.168
Other Lawn & Garden Equipment	2030	G2	R	6	15	67.061	317.79	2.764	0.035	0.5	0.5	858.879	4.168
Other Lawn & Garden Equipment	2030	G4	C	3	5	12.077	453.765	2.985	0.029	1.971	1.971	858.879	0.68
Other Lawn & Garden Equipment	2030	G4	C	6	15	6.486	511.085	4.712	0.024	0.318	0.318	858.879	0.365
Other Lawn & Garden Equipment	2030	G4	C	16	25	6.668	542.44	4.502	0.021	0.318	0.318	858.879	0.375
Other Lawn & Garden Equipment	2030	G4	R	3	5	12.077	453.765	2.985	0.029	1.971	1.971	858.879	0.68
Other Lawn & Garden Equipment	2030	G4	R	6	15	6.486	511.085	4.712	0.024	0.318	0.318	858.879	0.365
Other Lawn & Garden Equipment	2030	G4	R	16	25	6.668	542.44	4.502	0.021	0.318	0.318	858.879	0.375
Other Lawn & Garden Equipment	2035	G2	C	0	2	66.983	317.759	2.758	0.035	0.499	0.499	858.879	4.163
Other Lawn & Garden Equipment	2035	G2	C	6	15	66.983	317.759	2.758	0.035	0.499	0.499	858.879	4.163
Other Lawn & Garden Equipment	2035	G2	R	0	2	66.983	317.759	2.758	0.035	0.499	0.499	858.879	4.163
Other Lawn & Garden Equipment	2035	G2	R	6	15	66.983	317.759	2.758	0.035	0.499	0.499	858.879	4.163
Other Lawn & Garden Equipment	2035	G4	C	3	5	12.016	453.055	2.948	0.029	1.971	1.971	858.879	0.677
Other Lawn & Garden Equipment	2035	G4	C	6	15	6.44	510.509	4.686	0.024	0.318	0.318	858.879	0.362
Other Lawn & Garden Equipment	2035	G4	C	16	25	6.62	541.868	4.48	0.021	0.318	0.318	858.879	0.373
Other Lawn & Garden Equipment	2035	G4	R	3	5	12.016	453.055	2.948	0.029	1.971	1.971	858.879	0.677
Other Lawn & Garden Equipment	2035	G4	R	6	15	6.44	510.509	4.686	0.024	0.318	0.318	858.879	0.362
Other Lawn & Garden Equipment	2035	G4	R	16	25	6.62	541.868	4.48	0.021	0.318	0.318	858.879	0.373
Other Lawn & Garden Equipment	2040	G2	C	0	2	66.971	317.759	2.758	0.035	0.499	0.499	858.879	4.162
Other Lawn & Garden Equipment	2040	G2	C	6	15	66.971	317.759	2.758	0.035	0.499	0.499	858.879	4.162
Other Lawn & Garden Equipment	2040	G2	R	0	2	66.971	317.759	2.758	0.035	0.499	0.499	858.879	4.162
Other Lawn & Garden Equipment	2040	G2	R	6	15	66.971	317.759	2.758	0.035	0.499	0.499	858.879	4.162
Other Lawn & Garden Equipment	2040	G4	C	3	5	12.002	452.678	2.942	0.029	1.971	1.971	858.879	0.676
Other Lawn & Garden Equipment	2040	G4	C	6	15	6.428	510.057	4.679	0.024	0.318	0.318	858.879	0.362
Other Lawn & Garden Equipment	2040	G4	C	16	25	6.607	541.388	4.474	0.021	0.318	0.318	858.879	0.372
Other Lawn & Garden Equipment	2040	G4	R	3	5	12.002	452.678	2.942	0.029	1.971	1.971	858.879	0.676
Other Lawn & Garden Equipment	2040	G4	R	6	15	6.428	510.057	4.679	0.024	0.318	0.318	858.879	0.362
Other Lawn & Garden Equipment	2040	G4	R	16	25	6.607	541.388	4.474	0.021	0.318	0.318	858.879	0.372
Rear Engine Riding Mowers	1990	G4	C	6	15	22.909	915.938	8.6	0.359	0.371	0.371	858.879	2.705
Rear Engine Riding Mowers	1990	G4	C	16	25	21.231	912.759	8.476	0.319	0.371	0.371	858.879	2.507
Rear Engine Riding Mowers	1990	G4	R	6	15	22.909	915.938	8.6	0.359	0.371	0.371	858.879	2.705
Rear Engine Riding Mowers	1990	G4	R	16	25	21.231	912.759	8.476	0.319	0.371	0.371	858.879	2.507
Rear Engine Riding Mowers	2000	G4	C	6	15	20.645	670.814	6.649	0.034	0.37	0.37	858.879	1.128
Rear Engine Riding Mowers	2000	G4	C	16	25	18.437	666.497	5.668	0.03	0.37	0.37	858.879	1.007
Rear Engine Riding Mowers	2000	G4	R	6	15	20.645	670.814	6.649	0.034	0.37	0.37	858.879	1.128
Rear Engine Riding Mowers	2000	G4	R	16	25	18.437	666.497	5.668	0.03	0.37	0.37	858.879	1.007
Rear Engine Riding Mowers	2005	G4	C	6	15	13.656	554.614	7.702	0.024	0.37	0.37	858.879	0.766
Rear Engine Riding Mowers	2005	G4	C	16	25	13.498	576.678	6.968	0.021	0.37	0.37	858.879	0.758
Rear Engine Riding Mowers	2005	G4	R	6	15	13.656	554.614	7.702	0.024	0.37	0.37	858.879	0.766
Rear Engine Riding Mowers	2005	G4	R	16	25	13.498	576.678	6.968	0.021	0.37	0.37	858.879	0.758
Rear Engine Riding Mowers	2010	G4	C	6	15	9.521	522.282	6.198	0.024	0.37	0.37	858.879	0.534
Rear Engine Riding Mowers	2010	G4	C	16	25	9.505	550.919	5.959	0.021	0.37	0.37	858.879	0.534
Rear Engine Riding Mowers	2010	G4	R	6	15	9.521	522.282	6.198	0.024	0.37	0.37	858.879	0.534
Rear Engine Riding Mowers	2010	G4	R	16	25	9.505	550.919	5.959	0.021	0.37	0.37	858.879	0.534
Rear Engine Riding Mowers	2011	G4	C	6	15	9.168	519.756	6.099	0.024	0.37	0.37	858.879	0.515
Rear Engine Riding Mowers	2011	G4	C	16	25	9.185	549.03	5.885	0.021	0.37	0.37	858.879	0.516
Rear Engine Riding Mowers	2011	G4	R	6	15	9.168	519.756	6.099	0.024	0.37	0.37	858.879	0.515
Rear Engine Riding Mowers	2011	G4	R	16	25	9.185	549.03	5.885	0.021	0.37	0.37	858.879	0.516
Rear Engine Riding Mowers	2012	G4	C	6	15	8.85	517.872	5.992	0.024	0.37	0.37	858.879	0.497
Rear Engine Riding Mowers	2012	G4	C	16	25	8.887	547.664	5.805	0.021	0.37	0.37	858.879	0.499
Rear Engine Riding Mowers	2012	G4	R	6	15	8.85	517.872	5.992	0.024	0.37	0.37	858.879	0.497
Rear Engine Riding Mowers	2012	G4	R	16	25	8.887	547.664	5.805	0.021	0.37	0.37	858.879	0.499
Rear Engine Riding Mowers	2013	G4	C	6	15	8.562	516.231	5.892	0.024	0.37	0.37	858.879	0.481
Rear Engine Riding Mowers	2013	G4	C	16	25	8.612	546.488	5.732	0.021	0.37	0.37	858.879	0.484
Rear Engine Riding Mowers	2013	G4	R	6	15	8.562	516.231	5.892	0.024	0.37	0.37	858.879	0.481
Rear Engine Riding Mowers	2013	G4	R	16	25	8.612	546.488	5.732	0.021	0.37	0.37	858.879	0.484
Rear Engine Riding Mowers	2014	G4	C	6	15	8.303	514.847	5.793	0.024	0.37	0.37	858.879	0.466
Rear Engine Riding Mowers	2014	G4	C	16	25	8.36	545.483	5.66	0.021	0.37	0.37	858.879	0.469
Rear Engine Riding Mowers	2014	G4	R	6	15	8.303	514.847	5.793	0.024	0.37	0.37	858.879	0.466
Rear Engine Riding Mowers	2014	G4	R	16	25	8.36	545.483	5.66	0.021	0.37	0.37	858.879	0.469

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Rear Engine Riding Mowers	2015	G4	C	6	15	8.07	513.744	5.696	0.024	0.37	0.37	858.879	0.453
Rear Engine Riding Mowers	2015	G4	C	16	25	8.128	544.687	5.589	0.021	0.37	0.37	858.879	0.456
Rear Engine Riding Mowers	2015	G4	R	6	15	8.07	513.744	5.696	0.024	0.37	0.37	858.879	0.453
Rear Engine Riding Mowers	2015	G4	R	16	25	8.128	544.687	5.589	0.021	0.37	0.37	858.879	0.456
Rear Engine Riding Mowers	2016	G4	C	6	15	7.873	512.921	5.604	0.024	0.37	0.37	858.879	0.442
Rear Engine Riding Mowers	2016	G4	C	16	25	7.924	544.091	5.523	0.021	0.37	0.37	858.879	0.445
Rear Engine Riding Mowers	2016	G4	R	6	15	7.873	512.921	5.604	0.024	0.37	0.37	858.879	0.442
Rear Engine Riding Mowers	2016	G4	R	16	25	7.924	544.091	5.523	0.021	0.37	0.37	858.879	0.445
Rear Engine Riding Mowers	2017	G4	C	6	15	7.773	512.361	5.568	0.024	0.37	0.37	858.88	0.437
Rear Engine Riding Mowers	2017	G4	C	16	25	7.826	543.681	5.499	0.021	0.37	0.37	858.879	0.44
Rear Engine Riding Mowers	2017	G4	R	6	15	7.773	512.361	5.568	0.024	0.37	0.37	858.88	0.437
Rear Engine Riding Mowers	2017	G4	R	16	25	7.826	543.681	5.499	0.021	0.37	0.37	858.879	0.44
Rear Engine Riding Mowers	2018	G4	C	6	15	7.704	511.993	5.54	0.024	0.37	0.37	858.879	0.433
Rear Engine Riding Mowers	2018	G4	C	16	25	7.756	543.404	5.48	0.021	0.37	0.37	858.879	0.436
Rear Engine Riding Mowers	2018	G4	R	6	15	7.704	511.993	5.54	0.024	0.37	0.37	858.879	0.433
Rear Engine Riding Mowers	2018	G4	R	16	25	7.756	543.404	5.48	0.021	0.37	0.37	858.879	0.436
Rear Engine Riding Mowers	2019	G4	C	6	15	7.66	511.821	5.514	0.024	0.37	0.37	858.879	0.43
Rear Engine Riding Mowers	2019	G4	C	16	25	7.707	543.26	5.463	0.021	0.37	0.37	858.88	0.433
Rear Engine Riding Mowers	2019	G4	R	6	15	7.66	511.821	5.514	0.024	0.37	0.37	858.879	0.43
Rear Engine Riding Mowers	2019	G4	R	16	25	7.707	543.26	5.463	0.021	0.37	0.37	858.88	0.433
Rear Engine Riding Mowers	2020	G4	C	6	15	7.631	511.749	5.492	0.024	0.37	0.37	858.879	0.429
Rear Engine Riding Mowers	2020	G4	C	16	25	7.672	543.183	5.446	0.021	0.37	0.37	858.879	0.431
Rear Engine Riding Mowers	2020	G4	R	6	15	7.631	511.749	5.492	0.024	0.37	0.37	858.879	0.429
Rear Engine Riding Mowers	2020	G4	R	16	25	7.672	543.183	5.446	0.021	0.37	0.37	858.879	0.431
Rear Engine Riding Mowers	2021	G4	C	6	15	7.604	511.699	5.471	0.024	0.37	0.37	858.88	0.427
Rear Engine Riding Mowers	2021	G4	C	16	25	7.641	543.131	5.43	0.021	0.37	0.37	858.879	0.429
Rear Engine Riding Mowers	2021	G4	R	6	15	7.604	511.699	5.471	0.024	0.37	0.37	858.88	0.427
Rear Engine Riding Mowers	2021	G4	R	16	25	7.641	543.131	5.43	0.021	0.37	0.37	858.879	0.429
Rear Engine Riding Mowers	2022	G4	C	6	15	7.589	511.628	5.459	0.024	0.37	0.37	858.88	0.426
Rear Engine Riding Mowers	2022	G4	C	16	25	7.622	543.055	5.422	0.021	0.37	0.37	858.879	0.428
Rear Engine Riding Mowers	2022	G4	R	6	15	7.589	511.628	5.459	0.024	0.37	0.37	858.88	0.426
Rear Engine Riding Mowers	2022	G4	R	16	25	7.622	543.055	5.422	0.021	0.37	0.37	858.879	0.428
Rear Engine Riding Mowers	2023	G4	C	6	15	7.579	511.555	5.452	0.024	0.37	0.37	858.879	0.426
Rear Engine Riding Mowers	2023	G4	C	16	25	7.609	542.977	5.417	0.021	0.37	0.37	858.879	0.428
Rear Engine Riding Mowers	2023	G4	R	6	15	7.579	511.555	5.452	0.024	0.37	0.37	858.879	0.426
Rear Engine Riding Mowers	2023	G4	R	16	25	7.609	542.977	5.417	0.021	0.37	0.37	858.879	0.428
Rear Engine Riding Mowers	2024	G4	C	6	15	7.573	511.479	5.447	0.024	0.37	0.37	858.879	0.426
Rear Engine Riding Mowers	2024	G4	C	16	25	7.602	542.897	5.414	0.021	0.37	0.37	858.879	0.427
Rear Engine Riding Mowers	2024	G4	R	6	15	7.573	511.479	5.447	0.024	0.37	0.37	858.879	0.426
Rear Engine Riding Mowers	2024	G4	R	16	25	7.602	542.897	5.414	0.021	0.37	0.37	858.879	0.427
Rear Engine Riding Mowers	2025	G4	C	6	15	7.571	511.402	5.445	0.024	0.37	0.37	858.879	0.426
Rear Engine Riding Mowers	2025	G4	C	16	25	7.599	542.815	5.413	0.021	0.37	0.37	858.879	0.427
Rear Engine Riding Mowers	2025	G4	R	6	15	7.571	511.402	5.445	0.024	0.37	0.37	858.879	0.426
Rear Engine Riding Mowers	2025	G4	R	16	25	7.599	542.815	5.413	0.021	0.37	0.37	858.879	0.427
Rear Engine Riding Mowers	2030	G4	C	6	15	7.565	510.995	5.443	0.024	0.37	0.37	858.879	0.426
Rear Engine Riding Mowers	2030	G4	C	16	25	7.593	542.384	5.411	0.021	0.37	0.37	858.879	0.427
Rear Engine Riding Mowers	2030	G4	R	6	15	7.565	510.995	5.443	0.024	0.37	0.37	858.879	0.426
Rear Engine Riding Mowers	2030	G4	R	16	25	7.593	542.384	5.411	0.021	0.37	0.37	858.879	0.427
Rear Engine Riding Mowers	2035	G4	C	6	15	7.56	510.58	5.441	0.024	0.37	0.37	858.879	0.426
Rear Engine Riding Mowers	2035	G4	C	16	25	7.588	541.943	5.409	0.021	0.37	0.37	858.879	0.427
Rear Engine Riding Mowers	2035	G4	R	6	15	7.56	510.58	5.441	0.024	0.37	0.37	858.879	0.426
Rear Engine Riding Mowers	2035	G4	R	16	25	7.588	541.943	5.409	0.021	0.37	0.37	858.879	0.427
Rear Engine Riding Mowers	2040	G4	C	6	15	7.554	510.128	5.438	0.024	0.37	0.37	858.879	0.425
Rear Engine Riding Mowers	2040	G4	C	16	25	7.582	541.463	5.406	0.021	0.37	0.37	858.879	0.427
Rear Engine Riding Mowers	2040	G4	R	6	15	7.554	510.128	5.438	0.024	0.37	0.37	858.879	0.425
Rear Engine Riding Mowers	2040	G4	R	16	25	7.582	541.463	5.406	0.021	0.37	0.37	858.879	0.427
Shredders	1990	G2	C	6	15	383.517	971.999	0.625	0.518	7.199	7.199	858.879	32.707
Shredders	1990	G2	R	6	15	383.517	971.999	0.625	0.518	7.199	7.199	858.879	32.707
Shredders	1990	G4	C	3	5	73.086	1281.602	4.878	0.434	2.254	2.254	858.879	8.633
Shredders	1990	G4	R	3	5	73.086	1281.602	4.878	0.434	2.254	2.254	858.879	8.633
Shredders	2000	G2	C	6	15	140.016	646.117	4.113	0.049	7.199	7.199	858.879	8.474
Shredders	2000	G2	R	6	15	140.016	646.117	4.113	0.049	7.199	7.199	858.879	8.474
Shredders	2000	G4	C	3	5	42.745	785.17	5.669	0.041	5.16	5.16	858.879	2.336
Shredders	2000	G4	R	3	5	42.745	785.17	5.669	0.041	5.16	5.16	858.879	2.336
Shredders	2005	G2	C	6	15	87.504	541.643	5.415	0.035	7.199	7.199	858.879	5.438
Shredders	2005	G2	R	6	15	87.504	541.643	5.415	0.035	7.199	7.199	858.879	5.438
Shredders	2005	G4	C	3	5	26.261	563.118	7.001	0.029	1.606	1.606	858.879	1.474
Shredders	2005	G4	R	3	5	26.261	563.118	7.001	0.029	1.606	1.606	858.879	1.474
Shredders	2010	G2	C	6	15	44.762	499.088	6.097	0.035	7.199	7.199	858.879	2.782
Shredders	2010	G2	R	6	15	44.762	499.088	6.097	0.035	7.199	7.199	858.879	2.782
Shredders	2010	G4	C	3	5	21.525	509.857	7.252	0.029	1.289	1.289	858.879	1.209
Shredders	2010	G4	R	3	5	21.525	509.857	7.252	0.029	1.289	1.289	858.879	1.209
Shredders	2011	G2	C	6	15	36.618	490.701	6.226	0.035	7.199	7.199	858.879	2.275
Shredders	2011	G2	R	6	15	36.618	490.701	6.226	0.035	7.199	7.199	858.879	2.275
Shredders	2011	G4	C	3	5	20.596	499.294	7.299	0.029	1.218	1.218	858.879	1.157
Shredders	2011	G4	R	3	5	20.596	499.294	7.299	0.029	1.218	1.218	858.879	1.157

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Shredders	2012	G2	C	6	15	29.387	482.281	6.335	0.035	7.199	7.199	858.879	1.826
Shredders	2012	G2	R	6	15	29.387	482.281	6.335	0.035	7.199	7.199	858.879	1.826
Shredders	2012	G4	C	3	5	19.754	488.364	7.34	0.029	1.143	1.143	858.879	1.11
Shredders	2012	G4	R	3	5	19.754	488.364	7.34	0.029	1.143	1.143	858.879	1.11
Shredders	2013	G2	C	6	15	25.29	477.106	6.4	0.035	7.199	7.199	858.879	1.571
Shredders	2013	G2	R	6	15	25.29	477.106	6.4	0.035	7.199	7.199	858.879	1.571
Shredders	2013	G4	C	3	5	19.236	481.12	7.372	0.029	1.031	1.031	858.879	1.081
Shredders	2013	G4	R	3	5	19.236	481.12	7.372	0.029	1.031	1.031	858.879	1.081
Shredders	2014	G2	C	6	15	22.674	473.079	6.444	0.035	7.199	7.199	858.879	1.409
Shredders	2014	G2	R	6	15	22.674	473.079	6.444	0.035	7.199	7.199	858.879	1.409
Shredders	2014	G4	C	3	5	18.878	474.915	7.402	0.029	0.904	0.904	858.879	1.061
Shredders	2014	G4	R	3	5	18.878	474.915	7.402	0.029	0.904	0.904	858.879	1.061
Shredders	2015	G2	C	6	15	20.409	469.199	6.483	0.035	7.199	7.199	858.879	1.268
Shredders	2015	G2	R	6	15	20.409	469.199	6.483	0.035	7.199	7.199	858.879	1.268
Shredders	2015	G4	C	3	5	18.556	468.937	7.429	0.029	0.778	0.778	858.879	1.043
Shredders	2015	G4	R	3	5	18.556	468.937	7.429	0.029	0.778	0.778	858.879	1.043
Shredders	2016	G2	C	6	15	18.435	465.619	6.518	0.035	7.199	7.199	858.879	1.145
Shredders	2016	G2	R	6	15	18.435	465.619	6.518	0.035	7.199	7.199	858.879	1.145
Shredders	2016	G4	C	3	5	18.269	463.456	7.454	0.029	0.66	0.66	858.879	1.027
Shredders	2016	G4	R	3	5	18.269	463.456	7.454	0.029	0.66	0.66	858.879	1.027
Shredders	2017	G2	C	6	15	16.635	462.285	6.549	0.035	7.199	7.199	858.879	1.033
Shredders	2017	G2	R	6	15	16.635	462.285	6.549	0.035	7.199	7.199	858.879	1.033
Shredders	2017	G4	C	3	5	18.008	458.475	7.477	0.029	0.557	0.557	858.879	1.012
Shredders	2017	G4	R	3	5	18.008	458.475	7.477	0.029	0.557	0.557	858.879	1.012
Shredders	2018	G2	C	6	15	15.12	459.444	6.576	0.035	7.199	7.199	858.879	0.939
Shredders	2018	G2	R	6	15	15.12	459.444	6.576	0.035	7.199	7.199	858.879	0.939
Shredders	2018	G4	C	3	5	17.808	455.299	7.491	0.029	0.504	0.504	858.879	1.001
Shredders	2018	G4	R	3	5	17.808	455.299	7.491	0.029	0.504	0.504	858.879	1.001
Shredders	2019	G2	C	6	15	13.778	457.456	6.599	0.035	7.199	7.199	858.879	0.856
Shredders	2019	G2	R	6	15	13.778	457.456	6.599	0.035	7.199	7.199	858.879	0.856
Shredders	2019	G4	C	3	5	17.638	452.882	7.502	0.029	0.473	0.473	858.879	0.992
Shredders	2019	G4	R	3	5	17.638	452.882	7.502	0.029	0.473	0.473	858.879	0.992
Shredders	2020	G2	C	6	15	12.601	455.916	6.618	0.035	7.199	7.199	858.879	0.783
Shredders	2020	G2	R	6	15	12.601	455.916	6.618	0.035	7.199	7.199	858.879	0.783
Shredders	2020	G4	C	3	5	17.489	450.769	7.511	0.029	0.447	0.447	858.879	0.983
Shredders	2020	G4	R	3	5	17.489	450.769	7.511	0.029	0.447	0.447	858.879	0.983
Shredders	2021	G2	C	6	15	11.563	454.545	6.635	0.035	7.199	7.199	858.879	0.718
Shredders	2021	G2	R	6	15	11.563	454.545	6.635	0.035	7.199	7.199	858.879	0.718
Shredders	2021	G4	C	3	5	17.348	449.038	7.516	0.029	0.422	0.422	858.879	0.975
Shredders	2021	G4	R	3	5	17.348	449.038	7.516	0.029	0.422	0.422	858.879	0.975
Shredders	2022	G2	C	6	15	10.763	453.447	6.649	0.035	7.199	7.199	858.879	0.668
Shredders	2022	G2	R	6	15	10.763	453.447	6.649	0.035	7.199	7.199	858.879	0.668
Shredders	2022	G4	C	3	5	17.25	447.183	7.527	0.029	0.399	0.399	858.879	0.97
Shredders	2022	G4	R	3	5	17.25	447.183	7.527	0.029	0.399	0.399	858.879	0.97
Shredders	2023	G2	C	6	15	10.088	452.461	6.66	0.035	7.199	7.199	858.879	0.627
Shredders	2023	G2	R	6	15	10.088	452.461	6.66	0.035	7.199	7.199	858.879	0.627
Shredders	2023	G4	C	3	5	17.154	445.909	7.53	0.029	0.379	0.379	858.879	0.965
Shredders	2023	G4	R	3	5	17.154	445.909	7.53	0.029	0.379	0.379	858.879	0.965
Shredders	2024	G2	C	6	15	9.575	451.691	6.669	0.035	7.199	7.199	858.879	0.595
Shredders	2024	G2	R	6	15	9.575	451.691	6.669	0.035	7.199	7.199	858.879	0.595
Shredders	2024	G4	C	3	5	17.084	444.654	7.537	0.029	0.36	0.36	858.879	0.961
Shredders	2024	G4	R	3	5	17.084	444.654	7.537	0.029	0.36	0.36	858.879	0.961
Shredders	2025	G2	C	6	15	9.157	451.013	6.676	0.035	7.2	7.2	858.879	0.569
Shredders	2025	G2	R	6	15	9.157	451.013	6.676	0.035	7.2	7.2	858.879	0.569
Shredders	2025	G4	C	3	5	17.02	443.666	7.54	0.029	0.343	0.343	858.879	0.957
Shredders	2025	G4	R	3	5	17.02	443.666	7.54	0.029	0.343	0.343	858.879	0.957
Shredders	2030	G2	C	6	15	8.653	449.536	6.686	0.035	7.199	7.199	858.879	0.537
Shredders	2030	G2	R	6	15	8.653	449.536	6.686	0.035	7.199	7.199	858.879	0.537
Shredders	2030	G4	C	3	5	16.911	441.143	7.547	0.029	0.287	0.287	858.879	0.952
Shredders	2030	G4	R	3	5	16.911	441.143	7.547	0.029	0.287	0.287	858.879	0.952
Shredders	2035	G2	C	6	15	8.648	449.319	6.686	0.035	7.199	7.199	858.879	0.537
Shredders	2035	G2	R	6	15	8.648	449.319	6.686	0.035	7.199	7.199	858.879	0.537
Shredders	2035	G4	C	3	5	16.893	440.552	7.546	0.029	0.279	0.279	858.879	0.952
Shredders	2035	G4	R	3	5	16.893	440.552	7.546	0.029	0.279	0.279	858.879	0.952
Shredders	2040	G2	C	6	15	8.648	449.319	6.686	0.035	7.199	7.199	858.879	0.537
Shredders	2040	G2	R	6	15	8.648	449.319	6.686	0.035	7.199	7.199	858.879	0.537
Shredders	2040	G4	C	3	5	16.881	440.169	7.543	0.029	0.279	0.279	858.879	0.952
Shredders	2040	G4	R	3	5	16.881	440.169	7.543	0.029	0.279	0.279	858.879	0.952
Snowblowers	1990	G2	C	6	15	294.22	1043.999	1.937	0.518	7.239	7.239	858.879	25.092
Snowblowers	1990	G2	R	6	15	294.22	1043.999	1.937	0.518	7.239	7.239	858.879	25.092
Snowblowers	1990	G2	R	16	25	383.517	971.999	0.661	0.518	7.199	7.199	858.879	32.707
Snowblowers	1990	G2	R	16	25	383.517	971.999	0.661	0.518	7.199	7.199	858.879	32.707
Snowblowers	1990	G4	C	3	5	63.466	1319.693	5.335	0.434	1.646	1.646	858.879	6.925
Snowblowers	1990	G4	C	6	15	17.288	998.584	8.833	0.359	0.292	0.292	858.879	1.886
Snowblowers	1990	G4	C	16	25	17.033	998.089	8.814	0.319	0.292	0.292	858.879	1.858
Snowblowers	1990	G4	R	3	5	63.466	1319.693	5.335	0.434	1.646	1.646	858.879	6.925

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Snowblowers	1990	G4	R	6	15	17.288	998.584	8.833	0.359	0.292	0.292	858.879	1.886
Snowblowers	1990	G4	R	16	25	17.033	998.089	8.814	0.319	0.292	0.292	858.879	1.858
Snowblowers	2000	G2	C	6	15	166.997	509.415	3.015	0.051	4.285	4.285	858.879	10.107
Snowblowers	2000	G2	C	16	25	183.257	440.038	2.719	0.051	4.275	4.275	858.879	11.092
Snowblowers	2000	G2	R	6	15	166.997	509.415	3.015	0.051	4.285	4.285	858.879	10.107
Snowblowers	2000	G2	R	16	25	183.257	440.038	2.719	0.051	4.275	4.275	858.879	11.092
Snowblowers	2000	G4	C	3	5	31.589	850.441	5.693	0.043	1.639	1.639	858.879	1.597
Snowblowers	2000	G4	C	6	15	13.541	715.233	7.256	0.035	0.292	0.292	858.88	0.684
Snowblowers	2000	G4	C	16	25	13.002	730.145	6.298	0.031	0.292	0.292	858.879	0.657
Snowblowers	2000	G4	R	3	5	31.589	850.441	5.693	0.043	1.639	1.639	858.879	1.597
Snowblowers	2000	G4	R	6	15	13.541	715.233	7.256	0.035	0.292	0.292	858.88	0.684
Snowblowers	2000	G4	R	16	25	13.002	730.145	6.298	0.031	0.292	0.292	858.879	0.657
Snowblowers	2005	G2	C	6	15	120.913	437.03	2.781	0.035	2.897	2.897	858.879	7.515
Snowblowers	2005	G2	C	16	25	127.158	389.652	2.603	0.035	2.89	2.89	858.879	7.903
Snowblowers	2005	G2	R	6	15	120.913	437.03	2.781	0.035	2.897	2.897	858.879	7.515
Snowblowers	2005	G2	R	16	25	127.158	389.652	2.603	0.035	2.89	2.89	858.879	7.903
Snowblowers	2005	G4	C	3	5	23.699	681.336	6.453	0.029	1.645	1.645	858.879	1.231
Snowblowers	2005	G4	C	6	15	11.29	624.579	7.317	0.024	0.292	0.292	858.879	0.587
Snowblowers	2005	G4	C	16	25	11.494	650.913	6.689	0.021	0.292	0.292	858.879	0.597
Snowblowers	2005	G4	R	3	5	23.699	681.336	6.453	0.029	1.645	1.645	858.879	1.231
Snowblowers	2005	G4	R	6	15	11.29	624.579	7.317	0.024	0.292	0.292	858.879	0.587
Snowblowers	2005	G4	R	16	25	11.494	650.913	6.689	0.021	0.292	0.292	858.879	0.597
Snowblowers	2010	G2	C	6	15	87.804	375.893	2.851	0.035	1.934	1.934	858.879	5.457
Snowblowers	2010	G2	C	16	25	89.649	344.324	2.79	0.035	1.932	1.932	858.879	5.572
Snowblowers	2010	G2	R	6	15	87.804	375.893	2.851	0.035	1.934	1.934	858.879	5.457
Snowblowers	2010	G2	R	16	25	89.649	344.324	2.79	0.035	1.932	1.932	858.879	5.572
Snowblowers	2010	G4	C	3	5	15.722	625.42	3.815	0.029	1.647	1.647	858.879	0.818
Snowblowers	2010	G4	C	6	15	8.524	596.884	5.71	0.024	0.292	0.292	858.879	0.443
Snowblowers	2010	G4	C	16	25	8.65	627.18	5.206	0.021	0.292	0.292	858.879	0.45
Snowblowers	2010	G4	R	3	5	15.722	625.42	3.815	0.029	1.647	1.647	858.879	0.818
Snowblowers	2010	G4	R	6	15	8.524	596.884	5.71	0.024	0.292	0.292	858.879	0.443
Snowblowers	2010	G4	R	16	25	8.65	627.18	5.206	0.021	0.292	0.292	858.879	0.45
Snowblowers	2011	G2	C	6	15	81.769	367.186	2.88	0.035	1.73	1.73	858.879	5.082
Snowblowers	2011	G2	C	16	25	83.443	339.783	2.832	0.035	1.728	1.728	858.879	5.186
Snowblowers	2011	G2	R	6	15	81.769	367.186	2.88	0.035	1.73	1.73	858.879	5.082
Snowblowers	2011	G2	R	16	25	83.443	339.783	2.832	0.035	1.728	1.728	858.879	5.186
Snowblowers	2011	G4	C	3	5	14.985	618.315	3.717	0.029	1.647	1.647	858.879	0.78
Snowblowers	2011	G4	C	6	15	8.316	593.895	5.631	0.024	0.292	0.292	858.88	0.433
Snowblowers	2011	G4	C	16	25	8.459	624.839	5.138	0.021	0.292	0.292	858.879	0.44
Snowblowers	2011	G4	R	3	5	14.985	618.315	3.717	0.029	1.647	1.647	858.879	0.78
Snowblowers	2011	G4	R	6	15	8.316	593.895	5.631	0.024	0.292	0.292	858.88	0.433
Snowblowers	2011	G4	R	16	25	8.459	624.839	5.138	0.021	0.292	0.292	858.879	0.44
Snowblowers	2012	G2	C	6	15	76.002	359.672	2.906	0.035	1.532	1.532	858.879	4.723
Snowblowers	2012	G2	C	16	25	77.837	336.967	2.865	0.035	1.531	1.531	858.88	4.837
Snowblowers	2012	G2	R	6	15	76.002	359.672	2.906	0.035	1.532	1.532	858.879	4.723
Snowblowers	2012	G2	R	16	25	77.837	336.967	2.865	0.035	1.531	1.531	858.88	4.837
Snowblowers	2012	G4	C	3	5	14.444	611.581	3.618	0.029	1.647	1.647	858.879	0.752
Snowblowers	2012	G4	C	6	15	8.128	590.571	5.557	0.024	0.292	0.292	858.879	0.423
Snowblowers	2012	G4	C	16	25	8.29	622.001	5.081	0.021	0.292	0.292	858.879	0.431
Snowblowers	2012	G4	R	3	5	14.444	611.581	3.618	0.029	1.647	1.647	858.879	0.752
Snowblowers	2012	G4	R	6	15	8.128	590.571	5.557	0.024	0.292	0.292	858.879	0.423
Snowblowers	2012	G4	R	16	25	8.29	622.001	5.081	0.021	0.292	0.292	858.879	0.431
Snowblowers	2013	G2	C	6	15	70.36	352.374	2.931	0.035	1.341	1.341	858.879	4.373
Snowblowers	2013	G2	C	16	25	72.339	334.375	2.895	0.035	1.34	1.34	858.879	4.496
Snowblowers	2013	G2	R	6	15	70.36	352.374	2.931	0.035	1.341	1.341	858.879	4.373
Snowblowers	2013	G2	R	16	25	72.339	334.375	2.895	0.035	1.34	1.34	858.879	4.496
Snowblowers	2013	G4	C	3	5	13.944	604.538	3.519	0.029	1.647	1.647	858.879	0.726
Snowblowers	2013	G4	C	6	15	7.943	586.794	5.483	0.024	0.292	0.292	858.879	0.413
Snowblowers	2013	G4	C	16	25	8.124	618.655	5.026	0.021	0.292	0.292	858.879	0.423
Snowblowers	2013	G4	R	3	5	13.944	604.538	3.519	0.029	1.647	1.647	858.879	0.726
Snowblowers	2013	G4	R	6	15	7.943	586.794	5.483	0.024	0.292	0.292	858.879	0.413
Snowblowers	2013	G4	R	16	25	8.124	618.655	5.026	0.021	0.292	0.292	858.879	0.423
Snowblowers	2014	G2	C	6	15	65.026	345.508	2.952	0.035	1.16	1.16	858.879	4.041
Snowblowers	2014	G2	C	16	25	67.062	331.911	2.922	0.035	1.159	1.159	858.879	4.168
Snowblowers	2014	G2	R	6	15	65.026	345.508	2.952	0.035	1.16	1.16	858.879	4.041
Snowblowers	2014	G2	R	16	25	67.062	331.911	2.922	0.035	1.159	1.159	858.879	4.168
Snowblowers	2014	G4	C	3	5	13.463	597.617	3.42	0.029	1.647	1.647	858.879	0.701
Snowblowers	2014	G4	C	6	15	7.759	583.06	5.411	0.024	0.292	0.292	858.879	0.404
Snowblowers	2014	G4	C	16	25	7.959	615.34	4.972	0.021	0.292	0.292	858.879	0.414
Snowblowers	2014	G4	R	3	5	13.463	597.617	3.42	0.029	1.647	1.647	858.879	0.701
Snowblowers	2014	G4	R	6	15	7.759	583.06	5.411	0.024	0.292	0.292	858.879	0.404
Snowblowers	2014	G4	R	16	25	7.959	615.34	4.972	0.021	0.292	0.292	858.879	0.414
Snowblowers	2015	G2	C	6	15	60.176	339.189	2.969	0.035	0.997	0.997	858.879	3.74
Snowblowers	2015	G2	C	16	25	62.152	329.468	2.944	0.035	0.996	0.996	858.879	3.863
Snowblowers	2015	G2	R	6	15	60.176	339.189	2.969	0.035	0.997	0.997	858.879	3.74
Snowblowers	2015	G2	R	16	25	62.152	329.468	2.944	0.035	0.996	0.996	858.879	3.863

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Snowblowers	2015	G4	C	3	5	12.989	590.776	3.324	0.029	1.647	1.647	858.879	0.676
Snowblowers	2015	G4	C	6	15	7.579	579.355	5.341	0.024	0.292	0.292	858.879	0.395
Snowblowers	2015	G4	C	16	25	7.797	612.045	4.92	0.021	0.292	0.292	858.879	0.406
Snowblowers	2015	G4	R	3	5	12.989	590.776	3.324	0.029	1.647	1.647	858.879	0.676
Snowblowers	2015	G4	R	6	15	7.579	579.355	5.341	0.024	0.292	0.292	858.879	0.395
Snowblowers	2015	G4	R	16	25	7.797	612.045	4.92	0.021	0.292	0.292	858.879	0.406
Snowblowers	2016	G2	C	6	15	57.315	335.352	2.964	0.035	0.906	0.906	858.879	3.562
Snowblowers	2016	G2	C	16	25	59.144	327.612	2.943	0.035	0.905	0.905	858.879	3.676
Snowblowers	2016	G2	R	6	15	57.315	335.352	2.964	0.035	0.906	0.906	858.879	3.562
Snowblowers	2016	G2	R	16	25	59.144	327.612	2.943	0.035	0.905	0.905	858.879	3.676
Snowblowers	2016	G4	C	3	5	12.555	584.605	3.23	0.029	1.647	1.647	858.879	0.654
Snowblowers	2016	G4	C	6	15	7.408	576.051	5.274	0.024	0.292	0.292	858.879	0.386
Snowblowers	2016	G4	C	16	25	7.644	609.121	4.871	0.021	0.292	0.292	858.879	0.398
Snowblowers	2016	G4	R	3	5	12.555	584.605	3.23	0.029	1.647	1.647	858.879	0.654
Snowblowers	2016	G4	R	6	15	7.408	576.051	5.274	0.024	0.292	0.292	858.879	0.386
Snowblowers	2016	G4	R	16	25	7.644	609.121	4.871	0.021	0.292	0.292	858.879	0.398
Snowblowers	2017	G2	C	6	15	55.381	332.569	2.953	0.035	0.847	0.847	858.879	3.442
Snowblowers	2017	G2	C	16	25	57.035	325.993	2.936	0.035	0.847	0.847	858.879	3.545
Snowblowers	2017	G2	R	6	15	55.381	332.569	2.953	0.035	0.847	0.847	858.879	3.442
Snowblowers	2017	G2	R	16	25	57.035	325.993	2.936	0.035	0.847	0.847	858.879	3.545
Snowblowers	2017	G4	C	3	5	12.174	579.337	3.144	0.029	1.647	1.647	858.879	0.634
Snowblowers	2017	G4	C	6	15	7.258	573.275	5.213	0.024	0.292	0.292	858.879	0.378
Snowblowers	2017	G4	C	16	25	7.509	606.665	4.824	0.021	0.292	0.292	858.879	0.391
Snowblowers	2017	G4	R	3	5	12.174	579.337	3.144	0.029	1.647	1.647	858.879	0.634
Snowblowers	2017	G4	R	6	15	7.258	573.275	5.213	0.024	0.292	0.292	858.879	0.378
Snowblowers	2017	G4	R	16	25	7.509	606.665	4.824	0.021	0.292	0.292	858.879	0.391
Snowblowers	2018	G2	C	6	15	53.698	330.087	2.941	0.035	0.796	0.796	858.879	3.337
Snowblowers	2018	G2	C	16	25	55.166	324.485	2.928	0.035	0.796	0.796	858.879	3.428
Snowblowers	2018	G2	R	6	15	53.698	330.087	2.941	0.035	0.796	0.796	858.879	3.337
Snowblowers	2018	G2	R	16	25	55.166	324.485	2.928	0.035	0.796	0.796	858.879	3.428
Snowblowers	2018	G4	C	3	5	11.857	575.798	3.058	0.029	1.647	1.647	858.879	0.618
Snowblowers	2018	G4	C	6	15	7.134	571.462	5.154	0.024	0.292	0.292	858.879	0.372
Snowblowers	2018	G4	C	16	25	7.391	605.064	4.774	0.021	0.292	0.292	858.879	0.385
Snowblowers	2018	G4	R	3	5	11.857	575.798	3.058	0.029	1.647	1.647	858.879	0.618
Snowblowers	2018	G4	R	6	15	7.134	571.462	5.154	0.024	0.292	0.292	858.879	0.372
Snowblowers	2018	G4	R	16	25	7.391	605.064	4.774	0.021	0.292	0.292	858.879	0.385
Snowblowers	2019	G2	C	6	15	52.176	327.869	2.93	0.035	0.75	0.75	858.879	3.242
Snowblowers	2019	G2	C	16	25	53.46	323.141	2.92	0.035	0.75	0.75	858.879	3.322
Snowblowers	2019	G2	R	6	15	52.176	327.869	2.93	0.035	0.75	0.75	858.879	3.242
Snowblowers	2019	G2	R	16	25	53.46	323.141	2.92	0.035	0.75	0.75	858.879	3.322
Snowblowers	2019	G4	C	3	5	11.577	573.112	2.971	0.029	1.648	1.648	858.879	0.604
Snowblowers	2019	G4	C	6	15	7.023	570.119	5.096	0.024	0.292	0.292	858.879	0.366
Snowblowers	2019	G4	C	16	25	7.282	603.882	4.723	0.021	0.292	0.292	858.879	0.38
Snowblowers	2019	G4	R	3	5	11.577	573.112	2.971	0.029	1.648	1.648	858.879	0.604
Snowblowers	2019	G4	R	6	15	7.023	570.119	5.096	0.024	0.292	0.292	858.879	0.366
Snowblowers	2019	G4	R	16	25	7.282	603.882	4.723	0.021	0.292	0.292	858.879	0.38
Snowblowers	2020	G2	C	6	15	50.759	325.86	2.921	0.035	0.706	0.706	858.879	3.154
Snowblowers	2020	G2	C	16	25	51.862	321.96	2.913	0.035	0.706	0.706	858.879	3.223
Snowblowers	2020	G2	R	6	15	50.759	325.86	2.921	0.035	0.706	0.706	858.879	3.154
Snowblowers	2020	G2	R	16	25	51.862	321.96	2.913	0.035	0.706	0.706	858.879	3.223
Snowblowers	2020	G4	C	3	5	11.32	570.763	2.884	0.029	1.648	1.648	858.879	0.59
Snowblowers	2020	G4	C	6	15	6.917	568.949	5.038	0.024	0.292	0.292	858.879	0.361
Snowblowers	2020	G4	C	16	25	7.178	602.855	4.673	0.021	0.292	0.292	858.879	0.374
Snowblowers	2020	G4	R	3	5	11.32	570.763	2.884	0.029	1.648	1.648	858.879	0.59
Snowblowers	2020	G4	R	6	15	6.917	568.949	5.038	0.024	0.292	0.292	858.879	0.361
Snowblowers	2020	G4	R	16	25	7.178	602.855	4.673	0.021	0.292	0.292	858.879	0.374
Snowblowers	2021	G2	C	6	15	49.269	323.908	2.918	0.035	0.663	0.663	858.879	3.062
Snowblowers	2021	G2	C	16	25	50.166	320.811	2.913	0.035	0.663	0.663	858.879	3.118
Snowblowers	2021	G2	R	6	15	49.269	323.908	2.918	0.035	0.663	0.663	858.879	3.062
Snowblowers	2021	G2	R	16	25	50.166	320.811	2.913	0.035	0.663	0.663	858.879	3.118
Snowblowers	2021	G4	C	3	5	11.036	568.463	2.784	0.029	1.647	1.647	858.879	0.576
Snowblowers	2021	G4	C	6	15	6.794	567.544	4.97	0.024	0.292	0.292	858.879	0.354
Snowblowers	2021	G4	C	16	25	7.056	601.586	4.613	0.021	0.292	0.292	858.88	0.368
Snowblowers	2021	G4	R	3	5	11.036	568.463	2.784	0.029	1.647	1.647	858.879	0.576
Snowblowers	2021	G4	R	6	15	6.794	567.544	4.97	0.024	0.292	0.292	858.879	0.354
Snowblowers	2021	G4	R	16	25	7.056	601.586	4.613	0.021	0.292	0.292	858.88	0.368
Snowblowers	2022	G2	C	6	15	48.322	322.483	2.918	0.035	0.629	0.629	858.879	3.003
Snowblowers	2022	G2	C	16	25	49.065	320.014	2.915	0.035	0.629	0.629	858.879	3.049
Snowblowers	2022	G2	R	6	15	48.322	322.483	2.918	0.035	0.629	0.629	858.879	3.003
Snowblowers	2022	G2	R	16	25	49.065	320.014	2.915	0.035	0.629	0.629	858.879	3.049
Snowblowers	2022	G4	C	3	5	10.839	566.566	2.708	0.029	1.647	1.647	858.879	0.566
Snowblowers	2022	G4	C	6	15	6.7	566.599	4.917	0.024	0.292	0.292	858.879	0.349
Snowblowers	2022	G4	C	16	25	6.963	600.747	4.567	0.021	0.292	0.292	858.88	0.363
Snowblowers	2022	G4	R	3	5	10.839	566.566	2.708	0.029	1.647	1.647	858.879	0.566
Snowblowers	2022	G4	R	6	15	6.7	566.599	4.917	0.024	0.292	0.292	858.879	0.349
Snowblowers	2022	G4	R	16	25	6.963	600.747	4.567	0.021	0.292	0.292	858.88	0.363

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Snowblowers	2023	G2	C	6	15	47.429	321.202	2.919	0.035	0.599	0.599	858.879	2.947
Snowblowers	2023	G2	C	16	25	48.018	319.301	2.917	0.035	0.599	0.599	858.879	2.984
Snowblowers	2023	G2	R	6	15	47.429	321.202	2.919	0.035	0.599	0.599	858.879	2.947
Snowblowers	2023	G2	R	16	25	48.018	319.301	2.917	0.035	0.599	0.599	858.879	2.984
Snowblowers	2023	G4	C	3	5	10.691	564.937	2.664	0.029	1.647	1.647	858.879	0.558
Snowblowers	2023	G4	C	6	15	6.613	565.723	4.868	0.024	0.292	0.292	858.879	0.345
Snowblowers	2023	G4	C	16	25	6.877	599.961	4.524	0.021	0.292	0.292	858.879	0.359
Snowblowers	2023	G4	R	3	5	10.691	564.937	2.664	0.029	1.647	1.647	858.879	0.558
Snowblowers	2023	G4	R	6	15	6.613	565.723	4.868	0.024	0.292	0.292	858.879	0.345
Snowblowers	2023	G4	R	16	25	6.877	599.961	4.524	0.021	0.292	0.292	858.879	0.359
Snowblowers	2024	G2	C	6	15	46.67	320.149	2.92	0.035	0.573	0.573	858.879	2.9
Snowblowers	2024	G2	C	16	25	47.12	318.737	2.919	0.035	0.573	0.573	858.879	2.928
Snowblowers	2024	G2	R	6	15	46.67	320.149	2.92	0.035	0.573	0.573	858.879	2.9
Snowblowers	2024	G2	R	16	25	47.12	318.737	2.919	0.035	0.573	0.573	858.879	2.928
Snowblowers	2024	G4	C	3	5	10.578	563.519	2.635	0.029	1.647	1.647	858.879	0.552
Snowblowers	2024	G4	C	6	15	6.556	564.959	4.839	0.024	0.292	0.292	858.879	0.342
Snowblowers	2024	G4	C	16	25	6.822	599.274	4.5	0.021	0.292	0.292	858.879	0.356
Snowblowers	2024	G4	R	3	5	10.578	563.519	2.635	0.029	1.647	1.647	858.879	0.552
Snowblowers	2024	G4	R	6	15	6.556	564.959	4.839	0.024	0.292	0.292	858.879	0.342
Snowblowers	2024	G4	R	16	25	6.822	599.274	4.5	0.021	0.292	0.292	858.879	0.356
Snowblowers	2025	G2	C	6	15	46.053	319.364	2.919	0.035	0.552	0.552	858.879	2.862
Snowblowers	2025	G2	C	16	25	46.385	318.356	2.919	0.035	0.552	0.552	858.879	2.883
Snowblowers	2025	G2	R	6	15	46.053	319.364	2.919	0.035	0.552	0.552	858.879	2.862
Snowblowers	2025	G2	R	16	25	46.385	318.356	2.919	0.035	0.552	0.552	858.879	2.883
Snowblowers	2025	G4	C	3	5	10.49	562.347	2.61	0.029	1.647	1.647	858.879	0.548
Snowblowers	2025	G4	C	6	15	6.514	564.306	4.82	0.024	0.292	0.292	858.879	0.34
Snowblowers	2025	G4	C	16	25	6.782	598.683	4.485	0.021	0.292	0.292	858.879	0.354
Snowblowers	2025	G4	R	3	5	10.49	562.347	2.61	0.029	1.647	1.647	858.879	0.548
Snowblowers	2025	G4	R	6	15	6.514	564.306	4.82	0.024	0.292	0.292	858.879	0.34
Snowblowers	2025	G4	R	16	25	6.782	598.683	4.485	0.021	0.292	0.292	858.879	0.354
Snowblowers	2030	G2	C	6	15	44.544	317.797	2.911	0.035	0.501	0.501	858.879	2.768
Snowblowers	2030	G2	C	16	25	44.555	317.775	2.911	0.035	0.501	0.501	858.879	2.769
Snowblowers	2030	G2	R	6	15	44.544	317.797	2.911	0.035	0.501	0.501	858.879	2.768
Snowblowers	2030	G2	R	16	25	44.555	317.775	2.911	0.035	0.501	0.501	858.879	2.769
Snowblowers	2030	G4	C	3	5	10.268	559.045	2.518	0.029	1.647	1.647	858.879	0.537
Snowblowers	2030	G4	C	6	15	6.384	562.117	4.754	0.024	0.292	0.292	858.879	0.334
Snowblowers	2030	G4	C	16	25	6.658	596.614	4.433	0.021	0.292	0.292	858.879	0.348
Snowblowers	2030	G4	R	3	5	10.268	559.045	2.518	0.029	1.647	1.647	858.879	0.537
Snowblowers	2030	G4	R	6	15	6.384	562.117	4.754	0.024	0.292	0.292	858.879	0.334
Snowblowers	2030	G4	R	16	25	6.658	596.614	4.433	0.021	0.292	0.292	858.879	0.348
Snowblowers	2035	G2	C	6	15	44.492	317.759	2.904	0.035	0.499	0.499	858.879	2.765
Snowblowers	2035	G2	C	16	25	44.492	317.759	2.904	0.035	0.499	0.499	858.879	2.765
Snowblowers	2035	G2	R	6	15	44.492	317.759	2.904	0.035	0.499	0.499	858.879	2.765
Snowblowers	2035	G2	R	16	25	44.492	317.759	2.904	0.035	0.499	0.499	858.879	2.765
Snowblowers	2035	G4	C	3	5	10.203	557.747	2.478	0.029	1.647	1.647	858.88	0.534
Snowblowers	2035	G4	C	6	15	6.334	561.031	4.721	0.024	0.292	0.292	858.879	0.331
Snowblowers	2035	G4	C	16	25	6.607	595.493	4.404	0.021	0.292	0.292	858.879	0.346
Snowblowers	2035	G4	R	3	5	10.203	557.747	2.478	0.029	1.647	1.647	858.88	0.534
Snowblowers	2035	G4	R	6	15	6.334	561.031	4.721	0.024	0.292	0.292	858.879	0.331
Snowblowers	2035	G4	R	16	25	6.607	595.493	4.404	0.021	0.292	0.292	858.879	0.346
Snowblowers	2040	G2	C	6	15	44.458	317.759	2.902	0.035	0.499	0.499	858.879	2.763
Snowblowers	2040	G2	C	16	25	44.458	317.759	2.902	0.035	0.499	0.499	858.879	2.763
Snowblowers	2040	G2	R	6	15	44.458	317.759	2.902	0.035	0.499	0.499	858.879	2.763
Snowblowers	2040	G2	R	16	25	44.458	317.759	2.902	0.035	0.499	0.499	858.879	2.763
Snowblowers	2040	G4	C	3	5	10.181	556.898	2.469	0.029	1.647	1.647	858.879	0.534
Snowblowers	2040	G4	C	6	15	6.318	560.117	4.709	0.024	0.292	0.292	858.879	0.331
Snowblowers	2040	G4	C	16	25	6.589	594.522	4.393	0.021	0.292	0.292	858.879	0.345
Snowblowers	2040	G4	R	3	5	10.181	556.898	2.469	0.029	1.647	1.647	858.879	0.534
Snowblowers	2040	G4	R	6	15	6.318	560.117	4.709	0.024	0.292	0.292	858.879	0.331
Snowblowers	2040	G4	R	16	25	6.589	594.522	4.393	0.021	0.292	0.292	858.879	0.345
Tillers	1990	G4	C	3	5	78.112	1313.172	4.892	0.434	2.184	2.184	858.879	9.227
Tillers	1990	G4	R	3	5	78.112	1313.172	4.892	0.434	2.184	2.184	858.879	9.227
Tillers	2000	G4	C	3	5	44.791	796.46	5.611	0.041	2.193	2.193	858.879	2.448
Tillers	2000	G4	R	3	5	44.791	796.46	5.611	0.041	2.193	2.193	858.879	2.448
Tillers	2005	G4	C	3	5	30.033	576.602	6.868	0.029	2.205	2.205	858.879	1.686
Tillers	2005	G4	R	3	5	30.033	576.602	6.868	0.029	2.205	2.205	858.879	1.686
Tillers	2010	G4	C	3	5	19.82	476.644	4.825	0.029	2.202	2.202	858.879	1.113
Tillers	2010	G4	R	3	5	19.82	476.644	4.825	0.029	2.202	2.202	858.879	1.113
Tillers	2011	G4	C	3	5	18.665	464.23	4.587	0.029	2.201	2.201	858.879	1.048
Tillers	2011	G4	R	3	5	18.665	464.23	4.587	0.029	2.201	2.201	858.879	1.048
Tillers	2012	G4	C	3	5	17.59	452.097	4.413	0.029	2.201	2.201	858.879	0.988
Tillers	2012	G4	R	3	5	17.59	452.097	4.413	0.029	2.201	2.201	858.879	0.988
Tillers	2013	G4	C	3	5	16.614	440.935	4.284	0.029	2.202	2.202	858.879	0.933
Tillers	2013	G4	R	3	5	16.614	440.935	4.284	0.029	2.202	2.202	858.879	0.933
Tillers	2014	G4	C	3	5	16.012	434.739	4.16	0.029	2.203	2.203	858.879	0.899
Tillers	2014	G4	R	3	5	16.012	434.739	4.16	0.029	2.203	2.203	858.879	0.899

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX _x g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Tillers	2015	G4	C	3	5	15.546	430.244	4.042	0.029	2.203	2.203	858.879	0.873
Tillers	2015	G4	R	3	5	15.546	430.244	4.042	0.029	2.203	2.203	858.879	0.873
Tillers	2016	G4	C	3	5	15.127	426.462	3.92	0.029	2.203	2.203	858.879	0.85
Tillers	2016	G4	R	3	5	15.127	426.462	3.92	0.029	2.203	2.203	858.879	0.85
Tillers	2017	G4	C	3	5	14.77	423.384	3.802	0.029	2.203	2.203	858.879	0.83
Tillers	2017	G4	R	3	5	14.77	423.384	3.802	0.029	2.203	2.203	858.879	0.83
Tillers	2018	G4	C	3	5	14.48	421.308	3.679	0.029	2.202	2.202	858.879	0.814
Tillers	2018	G4	R	3	5	14.48	421.308	3.679	0.029	2.202	2.202	858.879	0.814
Tillers	2019	G4	C	3	5	14.288	419.526	3.625	0.029	2.201	2.201	858.879	0.803
Tillers	2019	G4	R	3	5	14.288	419.526	3.625	0.029	2.201	2.201	858.879	0.803
Tillers	2020	G4	C	3	5	14.146	417.94	3.592	0.029	2.201	2.201	858.879	0.795
Tillers	2020	G4	R	3	5	14.146	417.94	3.592	0.029	2.201	2.201	858.879	0.795
Tillers	2021	G4	C	3	5	14.021	417.224	3.555	0.029	2.199	2.199	858.879	0.788
Tillers	2021	G4	R	3	5	14.021	417.224	3.555	0.029	2.199	2.199	858.879	0.788
Tillers	2022	G4	C	3	5	13.948	416.23	3.529	0.029	2.2	2.2	858.879	0.784
Tillers	2022	G4	R	3	5	13.948	416.23	3.529	0.029	2.2	2.2	858.879	0.784
Tillers	2023	G4	C	3	5	13.897	415.541	3.507	0.029	2.201	2.201	858.879	0.781
Tillers	2023	G4	R	3	5	13.897	415.541	3.507	0.029	2.201	2.201	858.879	0.781
Tillers	2024	G4	C	3	5	13.867	415.111	3.487	0.029	2.201	2.201	858.879	0.78
Tillers	2024	G4	R	3	5	13.867	415.111	3.487	0.029	2.201	2.201	858.879	0.78
Tillers	2025	G4	C	3	5	13.844	415.049	3.467	0.029	2.201	2.201	858.879	0.779
Tillers	2025	G4	R	3	5	13.844	415.049	3.467	0.029	2.201	2.201	858.879	0.779
Tillers	2030	G4	C	3	5	13.817	414.708	3.43	0.029	2.201	2.201	858.879	0.778
Tillers	2030	G4	R	3	5	13.817	414.708	3.43	0.029	2.201	2.201	858.879	0.778
Tillers	2035	G4	C	3	5	13.802	414.506	3.427	0.029	2.2	2.2	858.879	0.777
Tillers	2035	G4	R	3	5	13.802	414.506	3.427	0.029	2.2	2.2	858.879	0.777
Tillers	2040	G4	C	3	5	13.793	414.121	3.426	0.029	2.2	2.2	858.879	0.777
Tillers	2040	G4	R	3	5	13.793	414.121	3.426	0.029	2.2	2.2	858.879	0.777
Trimmers/Edgers/Brush Cutters	1990	G2	C	0	2	375.815	1332.647	1.862	0.466	6.479	6.479	772.991	32.05
Trimmers/Edgers/Brush Cutters	1990	G2	R	0	2	375.815	1332.647	1.862	0.466	6.479	6.479	772.991	32.05
Trimmers/Edgers/Brush Cutters	1990	G4	C	3	5	87.785	1374.249	4.92	0.434	2.809	2.809	858.879	10.37
Trimmers/Edgers/Brush Cutters	1990	G4	R	3	5	87.785	1374.249	4.92	0.434	2.809	2.809	858.879	10.37
Trimmers/Edgers/Brush Cutters	2000	G2	C	0	2	176.618	459.625	2.752	0.044	3.345	3.345	772.991	10.69
Trimmers/Edgers/Brush Cutters	2000	G2	R	0	2	176.618	459.625	2.752	0.044	3.345	3.345	772.991	10.69
Trimmers/Edgers/Brush Cutters	2000	G4	C	3	5	54.699	841.478	5.786	0.041	5.753	5.753	858.879	2.99
Trimmers/Edgers/Brush Cutters	2000	G4	R	3	5	54.699	841.478	5.786	0.041	5.753	5.753	858.879	2.99
Trimmers/Edgers/Brush Cutters	2005	G2	C	0	2	98.602	316.166	2.832	0.031	1.087	1.087	772.991	6.128
Trimmers/Edgers/Brush Cutters	2005	G2	R	0	2	98.602	316.166	2.832	0.031	1.087	1.087	772.991	6.128
Trimmers/Edgers/Brush Cutters	2005	G4	C	3	5	35.939	581.254	7.372	0.029	2.009	2.009	858.879	2.018
Trimmers/Edgers/Brush Cutters	2005	G4	R	3	5	35.939	581.254	7.372	0.029	2.009	2.009	858.879	2.018
Trimmers/Edgers/Brush Cutters	2010	G2	C	0	2	79.871	287.902	2.592	0.031	0.496	0.496	772.991	4.964
Trimmers/Edgers/Brush Cutters	2010	G2	R	0	2	79.871	287.902	2.592	0.031	0.496	0.496	772.991	4.964
Trimmers/Edgers/Brush Cutters	2010	G4	C	3	5	26.461	465.71	8.024	0.029	1.29	1.29	858.879	1.486
Trimmers/Edgers/Brush Cutters	2010	G4	R	3	5	26.461	465.71	8.024	0.029	1.29	1.29	858.879	1.486
Trimmers/Edgers/Brush Cutters	2011	G2	C	0	2	78.813	286.76	2.544	0.031	0.468	0.468	772.991	4.898
Trimmers/Edgers/Brush Cutters	2011	G2	R	0	2	78.813	286.76	2.544	0.031	0.468	0.468	772.991	4.898
Trimmers/Edgers/Brush Cutters	2011	G4	C	3	5	25.278	450.89	8.121	0.029	1.107	1.107	858.879	1.42
Trimmers/Edgers/Brush Cutters	2011	G4	R	3	5	25.278	450.89	8.121	0.029	1.107	1.107	858.879	1.42
Trimmers/Edgers/Brush Cutters	2012	G2	C	0	2	78.373	286.165	2.526	0.031	0.454	0.454	772.991	4.871
Trimmers/Edgers/Brush Cutters	2012	G2	R	0	2	78.373	286.165	2.526	0.031	0.454	0.454	772.991	4.871
Trimmers/Edgers/Brush Cutters	2012	G4	C	3	5	24.16	436.282	8.219	0.029	0.931	0.931	858.879	1.357
Trimmers/Edgers/Brush Cutters	2012	G4	R	3	5	24.16	436.282	8.219	0.029	0.931	0.931	858.879	1.357
Trimmers/Edgers/Brush Cutters	2013	G2	C	0	2	78.144	285.984	2.511	0.031	0.449	0.449	772.991	4.857
Trimmers/Edgers/Brush Cutters	2013	G2	R	0	2	78.144	285.984	2.511	0.031	0.449	0.449	772.991	4.857
Trimmers/Edgers/Brush Cutters	2013	G4	C	3	5	23.066	422.421	8.311	0.029	0.765	0.765	858.879	1.296
Trimmers/Edgers/Brush Cutters	2013	G4	R	3	5	23.066	422.421	8.311	0.029	0.765	0.765	858.879	1.296
Trimmers/Edgers/Brush Cutters	2014	G2	C	0	2	78.02	285.983	2.5	0.031	0.449	0.449	772.991	4.849
Trimmers/Edgers/Brush Cutters	2014	G2	R	0	2	78.02	285.983	2.5	0.031	0.449	0.449	772.991	4.849
Trimmers/Edgers/Brush Cutters	2014	G4	C	3	5	22.083	409.949	8.4	0.029	0.613	0.613	858.879	1.241
Trimmers/Edgers/Brush Cutters	2014	G4	R	3	5	22.083	409.949	8.4	0.029	0.613	0.613	858.879	1.241
Trimmers/Edgers/Brush Cutters	2015	G2	C	0	2	77.92	285.983	2.491	0.031	0.449	0.449	772.991	4.843
Trimmers/Edgers/Brush Cutters	2015	G2	R	0	2	77.92	285.983	2.491	0.031	0.449	0.449	772.991	4.843
Trimmers/Edgers/Brush Cutters	2015	G4	C	3	5	21.454	402.105	8.453	0.029	0.544	0.544	858.879	1.206
Trimmers/Edgers/Brush Cutters	2015	G4	R	3	5	21.454	402.105	8.453	0.029	0.544	0.544	858.879	1.206
Trimmers/Edgers/Brush Cutters	2016	G2	C	0	2	77.872	285.983	2.486	0.031	0.449	0.449	772.991	4.84
Trimmers/Edgers/Brush Cutters	2016	G2	R	0	2	77.872	285.983	2.486	0.031	0.449	0.449	772.991	4.84
Trimmers/Edgers/Brush Cutters	2016	G4	C	3	5	20.977	396.349	8.491	0.029	0.498	0.498	858.879	1.179
Trimmers/Edgers/Brush Cutters	2016	G4	R	3	5	20.977	396.349	8.491	0.029	0.498	0.498	858.879	1.179
Trimmers/Edgers/Brush Cutters	2017	G2	C	0	2	77.862	285.983	2.483	0.031	0.449	0.449	772.992	4.839
Trimmers/Edgers/Brush Cutters	2017	G2	R	0	2	77.862	285.983	2.483	0.031	0.449	0.449	772.992	4.839
Trimmers/Edgers/Brush Cutters	2017	G4	C	3	5	20.584	391.403	8.525	0.029	0.456	0.456	858.879	1.157
Trimmers/Edgers/Brush Cutters	2017	G4	R	3	5	20.584	391.403	8.525	0.029	0.456	0.456	858.879	1.157
Trimmers/Edgers/Brush Cutters	2018	G2	C	0	2	77.847	285.983	2.482	0.031	0.449	0.449	772.991	4.838
Trimmers/Edgers/Brush Cutters	2018	G2	R	0	2	77.847	285.983	2.482	0.031	0.449	0.449	772.991	4.838
Trimmers/Edgers/Brush Cutters	2018	G4	C	3	5	20.244	387.191	8.552	0.029	0.419	0.419	858.88	1.138
Trimmers/Edgers/Brush Cutters	2018	G4	R	3	5	20.244	387.191	8.552	0.029	0.419	0.419	858.88	1.138

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO ₂ g/bhp-hr	NOX g/bhp-hr	SO ₂ g/bhp-hr	PM ₁₀ g/bhp-hr	PM _{2.5} g/bhp-hr	CO ₂ g/bhp-hr	CH ₄ g/bhp-hr
Trimmers/Edgers/Brush Cutters	2019	G2	C	0	2	77.85	285.983	2.482	0.031	0.449	0.449	772.991	4.838
Trimmers/Edgers/Brush Cutters	2019	G2	R	0	2	77.85	285.983	2.482	0.031	0.449	0.449	772.991	4.838
Trimmers/Edgers/Brush Cutters	2019	G4	C	3	5	19.984	384.057	8.573	0.029	0.389	0.389	858.88	1.123
Trimmers/Edgers/Brush Cutters	2019	G4	R	3	5	19.984	384.057	8.573	0.029	0.389	0.389	858.88	1.123
Trimmers/Edgers/Brush Cutters	2020	G2	C	0	2	77.851	285.983	2.482	0.031	0.449	0.449	772.991	4.838
Trimmers/Edgers/Brush Cutters	2020	G2	R	0	2	77.851	285.983	2.482	0.031	0.449	0.449	772.991	4.838
Trimmers/Edgers/Brush Cutters	2020	G4	C	3	5	19.759	381.691	8.585	0.029	0.361	0.361	858.879	1.111
Trimmers/Edgers/Brush Cutters	2020	G4	R	3	5	19.759	381.691	8.585	0.029	0.361	0.361	858.879	1.111
Trimmers/Edgers/Brush Cutters	2021	G2	C	0	2	77.75	285.983	2.482	0.031	0.449	0.449	772.991	4.832
Trimmers/Edgers/Brush Cutters	2021	G2	R	0	2	77.75	285.983	2.482	0.031	0.449	0.449	772.991	4.832
Trimmers/Edgers/Brush Cutters	2021	G4	C	3	5	19.581	380.309	8.589	0.029	0.338	0.338	858.879	1.101
Trimmers/Edgers/Brush Cutters	2021	G4	R	3	5	19.581	380.309	8.589	0.029	0.338	0.338	858.879	1.101
Trimmers/Edgers/Brush Cutters	2022	G2	C	0	2	77.784	285.983	2.482	0.031	0.449	0.449	772.991	4.834
Trimmers/Edgers/Brush Cutters	2022	G2	R	0	2	77.784	285.983	2.482	0.031	0.449	0.449	772.991	4.834
Trimmers/Edgers/Brush Cutters	2022	G4	C	3	5	19.486	378.671	8.602	0.029	0.318	0.318	858.879	1.096
Trimmers/Edgers/Brush Cutters	2022	G4	R	3	5	19.486	378.671	8.602	0.029	0.318	0.318	858.879	1.096
Trimmers/Edgers/Brush Cutters	2023	G2	C	0	2	77.802	285.983	2.482	0.031	0.449	0.449	772.991	4.835
Trimmers/Edgers/Brush Cutters	2023	G2	R	0	2	77.802	285.983	2.482	0.031	0.449	0.449	772.991	4.835
Trimmers/Edgers/Brush Cutters	2023	G4	C	3	5	19.411	377.801	8.608	0.029	0.303	0.303	858.879	1.092
Trimmers/Edgers/Brush Cutters	2023	G4	R	3	5	19.411	377.801	8.608	0.029	0.303	0.303	858.879	1.092
Trimmers/Edgers/Brush Cutters	2024	G2	C	0	2	77.822	285.983	2.482	0.031	0.449	0.449	772.991	4.837
Trimmers/Edgers/Brush Cutters	2024	G2	R	0	2	77.822	285.983	2.482	0.031	0.449	0.449	772.991	4.837
Trimmers/Edgers/Brush Cutters	2024	G4	C	3	5	19.364	377.078	8.613	0.029	0.292	0.292	858.879	1.089
Trimmers/Edgers/Brush Cutters	2024	G4	R	3	5	19.364	377.078	8.613	0.029	0.292	0.292	858.879	1.089
Trimmers/Edgers/Brush Cutters	2025	G2	C	0	2	77.833	285.983	2.482	0.031	0.449	0.449	772.991	4.837
Trimmers/Edgers/Brush Cutters	2025	G2	R	0	2	77.833	285.983	2.482	0.031	0.449	0.449	772.991	4.837
Trimmers/Edgers/Brush Cutters	2025	G4	C	3	5	19.327	376.636	8.615	0.029	0.285	0.285	858.879	1.087
Trimmers/Edgers/Brush Cutters	2025	G4	R	3	5	19.327	376.636	8.615	0.029	0.285	0.285	858.879	1.087
Trimmers/Edgers/Brush Cutters	2030	G2	C	0	2	77.793	285.983	2.482	0.031	0.449	0.449	772.991	4.835
Trimmers/Edgers/Brush Cutters	2030	G2	R	0	2	77.793	285.983	2.482	0.031	0.449	0.449	772.991	4.835
Trimmers/Edgers/Brush Cutters	2030	G4	C	3	5	19.297	375.8	8.618	0.029	0.279	0.279	858.879	1.086
Trimmers/Edgers/Brush Cutters	2030	G4	R	3	5	19.297	375.8	8.618	0.029	0.279	0.279	858.879	1.086
Trimmers/Edgers/Brush Cutters	2035	G2	C	0	2	77.785	285.983	2.482	0.031	0.449	0.449	772.991	4.834
Trimmers/Edgers/Brush Cutters	2035	G2	R	0	2	77.785	285.983	2.482	0.031	0.449	0.449	772.991	4.834
Trimmers/Edgers/Brush Cutters	2035	G4	C	3	5	19.273	375.785	8.61	0.029	0.279	0.279	858.879	1.086
Trimmers/Edgers/Brush Cutters	2035	G4	R	3	5	19.273	375.785	8.61	0.029	0.279	0.279	858.879	1.086
Trimmers/Edgers/Brush Cutters	2040	G2	C	0	2	77.783	285.983	2.482	0.031	0.449	0.449	772.991	4.834
Trimmers/Edgers/Brush Cutters	2040	G2	R	0	2	77.783	285.983	2.482	0.031	0.449	0.449	772.991	4.834
Trimmers/Edgers/Brush Cutters	2040	G4	C	3	5	19.26	375.439	8.607	0.029	0.279	0.279	858.88	1.086
Trimmers/Edgers/Brush Cutters	2040	G4	R	3	5	19.26	375.439	8.607	0.029	0.279	0.279	858.88	1.086
Wood Splitters	1990	G4	C	3	5	72.405	1277.201	4.876	0.434	2.026	2.026	858.879	8.553
Wood Splitters	1990	G4	R	3	5	72.405	1277.201	4.876	0.434	2.026	2.026	858.879	8.553
Wood Splitters	2000	G4	C	3	5	39.734	763.399	5.668	0.041	2.025	2.025	858.879	2.172
Wood Splitters	2000	G4	R	3	5	39.734	763.399	5.668	0.041	2.025	2.025	858.879	2.172
Wood Splitters	2005	G4	C	3	5	24.031	546.706	6.964	0.029	2.026	2.026	858.879	1.349
Wood Splitters	2005	G4	R	3	5	24.031	546.706	6.964	0.029	2.026	2.026	858.879	1.349
Wood Splitters	2010	G4	C	3	5	17.322	497.944	4.296	0.029	2.027	2.027	858.879	0.973
Wood Splitters	2010	G4	R	3	5	17.322	497.944	4.296	0.029	2.027	2.027	858.879	0.973
Wood Splitters	2011	G4	C	3	5	16.626	491.73	4.202	0.029	2.026	2.026	858.88	0.934
Wood Splitters	2011	G4	R	3	5	16.626	491.73	4.202	0.029	2.026	2.026	858.88	0.934
Wood Splitters	2012	G4	C	3	5	16.118	485.723	4.111	0.029	2.027	2.027	858.879	0.905
Wood Splitters	2012	G4	R	3	5	16.118	485.723	4.111	0.029	2.027	2.027	858.879	0.905
Wood Splitters	2013	G4	C	3	5	15.648	479.726	4.02	0.029	2.026	2.026	858.879	0.879
Wood Splitters	2013	G4	R	3	5	15.648	479.726	4.02	0.029	2.026	2.026	858.879	0.879
Wood Splitters	2014	G4	C	3	5	15.214	473.893	3.931	0.029	2.027	2.027	858.879	0.855
Wood Splitters	2014	G4	R	3	5	15.214	473.893	3.931	0.029	2.027	2.027	858.879	0.855
Wood Splitters	2015	G4	C	3	5	14.797	468.31	3.845	0.029	2.027	2.027	858.879	0.831
Wood Splitters	2015	G4	R	3	5	14.797	468.31	3.845	0.029	2.027	2.027	858.879	0.831
Wood Splitters	2016	G4	C	3	5	14.421	463.308	3.759	0.029	2.026	2.026	858.879	0.81
Wood Splitters	2016	G4	R	3	5	14.421	463.308	3.759	0.029	2.026	2.026	858.879	0.81
Wood Splitters	2017	G4	C	3	5	14.081	458.821	3.676	0.029	2.027	2.027	858.879	0.791
Wood Splitters	2017	G4	R	3	5	14.081	458.821	3.676	0.029	2.027	2.027	858.879	0.791
Wood Splitters	2018	G4	C	3	5	13.794	455.965	3.589	0.029	2.027	2.027	858.879	0.775
Wood Splitters	2018	G4	R	3	5	13.794	455.965	3.589	0.029	2.027	2.027	858.879	0.775
Wood Splitters	2019	G4	C	3	5	13.542	453.901	3.503	0.029	2.027	2.027	858.88	0.761
Wood Splitters	2019	G4	R	3	5	13.542	453.901	3.503	0.029	2.027	2.027	858.88	0.761
Wood Splitters	2020	G4	C	3	5	13.32	452.189	3.419	0.029	2.027	2.027	858.879	0.749
Wood Splitters	2020	G4	R	3	5	13.32	452.189	3.419	0.029	2.027	2.027	858.879	0.749
Wood Splitters	2021	G4	C	3	5	13.11	450.835	3.337	0.029	2.026	2.026	858.879	0.737
Wood Splitters	2021	G4	R	3	5	13.11	450.835	3.337	0.029	2.026	2.026	858.879	0.737
Wood Splitters	2022	G4	C	3	5	12.957	449.327	3.27	0.029	2.027	2.027	858.879	0.728
Wood Splitters	2022	G4	R	3	5	12.957	449.327	3.27	0.029	2.027	2.027	858.879	0.728
Wood Splitters	2023	G4	C	3	5	12.835	448.312	3.229	0.029	2.026	2.026	858.879	0.722
Wood Splitters	2023	G4	R	3	5	12.835	448.312	3.229	0.029	2.026	2.026	858.879	0.722
Wood Splitters	2024	G4	C	3	5	12.751	447.259	3.204	0.029	2.027	2.027	858.879	0.717
Wood Splitters	2024	G4	R	3	5	12.751	447.259	3.204	0.029	2.027	2.027	858.879	0.717

Table 7.2 Landscape Equipment Running Emission Factors

Equipment Type	Year	Engine Type	Commercial or Residential	Low Hp	High Hp	ROG g/bhp-hr	CO, g/bhp-hr	NOX, g/bhp-hr	SO2, g/bhp-hr	PM10, g/bhp-hr	PM2_5, g/bhp-hr	CO2, g/bhp-hr	CH4, g/bhp-hr
Wood Splitters	2025	G4	C	3	5	12.68	446.516	3.181	0.029	2.027	2.027	858.879	0.713
Wood Splitters	2025	G4	R	3	5	12.68	446.516	3.181	0.029	2.027	2.027	858.879	0.713
Wood Splitters	2030	G4	C	3	5	12.507	444.35	3.1	0.029	2.026	2.026	858.879	0.704
Wood Splitters	2030	G4	R	3	5	12.507	444.35	3.1	0.029	2.026	2.026	858.879	0.704
Wood Splitters	2035	G4	C	3	5	12.449	443.751	3.065	0.029	2.026	2.026	858.879	0.701
Wood Splitters	2035	G4	R	3	5	12.449	443.751	3.065	0.029	2.026	2.026	858.879	0.701
Wood Splitters	2040	G4	C	3	5	12.434	443.365	3.059	0.029	2.026	2.026	858.879	0.701
Wood Splitters	2040	G4	R	3	5	12.434	443.365	3.059	0.029	2.026	2.026	858.879	0.701

Table 7.3 Landscape Equipment Usage

Land Use Type	Landscape Equipment Type	Usage	Units
Non-Residential	Chainsaws	2.47E-05	hr/sqft/day
	Chainsaws Preempt	2.47E-05	hr/sqft/day
	Front Mowers	1.81E-06	hr/sqft/day
	Lawn & Garden Tractors	4.04E-07	hr/sqft/day
	Lawn Mowers	2.49E-05	hr/sqft/day
	Leaf Blowers/Vacuums	9.54E-06	hr/sqft/day
	Other Lawn & Garden Equipment	1.43E-05	hr/sqft/day
	Rear Engine Riding Mowers	1.81E-06	hr/sqft/day
	Shredders	8.60E-06	hr/sqft/day
	Snowblowers	1.41E-07	hr/sqft/day
	Tillers	1.07E-06	hr/sqft/day
	Trimmers/Edgers/Brush Cutters	1.96E-05	hr/sqft/day
	Wood Splitters	7.18E-06	hr/sqft/day
Residential	Chainsaws	2.46E-03	hr/du/day
	Chainsaws Preempt	2.46E-03	hr/du/day
	Chippers/Stump Grinders	1.36E-03	hr/du/day
	Front Mowers	3.09E-03	hr/du/day
	Lawn & Garden Tractors	7.60E-04	hr/du/day
	Lawn Mowers	1.51E-02	hr/du/day
	Leaf Blowers/Vacuums	1.05E-03	hr/du/day
	Other Lawn & Garden Equipment	3.53E-04	hr/du/day
	Rear Engine Riding Mowers	3.09E-03	hr/du/day
	Shredders	5.18E-05	hr/du/day
	Snowblowers	2.98E-05	hr/du/day
	Tillers	1.48E-03	hr/du/day
	Trimmers/Edgers/Brush Cutters	1.45E-03	hr/du/day
Wood Splitters	5.42E-05	hr/du/day	

Notes:

1. Based on the total hours in OFFROAD2007 and number of dwelling units and non-residential square footage in California.

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Apartments High Rise	1	FALSE	176.92	3054.10	741.44	2182	1599
Apartments High Rise	2	FALSE	98.18	3054.10	741.44	6729	2687
Apartments High Rise	3	FALSE	149.25	3054.10	741.44	8057	3723
Apartments High Rise	4	FALSE	70.89	3054.10	741.44	5227	3155
Apartments High Rise	5	FALSE	90.83	3054.10	741.44	5828	2615
Apartments High Rise	6	FALSE	98.18	3054.10	741.44	6729	2687
Apartments High Rise	7	FALSE	174.12	3054.10	741.44	10340	4769
Apartments High Rise	8	FALSE	38.29	3054.10	741.44	5634	5516
Apartments High Rise	9	FALSE	53.81	3054.10	741.44	6683	6384
Apartments High Rise	10	FALSE	164.47	3054.10	741.44	8352	6030
Apartments High Rise	11	FALSE	35.05	3054.10	741.44	4180	4831
Apartments High Rise	12	FALSE	54.97	3054.10	741.44	4476	6281
Apartments High Rise	13	FALSE	44.60	3054.10	741.44	3096	4180
Apartments High Rise	14	FALSE	176.92	3054.10	741.44	2182	1599
Apartments High Rise	15	FALSE	164.47	3054.10	741.44	8352	6030
Apartments High Rise	1	TRUE	277.31	2557.38	741.44	2896	1662
Apartments High Rise	2	TRUE	401.59	2554.47	741.44	8883	1716
Apartments High Rise	3	TRUE	532.58	2553.86	741.44	10691	1662
Apartments High Rise	4	TRUE	282.15	2558.55	741.44	6873	1736
Apartments High Rise	5	TRUE	388.61	2561.86	741.44	7733	1662
Apartments High Rise	6	TRUE	401.59	2554.47	741.44	8883	1716
Apartments High Rise	7	TRUE	656.57	2553.86	741.44	13684	1704
Apartments High Rise	8	TRUE	226.43	2555.58	741.44	7475	1662
Apartments High Rise	9	TRUE	307.17	2553.86	741.44	8819	1719
Apartments High Rise	10	TRUE	696.81	2553.86	741.44	10983	1779
Apartments High Rise	11	TRUE	231.59	2553.86	741.44	5546	1662
Apartments High Rise	12	TRUE	332.65	2553.86	741.44	5940	1662
Apartments High Rise	13	TRUE	200.21	2553.86	741.44	4108	1662
Apartments High Rise	14	TRUE	277.31	2557.38	741.44	2896	1662
Apartments High Rise	15	TRUE	696.81	2553.86	741.44	10983	1779
Apartments Low Rise	1	FALSE	165.27	3172.76	810.36	8768	1599
Apartments Low Rise	2	FALSE	108.87	3172.76	810.36	8969	2687
Apartments Low Rise	3	FALSE	147.91	3172.76	810.36	9924	3723
Apartments Low Rise	4	FALSE	77.89	3172.76	810.36	6713	3155
Apartments Low Rise	5	FALSE	49.64	3172.76	810.36	16901	2615
Apartments Low Rise	6	FALSE	108.87	3172.76	810.36	8969	2687
Apartments Low Rise	7	FALSE	139.08	3172.76	810.36	11351	4769
Apartments Low Rise	8	FALSE	37.70	3172.76	810.36	6903	5516
Apartments Low Rise	9	FALSE	54.80	3172.76	810.36	9488	6384
Apartments Low Rise	10	FALSE	186.83	3172.76	810.36	9096	6030
Apartments Low Rise	11	FALSE	28.76	3172.76	810.36	8849	4831
Apartments Low Rise	12	FALSE	41.85	3172.76	810.36	4285	6281
Apartments Low Rise	13	FALSE	55.56	3172.76	810.36	6714	4180
Apartments Low Rise	14	FALSE	165.27	3172.76	810.36	8768	1599
Apartments Low Rise	15	FALSE	186.83	3172.76	810.36	9096	6030
Apartments Low Rise	1	TRUE	186.93	2635.07	810.36	11634	2498
Apartments Low Rise	2	TRUE	433.59	2631.74	810.36	11901	2498
Apartments Low Rise	3	TRUE	499.01	2630.88	810.36	13168	2498
Apartments Low Rise	4	TRUE	295.03	2634.44	810.36	8907	2498
Apartments Low Rise	5	TRUE	143.36	2630.88	810.36	22211	2753
Apartments Low Rise	6	TRUE	433.59	2631.74	810.36	11901	2498
Apartments Low Rise	7	TRUE	438.88	2630.88	810.36	15062	2498
Apartments Low Rise	8	TRUE	197.46	2631.99	810.36	9160	2498
Apartments Low Rise	9	TRUE	286.35	2630.88	810.36	12489	2616
Apartments Low Rise	10	TRUE	792.75	2630.88	810.36	12069	2498
Apartments Low Rise	11	TRUE	170.99	2630.88	810.36	11673	2579
Apartments Low Rise	12	TRUE	234.73	2630.88	810.36	5686	2498
Apartments Low Rise	13	TRUE	230.08	2635.92	810.36	8909	2498
Apartments Low Rise	14	TRUE	186.93	2635.07	810.36	11634	2498
Apartments Low Rise	15	TRUE	792.75	2630.88	810.36	12069	2498
Apartments Mid Rise	1	FALSE	176.92	3054.10	741.44	2182	1599
Apartments Mid Rise	2	FALSE	98.18	3054.10	741.44	6729	2687
Apartments Mid Rise	3	FALSE	149.25	3054.10	741.44	8057	3723
Apartments Mid Rise	4	FALSE	70.89	3054.10	741.44	5227	3155
Apartments Mid Rise	5	FALSE	90.83	3054.10	741.44	5828	2615
Apartments Mid Rise	6	FALSE	98.18	3054.10	741.44	6729	2687
Apartments Mid Rise	7	FALSE	174.12	3054.10	741.44	10340	4769

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Apartments Mid Rise	8	FALSE	38.29	3054.10	741.44	5634	5516
Apartments Mid Rise	9	FALSE	53.81	3054.10	741.44	6683	6384
Apartments Mid Rise	10	FALSE	164.47	3054.10	741.44	8352	6030
Apartments Mid Rise	11	FALSE	35.05	3054.10	741.44	4180	4831
Apartments Mid Rise	12	FALSE	54.97	3054.10	741.44	4476	6281
Apartments Mid Rise	13	FALSE	44.60	3054.10	741.44	3096	4180
Apartments Mid Rise	14	FALSE	176.92	3054.10	741.44	2182	1599
Apartments Mid Rise	15	FALSE	164.47	3054.10	741.44	8352	6030
Apartments Mid Rise	1	TRUE	277.31	2557.38	741.44	2896	1662
Apartments Mid Rise	2	TRUE	401.59	2554.47	741.44	8883	1716
Apartments Mid Rise	3	TRUE	532.58	2553.86	741.44	10691	1662
Apartments Mid Rise	4	TRUE	282.15	2558.55	741.44	6873	1736
Apartments Mid Rise	5	TRUE	388.61	2561.86	741.44	7733	1662
Apartments Mid Rise	6	TRUE	401.59	2554.47	741.44	8883	1716
Apartments Mid Rise	7	TRUE	656.57	2553.86	741.44	13684	1704
Apartments Mid Rise	8	TRUE	226.43	2555.58	741.44	7475	1662
Apartments Mid Rise	9	TRUE	307.17	2553.86	741.44	8819	1719
Apartments Mid Rise	10	TRUE	696.81	2553.86	741.44	10983	1779
Apartments Mid Rise	11	TRUE	231.59	2553.86	741.44	5546	1662
Apartments Mid Rise	12	TRUE	332.65	2553.86	741.44	5940	1662
Apartments Mid Rise	13	TRUE	200.21	2553.86	741.44	4108	1662
Apartments Mid Rise	14	TRUE	277.31	2557.38	741.44	2896	1662
Apartments Mid Rise	15	TRUE	696.81	2553.86	741.44	10983	1779
Arena	1	FALSE	0.56	1.85	1.81	3	0
Arena	2	FALSE	1.48	4.20	2.60	18	0
Arena	3	FALSE	1.75	4.16	2.70	17	4
Arena	4	FALSE	1.32	3.70	3.08	20	7
Arena	5	FALSE	1.08	3.36	2.99	18	7
Arena	6	FALSE	3.05	7.20	4.57	23	12
Arena	7	FALSE	0.36	1.31	0.65	17	0
Arena	8	FALSE	1.45	3.83	2.99	14	7
Arena	9	FALSE	2.01	5.75	3.10	14	4
Arena	10	FALSE	1.97	5.02	2.93	15	17
Arena	11	FALSE	2.01	5.75	3.10	14	4
Arena	12	FALSE	2.01	5.75	3.10	14	4
Arena	13	FALSE	1.08	4.27	2.83	4	7
Arena	14	FALSE	0.56	1.85	1.81	3	0
Arena	15	FALSE	1.97	5.02	2.93	15	17
Arena	1	TRUE	0.83	1.85	2.28	4	0
Arena	2	TRUE	2.17	4.20	3.26	22	0
Arena	3	TRUE	2.52	4.16	3.35	20	4
Arena	4	TRUE	1.93	3.70	3.80	23	7
Arena	5	TRUE	1.59	3.36	3.70	20	7
Arena	6	TRUE	4.47	7.20	5.65	26	12
Arena	7	TRUE	0.51	1.31	0.91	19	0
Arena	8	TRUE	2.12	3.83	3.70	15	7
Arena	9	TRUE	2.94	5.75	3.85	15	4
Arena	10	TRUE	2.89	5.02	3.62	17	17
Arena	11	TRUE	2.94	5.75	3.85	15	4
Arena	12	TRUE	2.94	5.75	3.85	15	4
Arena	13	TRUE	1.59	4.27	3.52	5	7
Arena	14	TRUE	0.83	1.85	2.28	4	0
Arena	15	TRUE	2.89	5.02	3.62	17	17
Automobile Care Center	1	FALSE	0.56	1.85	1.81	3	0
Automobile Care Center	2	FALSE	1.48	4.20	2.60	18	0
Automobile Care Center	3	FALSE	1.75	4.16	2.70	17	4
Automobile Care Center	4	FALSE	1.32	3.70	3.08	20	7
Automobile Care Center	5	FALSE	1.08	3.36	2.99	18	7
Automobile Care Center	6	FALSE	3.05	7.20	4.57	23	12
Automobile Care Center	7	FALSE	0.36	1.31	0.65	17	0
Automobile Care Center	8	FALSE	1.45	3.83	2.99	14	7
Automobile Care Center	9	FALSE	2.01	5.75	3.10	14	4
Automobile Care Center	10	FALSE	1.97	5.02	2.93	15	17
Automobile Care Center	11	FALSE	2.01	5.75	3.10	14	4
Automobile Care Center	12	FALSE	2.01	5.75	3.10	14	4
Automobile Care Center	13	FALSE	1.08	4.27	2.83	4	7
Automobile Care Center	14	FALSE	0.56	1.85	1.81	3	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Automobile Care Center	15	FALSE	1.97	5.02	2.93	15	17
Automobile Care Center	1	TRUE	0.83	1.85	2.28	4	0
Automobile Care Center	2	TRUE	2.17	4.20	3.26	22	0
Automobile Care Center	3	TRUE	2.52	4.16	3.35	20	4
Automobile Care Center	4	TRUE	1.93	3.70	3.80	23	7
Automobile Care Center	5	TRUE	1.59	3.36	3.70	20	7
Automobile Care Center	6	TRUE	4.47	7.20	5.65	26	12
Automobile Care Center	7	TRUE	0.51	1.31	0.91	19	0
Automobile Care Center	8	TRUE	2.12	3.83	3.70	15	7
Automobile Care Center	9	TRUE	2.94	5.75	3.85	15	4
Automobile Care Center	10	TRUE	2.89	5.02	3.62	17	17
Automobile Care Center	11	TRUE	2.94	5.75	3.85	15	4
Automobile Care Center	12	TRUE	2.94	5.75	3.85	15	4
Automobile Care Center	13	TRUE	1.59	4.27	3.52	5	7
Automobile Care Center	14	TRUE	0.83	1.85	2.28	4	0
Automobile Care Center	15	TRUE	2.89	5.02	3.62	17	17
Bank (with Drive-Through)	1	FALSE	0.56	1.85	1.81	3	0
Bank (with Drive-Through)	2	FALSE	1.48	4.20	2.60	18	0
Bank (with Drive-Through)	3	FALSE	1.75	4.16	2.70	17	4
Bank (with Drive-Through)	4	FALSE	1.32	3.70	3.08	20	7
Bank (with Drive-Through)	5	FALSE	1.08	3.36	2.99	18	7
Bank (with Drive-Through)	6	FALSE	3.05	7.20	4.57	23	12
Bank (with Drive-Through)	7	FALSE	0.36	1.31	0.65	17	0
Bank (with Drive-Through)	8	FALSE	1.45	3.83	2.99	14	7
Bank (with Drive-Through)	9	FALSE	2.01	5.75	3.10	14	4
Bank (with Drive-Through)	10	FALSE	1.97	5.02	2.93	15	17
Bank (with Drive-Through)	11	FALSE	2.01	5.75	3.10	14	4
Bank (with Drive-Through)	12	FALSE	2.01	5.75	3.10	14	4
Bank (with Drive-Through)	13	FALSE	1.08	4.27	2.83	4	7
Bank (with Drive-Through)	14	FALSE	0.56	1.85	1.81	3	0
Bank (with Drive-Through)	15	FALSE	1.97	5.02	2.93	15	17
Bank (with Drive-Through)	1	TRUE	0.83	1.85	2.28	4	0
Bank (with Drive-Through)	2	TRUE	2.17	4.20	3.26	22	0
Bank (with Drive-Through)	3	TRUE	2.52	4.16	3.35	20	4
Bank (with Drive-Through)	4	TRUE	1.93	3.70	3.80	23	7
Bank (with Drive-Through)	5	TRUE	1.59	3.36	3.70	20	7
Bank (with Drive-Through)	6	TRUE	4.47	7.20	5.65	26	12
Bank (with Drive-Through)	7	TRUE	0.51	1.31	0.91	19	0
Bank (with Drive-Through)	8	TRUE	2.12	3.83	3.70	15	7
Bank (with Drive-Through)	9	TRUE	2.94	5.75	3.85	15	4
Bank (with Drive-Through)	10	TRUE	2.89	5.02	3.62	17	17
Bank (with Drive-Through)	11	TRUE	2.94	5.75	3.85	15	4
Bank (with Drive-Through)	12	TRUE	2.94	5.75	3.85	15	4
Bank (with Drive-Through)	13	TRUE	1.59	4.27	3.52	5	7
Bank (with Drive-Through)	14	TRUE	0.83	1.85	2.28	4	0
Bank (with Drive-Through)	15	TRUE	2.89	5.02	3.62	17	17
City Park	1	FALSE	0.00	0.00	0.00	0	0
City Park	2	FALSE	0.00	0.00	0.00	0	0
City Park	3	FALSE	0.00	0.00	0.00	0	0
City Park	4	FALSE	0.00	0.00	0.00	0	0
City Park	5	FALSE	0.00	0.00	0.00	0	0
City Park	6	FALSE	0.00	0.00	0.00	0	0
City Park	7	FALSE	0.00	0.00	0.00	0	0
City Park	8	FALSE	0.00	0.00	0.00	0	0
City Park	9	FALSE	0.00	0.00	0.00	0	0
City Park	10	FALSE	0.00	0.00	0.00	0	0
City Park	11	FALSE	0.00	0.00	0.00	0	0
City Park	12	FALSE	0.00	0.00	0.00	0	0
City Park	13	FALSE	0.00	0.00	0.00	0	0
City Park	14	FALSE	0.00	0.00	0.00	0	0
City Park	15	FALSE	0.00	0.00	0.00	0	0
City Park	1	TRUE	0.00	0.00	0.00	0	0
City Park	2	TRUE	0.00	0.00	0.00	0	0
City Park	3	TRUE	0.00	0.00	0.00	0	0
City Park	4	TRUE	0.00	0.00	0.00	0	0
City Park	5	TRUE	0.00	0.00	0.00	0	0
City Park	6	TRUE	0.00	0.00	0.00	0	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
City Park	7	TRUE	0.00	0.00	0.00	0	0
City Park	8	TRUE	0.00	0.00	0.00	0	0
City Park	9	TRUE	0.00	0.00	0.00	0	0
City Park	10	TRUE	0.00	0.00	0.00	0	0
City Park	11	TRUE	0.00	0.00	0.00	0	0
City Park	12	TRUE	0.00	0.00	0.00	0	0
City Park	13	TRUE	0.00	0.00	0.00	0	0
City Park	14	TRUE	0.00	0.00	0.00	0	0
City Park	15	TRUE	0.00	0.00	0.00	0	0
Condo/Townhouse	1	FALSE	204.10	3795.01	1001.10	3351	1599
Condo/Townhouse	2	FALSE	80.14	3795.01	1001.10	16185	2687
Condo/Townhouse	3	FALSE	149.52	3795.01	1001.10	12904	3723
Condo/Townhouse	4	FALSE	52.36	3795.01	1001.10	14105	3155
Condo/Townhouse	5	FALSE	42.95	3795.01	1001.10	18214	2615
Condo/Townhouse	6	FALSE	80.14	3795.01	1001.10	16185	2687
Condo/Townhouse	7	FALSE	132.57	3795.01	1001.10	6681	4769
Condo/Townhouse	8	FALSE	36.21	3795.01	1001.10	10989	5516
Condo/Townhouse	9	FALSE	51.20	3795.01	1001.10	9778	6384
Condo/Townhouse	10	FALSE	177.65	3795.01	1001.10	15070	6030
Condo/Townhouse	11	FALSE	39.19	3795.01	1001.10	12163	4831
Condo/Townhouse	12	FALSE	48.14	3795.01	1001.10	8858	6281
Condo/Townhouse	13	FALSE	47.72	3795.01	1001.10	9244	4180
Condo/Townhouse	14	FALSE	204.10	3795.01	1001.10	3351	1599
Condo/Townhouse	15	FALSE	177.65	3795.01	1001.10	15070	6030
Condo/Townhouse	1	TRUE	618.37	3125.85	1001.10	4221	2951
Condo/Townhouse	2	TRUE	375.03	3125.85	1001.10	20388	2951
Condo/Townhouse	3	TRUE	671.81	3125.85	1001.10	16255	2951
Condo/Townhouse	4	TRUE	229.45	3125.85	1001.10	17767	2951
Condo/Townhouse	5	TRUE	169.05	3125.85	1001.10	22944	2951
Condo/Townhouse	6	TRUE	375.03	3125.85	1001.10	20388	2951
Condo/Townhouse	7	TRUE	551.09	3125.85	1001.10	8416	2951
Condo/Townhouse	8	TRUE	245.59	3126.32	1001.10	13843	2951
Condo/Townhouse	9	TRUE	336.00	3126.97	1001.10	12317	2951
Condo/Townhouse	10	TRUE	933.44	3125.85	1001.10	18983	2951
Condo/Townhouse	11	TRUE	286.69	3125.85	1001.10	15240	3047
Condo/Townhouse	12	TRUE	336.32	3125.85	1001.10	11139	2974
Condo/Townhouse	13	TRUE	257.40	3126.41	1001.10	11602	3002
Condo/Townhouse	14	TRUE	618.37	3125.85	1001.10	4221	2951
Condo/Townhouse	15	TRUE	933.44	3125.85	1001.10	18983	2951
Condo/Townhouse High Rise	1	FALSE	176.92	3054.10	1001.10	2182	1599
Condo/Townhouse High Rise	2	FALSE	98.18	3054.10	1001.10	6729	2687
Condo/Townhouse High Rise	3	FALSE	149.25	3054.10	1001.10	8057	3723
Condo/Townhouse High Rise	4	FALSE	70.89	3054.10	1001.10	5227	3155
Condo/Townhouse High Rise	5	FALSE	90.83	3054.10	1001.10	5828	2615
Condo/Townhouse High Rise	6	FALSE	98.18	3054.10	1001.10	6729	2687
Condo/Townhouse High Rise	7	FALSE	174.12	3054.10	1001.10	10340	4769
Condo/Townhouse High Rise	8	FALSE	38.29	3054.10	1001.10	5634	5516
Condo/Townhouse High Rise	9	FALSE	53.81	3054.10	1001.10	6683	6384
Condo/Townhouse High Rise	10	FALSE	164.47	3054.10	1001.10	8352	6030
Condo/Townhouse High Rise	11	FALSE	35.05	3054.10	1001.10	4180	4831
Condo/Townhouse High Rise	12	FALSE	54.97	3054.10	1001.10	4476	6281
Condo/Townhouse High Rise	13	FALSE	44.60	3054.10	1001.10	3096	4180
Condo/Townhouse High Rise	14	FALSE	176.92	3054.10	1001.10	2182	1599
Condo/Townhouse High Rise	15	FALSE	164.47	3054.10	1001.10	8352	6030
Condo/Townhouse High Rise	1	TRUE	618.37	3125.85	1001.10	4221	2951
Condo/Townhouse High Rise	2	TRUE	375.03	3125.85	1001.10	20388	2951
Condo/Townhouse High Rise	3	TRUE	671.81	3125.85	1001.10	16255	2951
Condo/Townhouse High Rise	4	TRUE	229.45	3125.85	1001.10	17767	2951
Condo/Townhouse High Rise	5	TRUE	169.05	3125.85	1001.10	22944	2951
Condo/Townhouse High Rise	6	TRUE	375.03	3125.85	1001.10	20388	2951
Condo/Townhouse High Rise	7	TRUE	551.09	3125.85	1001.10	8416	2951
Condo/Townhouse High Rise	8	TRUE	245.59	3126.32	1001.10	13843	2951
Condo/Townhouse High Rise	9	TRUE	336.00	3126.97	1001.10	12317	2951
Condo/Townhouse High Rise	10	TRUE	933.44	3125.85	1001.10	18983	2951
Condo/Townhouse High Rise	11	TRUE	286.69	3125.85	1001.10	15240	3047
Condo/Townhouse High Rise	12	TRUE	336.32	3125.85	1001.10	11139	2974
Condo/Townhouse High Rise	13	TRUE	257.40	3126.41	1001.10	11602	3002

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Condo/Townhouse High Rise	14	TRUE	618.37	3125.85	1001.10	4221	2951
Condo/Townhouse High Rise	15	TRUE	933.44	3125.85	1001.10	18983	2951
Congregate Care (Assisted Living)	1	FALSE	176.92	3054.10	741.44	2182	1599
Congregate Care (Assisted Living)	2	FALSE	98.18	3054.10	741.44	6729	2687
Congregate Care (Assisted Living)	3	FALSE	149.25	3054.10	741.44	8057	3723
Congregate Care (Assisted Living)	4	FALSE	70.89	3054.10	741.44	5227	3155
Congregate Care (Assisted Living)	5	FALSE	90.83	3054.10	741.44	5828	2615
Congregate Care (Assisted Living)	6	FALSE	98.18	3054.10	741.44	6729	2687
Congregate Care (Assisted Living)	7	FALSE	174.12	3054.10	741.44	10340	4769
Congregate Care (Assisted Living)	8	FALSE	38.29	3054.10	741.44	5634	5516
Congregate Care (Assisted Living)	9	FALSE	53.81	3054.10	741.44	6683	6384
Congregate Care (Assisted Living)	10	FALSE	164.47	3054.10	741.44	8352	6030
Congregate Care (Assisted Living)	11	FALSE	35.05	3054.10	741.44	4180	4831
Congregate Care (Assisted Living)	12	FALSE	54.97	3054.10	741.44	4476	6281
Congregate Care (Assisted Living)	13	FALSE	44.60	3054.10	741.44	3096	4180
Congregate Care (Assisted Living)	14	FALSE	176.92	3054.10	741.44	2182	1599
Congregate Care (Assisted Living)	15	FALSE	164.47	3054.10	741.44	8352	6030
Congregate Care (Assisted Living)	1	TRUE	277.31	2557.38	741.44	2896	1662
Congregate Care (Assisted Living)	2	TRUE	401.59	2554.47	741.44	8883	1716
Congregate Care (Assisted Living)	3	TRUE	532.58	2553.86	741.44	10691	1662
Congregate Care (Assisted Living)	4	TRUE	282.15	2558.55	741.44	6873	1736
Congregate Care (Assisted Living)	5	TRUE	388.61	2561.86	741.44	7733	1662
Congregate Care (Assisted Living)	6	TRUE	401.59	2554.47	741.44	8883	1716
Congregate Care (Assisted Living)	7	TRUE	656.57	2553.86	741.44	13684	1704
Congregate Care (Assisted Living)	8	TRUE	226.43	2555.58	741.44	7475	1662
Congregate Care (Assisted Living)	9	TRUE	307.17	2553.86	741.44	8819	1719
Congregate Care (Assisted Living)	10	TRUE	696.81	2553.86	741.44	10983	1779
Congregate Care (Assisted Living)	11	TRUE	231.59	2553.86	741.44	5546	1662
Congregate Care (Assisted Living)	12	TRUE	332.65	2553.86	741.44	5940	1662
Congregate Care (Assisted Living)	13	TRUE	200.21	2553.86	741.44	4108	1662
Congregate Care (Assisted Living)	14	TRUE	277.31	2557.38	741.44	2896	1662
Congregate Care (Assisted Living)	15	TRUE	696.81	2553.86	741.44	10983	1779
Convenience Market (24 hour)	1	FALSE	4.47	2.81	5.70	7	0
Convenience Market (24 hour)	2	FALSE	3.48	1.98	5.91	11	0
Convenience Market (24 hour)	3	FALSE	1.91	2.30	3.71	9	2
Convenience Market (24 hour)	4	FALSE	2.46	2.68	5.25	2	0
Convenience Market (24 hour)	5	FALSE	2.00	3.36	4.88	4	1
Convenience Market (24 hour)	6	FALSE	2.91	2.98	5.33	4	1
Convenience Market (24 hour)	7	FALSE	2.82	2.49	4.53	6	0
Convenience Market (24 hour)	8	FALSE	2.62	2.80	5.71	1	1
Convenience Market (24 hour)	9	FALSE	3.58	3.23	6.26	1	0
Convenience Market (24 hour)	10	FALSE	4.09	2.44	5.61	2	0
Convenience Market (24 hour)	11	FALSE	3.58	3.23	6.26	1	0
Convenience Market (24 hour)	12	FALSE	3.58	3.23	6.26	1	0
Convenience Market (24 hour)	13	FALSE	2.84	3.16	6.22	1	1
Convenience Market (24 hour)	14	FALSE	4.47	2.81	5.70	7	0
Convenience Market (24 hour)	15	FALSE	4.09	2.44	5.61	2	0
Convenience Market (24 hour)	1	TRUE	6.81	2.81	6.86	9	0
Convenience Market (24 hour)	2	TRUE	4.97	1.98	7.17	14	0
Convenience Market (24 hour)	3	TRUE	2.77	2.30	4.53	10	2
Convenience Market (24 hour)	4	TRUE	3.55	2.68	6.02	3	0
Convenience Market (24 hour)	5	TRUE	2.90	3.36	5.88	5	1
Convenience Market (24 hour)	6	TRUE	4.20	2.98	6.45	6	1
Convenience Market (24 hour)	7	TRUE	4.12	2.49	5.50	7	0
Convenience Market (24 hour)	8	TRUE	3.79	2.80	6.85	1	1
Convenience Market (24 hour)	9	TRUE	5.17	3.23	7.56	1	0
Convenience Market (24 hour)	10	TRUE	5.95	2.44	8.20	2	0
Convenience Market (24 hour)	11	TRUE	5.17	3.23	7.56	1	0
Convenience Market (24 hour)	12	TRUE	5.17	3.23	7.56	1	0
Convenience Market (24 hour)	13	TRUE	4.13	3.16	7.50	1	1
Convenience Market (24 hour)	14	TRUE	6.81	2.81	6.86	9	0
Convenience Market (24 hour)	15	TRUE	5.95	2.44	8.20	2	0
Convenience Market with Gas Pumps	1	FALSE	4.47	2.81	5.70	7	0
Convenience Market with Gas Pumps	2	FALSE	3.48	1.98	5.91	11	0
Convenience Market with Gas Pumps	3	FALSE	1.91	2.30	3.71	9	2
Convenience Market with Gas Pumps	4	FALSE	2.46	2.68	5.25	2	0
Convenience Market with Gas Pumps	5	FALSE	2.00	3.36	4.88	4	1

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Convenience Market with Gas Pumps	6	FALSE	2.91	2.98	5.33	4	1
Convenience Market with Gas Pumps	7	FALSE	2.82	2.49	4.53	6	0
Convenience Market with Gas Pumps	8	FALSE	2.62	2.80	5.71	1	1
Convenience Market with Gas Pumps	9	FALSE	3.58	3.23	6.26	1	0
Convenience Market with Gas Pumps	10	FALSE	4.09	2.44	5.61	2	0
Convenience Market with Gas Pumps	11	FALSE	3.58	3.23	6.26	1	0
Convenience Market with Gas Pumps	12	FALSE	3.58	3.23	6.26	1	0
Convenience Market with Gas Pumps	13	FALSE	2.84	3.16	6.22	1	1
Convenience Market with Gas Pumps	14	FALSE	4.47	2.81	5.70	7	0
Convenience Market with Gas Pumps	15	FALSE	4.09	2.44	5.61	2	0
Convenience Market with Gas Pumps	1	TRUE	6.81	2.81	6.86	9	0
Convenience Market with Gas Pumps	2	TRUE	4.97	1.98	7.17	14	0
Convenience Market with Gas Pumps	3	TRUE	2.77	2.30	4.53	10	2
Convenience Market with Gas Pumps	4	TRUE	3.55	2.68	6.02	3	0
Convenience Market with Gas Pumps	5	TRUE	2.90	3.36	5.88	5	1
Convenience Market with Gas Pumps	6	TRUE	4.20	2.98	6.45	6	1
Convenience Market with Gas Pumps	7	TRUE	4.12	2.49	5.50	7	0
Convenience Market with Gas Pumps	8	TRUE	3.79	2.80	6.85	1	1
Convenience Market with Gas Pumps	9	TRUE	5.17	3.23	7.56	1	0
Convenience Market with Gas Pumps	10	TRUE	5.95	2.44	8.20	2	0
Convenience Market with Gas Pumps	11	TRUE	5.17	3.23	7.56	1	0
Convenience Market with Gas Pumps	12	TRUE	5.17	3.23	7.56	1	0
Convenience Market with Gas Pumps	13	TRUE	4.13	3.16	7.50	1	1
Convenience Market with Gas Pumps	14	TRUE	6.81	2.81	6.86	9	0
Convenience Market with Gas Pumps	15	TRUE	5.95	2.44	8.20	2	0
Day-Care Center	1	FALSE	1.45	1.48	3.69	13	1
Day-Care Center	2	FALSE	1.68	1.42	2.34	9	0
Day-Care Center	3	FALSE	1.92	1.89	2.99	23	2
Day-Care Center	4	FALSE	1.39	1.28	2.55	17	1
Day-Care Center	5	FALSE	0.59	1.27	2.51	15	2
Day-Care Center	6	FALSE	1.83	2.17	3.10	14	1
Day-Care Center	7	FALSE	1.74	1.95	3.44	10	0
Day-Care Center	8	FALSE	1.69	1.51	2.68	11	1
Day-Care Center	9	FALSE	1.56	1.59	2.59	9	1
Day-Care Center	10	FALSE	2.49	1.49	3.03	7	2
Day-Care Center	11	FALSE	1.56	1.59	2.59	9	1
Day-Care Center	12	FALSE	1.56	1.59	2.59	9	1
Day-Care Center	13	FALSE	1.36	1.18	2.54	5	0
Day-Care Center	14	FALSE	1.45	1.48	3.69	13	1
Day-Care Center	15	FALSE	2.49	1.49	3.03	7	2
Day-Care Center	1	TRUE	2.18	1.48	4.55	16	1
Day-Care Center	2	TRUE	2.43	1.42	2.90	11	0
Day-Care Center	3	TRUE	2.81	1.89	3.69	27	2
Day-Care Center	4	TRUE	2.03	1.28	3.02	21	1
Day-Care Center	5	TRUE	0.86	1.27	3.11	18	2
Day-Care Center	6	TRUE	2.74	2.17	3.82	17	1
Day-Care Center	7	TRUE	2.54	1.95	4.27	12	0
Day-Care Center	8	TRUE	2.46	1.51	3.30	12	1
Day-Care Center	9	TRUE	2.29	1.59	3.20	11	1
Day-Care Center	10	TRUE	3.64	1.49	4.52	8	2
Day-Care Center	11	TRUE	2.29	1.59	3.20	11	1
Day-Care Center	12	TRUE	2.29	1.59	3.20	11	1
Day-Care Center	13	TRUE	2.03	1.18	3.14	6	0
Day-Care Center	14	TRUE	2.18	1.48	4.55	16	1
Day-Care Center	15	TRUE	3.64	1.49	4.52	8	2
Discount Club	1	FALSE	4.47	2.81	5.70	7	0
Discount Club	2	FALSE	3.48	1.98	5.91	11	0
Discount Club	3	FALSE	1.91	2.30	3.71	9	2
Discount Club	4	FALSE	2.46	2.68	5.25	2	0
Discount Club	5	FALSE	2.00	3.36	4.88	4	1
Discount Club	6	FALSE	2.91	2.98	5.33	4	1
Discount Club	7	FALSE	2.82	2.49	4.53	6	0
Discount Club	8	FALSE	2.62	2.80	5.71	1	1
Discount Club	9	FALSE	3.58	3.23	6.26	1	0
Discount Club	10	FALSE	4.09	2.44	5.61	2	0
Discount Club	11	FALSE	3.58	3.23	6.26	1	0
Discount Club	12	FALSE	3.58	3.23	6.26	1	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Discount Club	13	FALSE	2.84	3.16	6.22	1	1
Discount Club	14	FALSE	4.47	2.81	5.70	7	0
Discount Club	15	FALSE	4.09	2.44	5.61	2	0
Discount Club	1	TRUE	6.81	2.81	6.86	9	0
Discount Club	2	TRUE	4.97	1.98	7.17	14	0
Discount Club	3	TRUE	2.77	2.30	4.53	10	2
Discount Club	4	TRUE	3.55	2.68	6.02	3	0
Discount Club	5	TRUE	2.90	3.36	5.88	5	1
Discount Club	6	TRUE	4.20	2.98	6.45	6	1
Discount Club	7	TRUE	4.12	2.49	5.50	7	0
Discount Club	8	TRUE	3.79	2.80	6.85	1	1
Discount Club	9	TRUE	5.17	3.23	7.56	1	0
Discount Club	10	TRUE	5.95	2.44	8.20	2	0
Discount Club	11	TRUE	5.17	3.23	7.56	1	0
Discount Club	12	TRUE	5.17	3.23	7.56	1	0
Discount Club	13	TRUE	4.13	3.16	7.50	1	1
Discount Club	14	TRUE	6.81	2.81	6.86	9	0
Discount Club	15	TRUE	5.95	2.44	8.20	2	0
Electronic Superstore	1	FALSE	4.47	2.81	5.70	7	0
Electronic Superstore	2	FALSE	3.48	1.98	5.91	11	0
Electronic Superstore	3	FALSE	1.91	2.30	3.71	9	2
Electronic Superstore	4	FALSE	2.46	2.68	5.25	2	0
Electronic Superstore	5	FALSE	2.00	3.36	4.88	4	1
Electronic Superstore	6	FALSE	2.91	2.98	5.33	4	1
Electronic Superstore	7	FALSE	2.82	2.49	4.53	6	0
Electronic Superstore	8	FALSE	2.62	2.80	5.71	1	1
Electronic Superstore	9	FALSE	3.58	3.23	6.26	1	0
Electronic Superstore	10	FALSE	4.09	2.44	5.61	2	0
Electronic Superstore	11	FALSE	3.58	3.23	6.26	1	0
Electronic Superstore	12	FALSE	3.58	3.23	6.26	1	0
Electronic Superstore	13	FALSE	2.84	3.16	6.22	1	1
Electronic Superstore	14	FALSE	4.47	2.81	5.70	7	0
Electronic Superstore	15	FALSE	4.09	2.44	5.61	2	0
Electronic Superstore	1	TRUE	6.81	2.81	6.86	9	0
Electronic Superstore	2	TRUE	4.97	1.98	7.17	14	0
Electronic Superstore	3	TRUE	2.77	2.30	4.53	10	2
Electronic Superstore	4	TRUE	3.55	2.68	6.02	3	0
Electronic Superstore	5	TRUE	2.90	3.36	5.88	5	1
Electronic Superstore	6	TRUE	4.20	2.98	6.45	6	1
Electronic Superstore	7	TRUE	4.12	2.49	5.50	7	0
Electronic Superstore	8	TRUE	3.79	2.80	6.85	1	1
Electronic Superstore	9	TRUE	5.17	3.23	7.56	1	0
Electronic Superstore	10	TRUE	5.95	2.44	8.20	2	0
Electronic Superstore	11	TRUE	5.17	3.23	7.56	1	0
Electronic Superstore	12	TRUE	5.17	3.23	7.56	1	0
Electronic Superstore	13	TRUE	4.13	3.16	7.50	1	1
Electronic Superstore	14	TRUE	6.81	2.81	6.86	9	0
Electronic Superstore	15	TRUE	5.95	2.44	8.20	2	0
Elementary School	1	FALSE	1.45	1.48	3.69	13	1
Elementary School	2	FALSE	1.68	1.42	2.34	9	0
Elementary School	3	FALSE	1.92	1.89	2.99	23	2
Elementary School	4	FALSE	1.39	1.28	2.55	17	1
Elementary School	5	FALSE	0.59	1.27	2.51	15	2
Elementary School	6	FALSE	1.83	2.17	3.10	14	1
Elementary School	7	FALSE	1.74	1.95	3.44	10	0
Elementary School	8	FALSE	1.69	1.51	2.68	11	1
Elementary School	9	FALSE	1.56	1.59	2.59	9	1
Elementary School	10	FALSE	2.49	1.49	3.03	7	2
Elementary School	11	FALSE	1.56	1.59	2.59	9	1
Elementary School	12	FALSE	1.56	1.59	2.59	9	1
Elementary School	13	FALSE	1.36	1.18	2.54	5	0
Elementary School	14	FALSE	1.45	1.48	3.69	13	1
Elementary School	15	FALSE	2.49	1.49	3.03	7	2
Elementary School	1	TRUE	2.18	1.48	4.55	16	1
Elementary School	2	TRUE	2.43	1.42	2.90	11	0
Elementary School	3	TRUE	2.81	1.89	3.69	27	2
Elementary School	4	TRUE	2.03	1.28	3.02	21	1

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Elementary School	5	TRUE	0.86	1.27	3.11	18	2
Elementary School	6	TRUE	2.74	2.17	3.82	17	1
Elementary School	7	TRUE	2.54	1.95	4.27	12	0
Elementary School	8	TRUE	2.46	1.51	3.30	12	1
Elementary School	9	TRUE	2.29	1.59	3.20	11	1
Elementary School	10	TRUE	3.64	1.49	4.52	8	2
Elementary School	11	TRUE	2.29	1.59	3.20	11	1
Elementary School	12	TRUE	2.29	1.59	3.20	11	1
Elementary School	13	TRUE	2.03	1.18	3.14	6	0
Elementary School	14	TRUE	2.18	1.48	4.55	16	1
Elementary School	15	TRUE	3.64	1.49	4.52	8	2
Enclosed Parking Structure	1	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	2	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	3	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	4	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	5	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	6	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	7	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	8	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	9	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	10	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	11	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	12	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	13	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	14	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	15	FALSE	3.50	0.00	1.75	0	0
Enclosed Parking Structure	1	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	2	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	3	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	4	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	5	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	6	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	7	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	8	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	9	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	10	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	11	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	12	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	13	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	14	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking Structure	15	TRUE	3.92	0.00	2.63	0	0
Enclosed Parking with Elevator	1	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	2	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	3	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	4	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	5	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	6	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	7	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	8	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	9	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	10	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	11	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	12	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	13	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	14	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	15	FALSE	3.50	0.19	1.75	0	0
Enclosed Parking with Elevator	1	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	2	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	3	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	4	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	5	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	6	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	7	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	8	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	9	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	10	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	11	TRUE	3.92	0.19	2.63	0	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Enclosed Parking with Elevator	12	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	13	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	14	TRUE	3.92	0.19	2.63	0	0
Enclosed Parking with Elevator	15	TRUE	3.92	0.19	2.63	0	0
Fast Food Restaurant w/o Drive Thru	1	FALSE	3.57	15.83	4.74	27	89
Fast Food Restaurant w/o Drive Thru	2	FALSE	5.41	17.72	7.57	40	69
Fast Food Restaurant w/o Drive Thru	3	FALSE	5.85	16.25	6.17	35	175
Fast Food Restaurant w/o Drive Thru	4	FALSE	4.52	22.30	5.35	60	147
Fast Food Restaurant w/o Drive Thru	5	FALSE	2.38	20.97	5.34	40	128
Fast Food Restaurant w/o Drive Thru	6	FALSE	7.86	26.72	6.19	59	118
Fast Food Restaurant w/o Drive Thru	7	FALSE	6.97	20.65	5.04	18	81
Fast Food Restaurant w/o Drive Thru	8	FALSE	7.78	20.11	7.66	78	181
Fast Food Restaurant w/o Drive Thru	9	FALSE	7.24	28.16	7.87	43	188
Fast Food Restaurant w/o Drive Thru	10	FALSE	11.06	28.48	6.62	77	196
Fast Food Restaurant w/o Drive Thru	11	FALSE	7.24	28.16	7.87	43	188
Fast Food Restaurant w/o Drive Thru	12	FALSE	7.24	28.16	7.87	43	188
Fast Food Restaurant w/o Drive Thru	13	FALSE	7.35	23.69	6.78	36	138
Fast Food Restaurant w/o Drive Thru	14	FALSE	3.57	15.83	4.74	27	89
Fast Food Restaurant w/o Drive Thru	15	FALSE	11.06	28.48	6.62	77	196
Fast Food Restaurant w/o Drive Thru	1	TRUE	5.30	15.83	5.76	30	89
Fast Food Restaurant w/o Drive Thru	2	TRUE	7.80	17.72	9.18	45	69
Fast Food Restaurant w/o Drive Thru	3	TRUE	8.49	16.25	7.47	39	175
Fast Food Restaurant w/o Drive Thru	4	TRUE	6.58	22.30	6.25	65	147
Fast Food Restaurant w/o Drive Thru	5	TRUE	3.42	20.97	6.45	43	128
Fast Food Restaurant w/o Drive Thru	6	TRUE	11.47	26.72	7.44	65	118
Fast Food Restaurant w/o Drive Thru	7	TRUE	10.14	20.65	6.13	21	81
Fast Food Restaurant w/o Drive Thru	8	TRUE	11.27	20.11	9.20	84	181
Fast Food Restaurant w/o Drive Thru	9	TRUE	10.52	28.16	9.64	47	188
Fast Food Restaurant w/o Drive Thru	10	TRUE	16.13	28.48	9.51	84	196
Fast Food Restaurant w/o Drive Thru	11	TRUE	10.52	28.16	9.64	47	188
Fast Food Restaurant w/o Drive Thru	12	TRUE	10.52	28.16	9.64	47	188
Fast Food Restaurant w/o Drive Thru	13	TRUE	10.67	23.69	8.19	38	138
Fast Food Restaurant w/o Drive Thru	14	TRUE	5.30	15.83	5.76	30	89
Fast Food Restaurant w/o Drive Thru	15	TRUE	16.13	28.48	9.51	84	196
Fast Food Restaurant with Drive Thru	1	FALSE	3.57	15.83	4.74	27	89
Fast Food Restaurant with Drive Thru	2	FALSE	5.41	17.72	7.57	40	69
Fast Food Restaurant with Drive Thru	3	FALSE	5.85	16.25	6.17	35	175
Fast Food Restaurant with Drive Thru	4	FALSE	4.52	22.30	5.35	60	147
Fast Food Restaurant with Drive Thru	5	FALSE	2.38	20.97	5.34	40	128
Fast Food Restaurant with Drive Thru	6	FALSE	7.86	26.72	6.19	59	118
Fast Food Restaurant with Drive Thru	7	FALSE	6.97	20.65	5.04	18	81
Fast Food Restaurant with Drive Thru	8	FALSE	7.78	20.11	7.66	78	181
Fast Food Restaurant with Drive Thru	9	FALSE	7.24	28.16	7.87	43	188
Fast Food Restaurant with Drive Thru	10	FALSE	11.06	28.48	6.62	77	196
Fast Food Restaurant with Drive Thru	11	FALSE	7.24	28.16	7.87	43	188
Fast Food Restaurant with Drive Thru	12	FALSE	7.24	28.16	7.87	43	188
Fast Food Restaurant with Drive Thru	13	FALSE	7.35	23.69	6.78	36	138
Fast Food Restaurant with Drive Thru	14	FALSE	3.57	15.83	4.74	27	89
Fast Food Restaurant with Drive Thru	15	FALSE	11.06	28.48	6.62	77	196
Fast Food Restaurant with Drive Thru	1	TRUE	5.30	15.83	5.76	30	89
Fast Food Restaurant with Drive Thru	2	TRUE	7.80	17.72	9.18	45	69
Fast Food Restaurant with Drive Thru	3	TRUE	8.49	16.25	7.47	39	175
Fast Food Restaurant with Drive Thru	4	TRUE	6.58	22.30	6.25	65	147
Fast Food Restaurant with Drive Thru	5	TRUE	3.42	20.97	6.45	43	128
Fast Food Restaurant with Drive Thru	6	TRUE	11.47	26.72	7.44	65	118
Fast Food Restaurant with Drive Thru	7	TRUE	10.14	20.65	6.13	21	81
Fast Food Restaurant with Drive Thru	8	TRUE	11.27	20.11	9.20	84	181
Fast Food Restaurant with Drive Thru	9	TRUE	10.52	28.16	9.64	47	188
Fast Food Restaurant with Drive Thru	10	TRUE	16.13	28.48	9.51	84	196
Fast Food Restaurant with Drive Thru	11	TRUE	10.52	28.16	9.64	47	188
Fast Food Restaurant with Drive Thru	12	TRUE	10.52	28.16	9.64	47	188
Fast Food Restaurant with Drive Thru	13	TRUE	10.67	23.69	8.19	38	138
Fast Food Restaurant with Drive Thru	14	TRUE	5.30	15.83	5.76	30	89
Fast Food Restaurant with Drive Thru	15	TRUE	16.13	28.48	9.51	84	196
Free-Standing Discount Store	1	FALSE	4.47	2.81	5.70	7	0
Free-Standing Discount Store	2	FALSE	3.48	1.98	5.91	11	0
Free-Standing Discount Store	3	FALSE	1.91	2.30	3.71	9	2

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Free-Standing Discount Store	4	FALSE	2.46	2.68	5.25	2	0
Free-Standing Discount Store	5	FALSE	2.00	3.36	4.88	4	1
Free-Standing Discount Store	6	FALSE	2.91	2.98	5.33	4	1
Free-Standing Discount Store	7	FALSE	2.82	2.49	4.53	6	0
Free-Standing Discount Store	8	FALSE	2.62	2.80	5.71	1	1
Free-Standing Discount Store	9	FALSE	3.58	3.23	6.26	1	0
Free-Standing Discount Store	10	FALSE	4.09	2.44	5.61	2	0
Free-Standing Discount Store	11	FALSE	3.58	3.23	6.26	1	0
Free-Standing Discount Store	12	FALSE	3.58	3.23	6.26	1	0
Free-Standing Discount Store	13	FALSE	2.84	3.16	6.22	1	1
Free-Standing Discount Store	14	FALSE	4.47	2.81	5.70	7	0
Free-Standing Discount Store	15	FALSE	4.09	2.44	5.61	2	0
Free-Standing Discount Store	1	TRUE	6.81	2.81	6.86	9	0
Free-Standing Discount Store	2	TRUE	4.97	1.98	7.17	14	0
Free-Standing Discount Store	3	TRUE	2.77	2.30	4.53	10	2
Free-Standing Discount Store	4	TRUE	3.55	2.68	6.02	3	0
Free-Standing Discount Store	5	TRUE	2.90	3.36	5.88	5	1
Free-Standing Discount Store	6	TRUE	4.20	2.98	6.45	6	1
Free-Standing Discount Store	7	TRUE	4.12	2.49	5.50	7	0
Free-Standing Discount Store	8	TRUE	3.79	2.80	6.85	1	1
Free-Standing Discount Store	9	TRUE	5.17	3.23	7.56	1	0
Free-Standing Discount Store	10	TRUE	5.95	2.44	8.20	2	0
Free-Standing Discount Store	11	TRUE	5.17	3.23	7.56	1	0
Free-Standing Discount Store	12	TRUE	5.17	3.23	7.56	1	0
Free-Standing Discount Store	13	TRUE	4.13	3.16	7.50	1	1
Free-Standing Discount Store	14	TRUE	6.81	2.81	6.86	9	0
Free-Standing Discount Store	15	TRUE	5.95	2.44	8.20	2	0
Free-Standing Discount Superstore	1	FALSE	4.47	2.81	5.70	7	0
Free-Standing Discount Superstore	2	FALSE	3.48	1.98	5.91	11	0
Free-Standing Discount Superstore	3	FALSE	1.91	2.30	3.71	9	2
Free-Standing Discount Superstore	4	FALSE	2.46	2.68	5.25	2	0
Free-Standing Discount Superstore	5	FALSE	2.00	3.36	4.88	4	1
Free-Standing Discount Superstore	6	FALSE	2.91	2.98	5.33	4	1
Free-Standing Discount Superstore	7	FALSE	2.82	2.49	4.53	6	0
Free-Standing Discount Superstore	8	FALSE	2.62	2.80	5.71	1	1
Free-Standing Discount Superstore	9	FALSE	3.58	3.23	6.26	1	0
Free-Standing Discount Superstore	10	FALSE	4.09	2.44	5.61	2	0
Free-Standing Discount Superstore	11	FALSE	3.58	3.23	6.26	1	0
Free-Standing Discount Superstore	12	FALSE	3.58	3.23	6.26	1	0
Free-Standing Discount Superstore	13	FALSE	2.84	3.16	6.22	1	1
Free-Standing Discount Superstore	14	FALSE	4.47	2.81	5.70	7	0
Free-Standing Discount Superstore	15	FALSE	4.09	2.44	5.61	2	0
Free-Standing Discount Superstore	1	TRUE	6.81	2.81	6.86	9	0
Free-Standing Discount Superstore	2	TRUE	4.97	1.98	7.17	14	0
Free-Standing Discount Superstore	3	TRUE	2.77	2.30	4.53	10	2
Free-Standing Discount Superstore	4	TRUE	3.55	2.68	6.02	3	0
Free-Standing Discount Superstore	5	TRUE	2.90	3.36	5.88	5	1
Free-Standing Discount Superstore	6	TRUE	4.20	2.98	6.45	6	1
Free-Standing Discount Superstore	7	TRUE	4.12	2.49	5.50	7	0
Free-Standing Discount Superstore	8	TRUE	3.79	2.80	6.85	1	1
Free-Standing Discount Superstore	9	TRUE	5.17	3.23	7.56	1	0
Free-Standing Discount Superstore	10	TRUE	5.95	2.44	8.20	2	0
Free-Standing Discount Superstore	11	TRUE	5.17	3.23	7.56	1	0
Free-Standing Discount Superstore	12	TRUE	5.17	3.23	7.56	1	0
Free-Standing Discount Superstore	13	TRUE	4.13	3.16	7.50	1	1
Free-Standing Discount Superstore	14	TRUE	6.81	2.81	6.86	9	0
Free-Standing Discount Superstore	15	TRUE	5.95	2.44	8.20	2	0
Gasoline/Service Station	1	FALSE	0.56	1.85	1.81	3	0
Gasoline/Service Station	2	FALSE	1.48	4.20	2.60	18	0
Gasoline/Service Station	3	FALSE	1.75	4.16	2.70	17	4
Gasoline/Service Station	4	FALSE	1.32	3.70	3.08	20	7
Gasoline/Service Station	5	FALSE	1.08	3.36	2.99	18	7
Gasoline/Service Station	6	FALSE	3.05	7.20	4.57	23	12
Gasoline/Service Station	7	FALSE	0.36	1.31	0.65	17	0
Gasoline/Service Station	8	FALSE	1.45	3.83	2.99	14	7
Gasoline/Service Station	9	FALSE	2.01	5.75	3.10	14	4
Gasoline/Service Station	10	FALSE	1.97	5.02	2.93	15	17

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Gasoline/Service Station	11	FALSE	2.01	5.75	3.10	14	4
Gasoline/Service Station	12	FALSE	2.01	5.75	3.10	14	4
Gasoline/Service Station	13	FALSE	1.08	4.27	2.83	4	7
Gasoline/Service Station	14	FALSE	0.56	1.85	1.81	3	0
Gasoline/Service Station	15	FALSE	1.97	5.02	2.93	15	17
Gasoline/Service Station	1	TRUE	0.83	1.85	2.28	4	0
Gasoline/Service Station	2	TRUE	2.17	4.20	3.26	22	0
Gasoline/Service Station	3	TRUE	2.52	4.16	3.35	20	4
Gasoline/Service Station	4	TRUE	1.93	3.70	3.80	23	7
Gasoline/Service Station	5	TRUE	1.59	3.36	3.70	20	7
Gasoline/Service Station	6	TRUE	4.47	7.20	5.65	26	12
Gasoline/Service Station	7	TRUE	0.51	1.31	0.91	19	0
Gasoline/Service Station	8	TRUE	2.12	3.83	3.70	15	7
Gasoline/Service Station	9	TRUE	2.94	5.75	3.85	15	4
Gasoline/Service Station	10	TRUE	2.89	5.02	3.62	17	17
Gasoline/Service Station	11	TRUE	2.94	5.75	3.85	15	4
Gasoline/Service Station	12	TRUE	2.94	5.75	3.85	15	4
Gasoline/Service Station	13	TRUE	1.59	4.27	3.52	5	7
Gasoline/Service Station	14	TRUE	0.83	1.85	2.28	4	0
Gasoline/Service Station	15	TRUE	2.89	5.02	3.62	17	17
General Heavy Industry	1	FALSE	0.56	1.85	1.81	3	0
General Heavy Industry	2	FALSE	1.48	4.20	2.60	18	0
General Heavy Industry	3	FALSE	1.75	4.16	2.70	17	4
General Heavy Industry	4	FALSE	1.32	3.70	3.08	20	7
General Heavy Industry	5	FALSE	1.08	3.36	2.99	18	7
General Heavy Industry	6	FALSE	3.05	7.20	4.57	23	12
General Heavy Industry	7	FALSE	0.36	1.31	0.65	17	0
General Heavy Industry	8	FALSE	1.45	3.83	2.99	14	7
General Heavy Industry	9	FALSE	2.01	5.75	3.10	14	4
General Heavy Industry	10	FALSE	1.97	5.02	2.93	15	17
General Heavy Industry	11	FALSE	2.01	5.75	3.10	14	4
General Heavy Industry	12	FALSE	2.01	5.75	3.10	14	4
General Heavy Industry	13	FALSE	1.08	4.27	2.83	4	7
General Heavy Industry	14	FALSE	0.56	1.85	1.81	3	0
General Heavy Industry	15	FALSE	1.97	5.02	2.93	15	17
General Heavy Industry	1	TRUE	0.83	1.85	2.28	4	0
General Heavy Industry	2	TRUE	2.17	4.20	3.26	22	0
General Heavy Industry	3	TRUE	2.52	4.16	3.35	20	4
General Heavy Industry	4	TRUE	1.93	3.70	3.80	23	7
General Heavy Industry	5	TRUE	1.59	3.36	3.70	20	7
General Heavy Industry	6	TRUE	4.47	7.20	5.65	26	12
General Heavy Industry	7	TRUE	0.51	1.31	0.91	19	0
General Heavy Industry	8	TRUE	2.12	3.83	3.70	15	7
General Heavy Industry	9	TRUE	2.94	5.75	3.85	15	4
General Heavy Industry	10	TRUE	2.89	5.02	3.62	17	17
General Heavy Industry	11	TRUE	2.94	5.75	3.85	15	4
General Heavy Industry	12	TRUE	2.94	5.75	3.85	15	4
General Heavy Industry	13	TRUE	1.59	4.27	3.52	5	7
General Heavy Industry	14	TRUE	0.83	1.85	2.28	4	0
General Heavy Industry	15	TRUE	2.89	5.02	3.62	17	17
General Light Industry	1	FALSE	0.56	1.85	1.81	3	0
General Light Industry	2	FALSE	1.48	4.20	2.60	18	0
General Light Industry	3	FALSE	1.75	4.16	2.70	17	4
General Light Industry	4	FALSE	1.32	3.70	3.08	20	7
General Light Industry	5	FALSE	1.08	3.36	2.99	18	7
General Light Industry	6	FALSE	3.05	7.20	4.57	23	12
General Light Industry	7	FALSE	0.36	1.31	0.65	17	0
General Light Industry	8	FALSE	1.45	3.83	2.99	14	7
General Light Industry	9	FALSE	2.01	5.75	3.10	14	4
General Light Industry	10	FALSE	1.97	5.02	2.93	15	17
General Light Industry	11	FALSE	2.01	5.75	3.10	14	4
General Light Industry	12	FALSE	2.01	5.75	3.10	14	4
General Light Industry	13	FALSE	1.08	4.27	2.83	4	7
General Light Industry	14	FALSE	0.56	1.85	1.81	3	0
General Light Industry	15	FALSE	1.97	5.02	2.93	15	17
General Light Industry	1	TRUE	0.83	1.85	2.28	4	0
General Light Industry	2	TRUE	2.17	4.20	3.26	22	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
General Light Industry	3	TRUE	2.52	4.16	3.35	20	4
General Light Industry	4	TRUE	1.93	3.70	3.80	23	7
General Light Industry	5	TRUE	1.59	3.36	3.70	20	7
General Light Industry	6	TRUE	4.47	7.20	5.65	26	12
General Light Industry	7	TRUE	0.51	1.31	0.91	19	0
General Light Industry	8	TRUE	2.12	3.83	3.70	15	7
General Light Industry	9	TRUE	2.94	5.75	3.85	15	4
General Light Industry	10	TRUE	2.89	5.02	3.62	17	17
General Light Industry	11	TRUE	2.94	5.75	3.85	15	4
General Light Industry	12	TRUE	2.94	5.75	3.85	15	4
General Light Industry	13	TRUE	1.59	4.27	3.52	5	7
General Light Industry	14	TRUE	0.83	1.85	2.28	4	0
General Light Industry	15	TRUE	2.89	5.02	3.62	17	17
General Office Building	1	FALSE	3.25	3.98	3.45	19	0
General Office Building	2	FALSE	2.87	3.62	3.17	16	0
General Office Building	3	FALSE	2.34	3.58	2.92	13	0
General Office Building	4	FALSE	5.45	7.84	3.88	16	0
General Office Building	5	FALSE	3.66	4.80	3.58	18	1
General Office Building	6	FALSE	4.44	5.75	3.71	12	1
General Office Building	7	FALSE	2.58	3.31	3.77	16	1
General Office Building	8	FALSE	4.21	4.94	4.34	9	1
General Office Building	9	FALSE	4.11	4.62	3.77	10	0
General Office Building	10	FALSE	2.74	2.79	3.66	3	0
General Office Building	11	FALSE	4.11	4.62	3.77	10	0
General Office Building	12	FALSE	4.11	4.62	3.77	10	0
General Office Building	13	FALSE	4.16	4.97	3.81	16	4
General Office Building	14	FALSE	3.25	3.98	3.45	19	0
General Office Building	15	FALSE	2.74	2.79	3.66	3	0
General Office Building	1	TRUE	5.02	3.98	4.24	24	0
General Office Building	2	TRUE	4.20	3.62	3.88	20	0
General Office Building	3	TRUE	3.45	3.58	3.58	15	0
General Office Building	4	TRUE	8.01	7.84	4.72	20	0
General Office Building	5	TRUE	5.42	4.80	4.34	23	1
General Office Building	6	TRUE	6.76	5.75	4.50	15	1
General Office Building	7	TRUE	3.78	3.31	4.58	20	1
General Office Building	8	TRUE	6.17	4.94	5.27	10	1
General Office Building	9	TRUE	5.99	4.62	4.63	12	0
General Office Building	10	TRUE	4.03	2.79	4.45	4	0
General Office Building	11	TRUE	5.99	4.62	4.63	12	0
General Office Building	12	TRUE	5.99	4.62	4.63	12	0
General Office Building	13	TRUE	6.14	4.97	4.63	19	4
General Office Building	14	TRUE	5.02	3.98	4.24	24	0
General Office Building	15	TRUE	4.03	2.79	4.45	4	0
Golf Course	1	FALSE	0.00	0.00	0.00	0	0
Golf Course	2	FALSE	0.00	0.00	0.00	0	0
Golf Course	3	FALSE	0.00	0.00	0.00	0	0
Golf Course	4	FALSE	0.00	0.00	0.00	0	0
Golf Course	5	FALSE	0.00	0.00	0.00	0	0
Golf Course	6	FALSE	0.00	0.00	0.00	0	0
Golf Course	7	FALSE	0.00	0.00	0.00	0	0
Golf Course	8	FALSE	0.00	0.00	0.00	0	0
Golf Course	9	FALSE	0.00	0.00	0.00	0	0
Golf Course	10	FALSE	0.00	0.00	0.00	0	0
Golf Course	11	FALSE	0.00	0.00	0.00	0	0
Golf Course	12	FALSE	0.00	0.00	0.00	0	0
Golf Course	13	FALSE	0.00	0.00	0.00	0	0
Golf Course	14	FALSE	0.00	0.00	0.00	0	0
Golf Course	15	FALSE	0.00	0.00	0.00	0	0
Golf Course	1	TRUE	0.00	0.00	0.00	0	0
Golf Course	2	TRUE	0.00	0.00	0.00	0	0
Golf Course	3	TRUE	0.00	0.00	0.00	0	0
Golf Course	4	TRUE	0.00	0.00	0.00	0	0
Golf Course	5	TRUE	0.00	0.00	0.00	0	0
Golf Course	6	TRUE	0.00	0.00	0.00	0	0
Golf Course	7	TRUE	0.00	0.00	0.00	0	0
Golf Course	8	TRUE	0.00	0.00	0.00	0	0
Golf Course	9	TRUE	0.00	0.00	0.00	0	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Golf Course	10	TRUE	0.00	0.00	0.00	0	0
Golf Course	11	TRUE	0.00	0.00	0.00	0	0
Golf Course	12	TRUE	0.00	0.00	0.00	0	0
Golf Course	13	TRUE	0.00	0.00	0.00	0	0
Golf Course	14	TRUE	0.00	0.00	0.00	0	0
Golf Course	15	TRUE	0.00	0.00	0.00	0	0
Government (Civic Center)	1	FALSE	3.25	3.98	3.45	19	0
Government (Civic Center)	2	FALSE	2.87	3.62	3.17	16	0
Government (Civic Center)	3	FALSE	2.34	3.58	2.92	13	0
Government (Civic Center)	4	FALSE	5.45	7.84	3.88	16	0
Government (Civic Center)	5	FALSE	3.66	4.80	3.58	18	1
Government (Civic Center)	6	FALSE	4.44	5.75	3.71	12	1
Government (Civic Center)	7	FALSE	2.58	3.31	3.77	16	1
Government (Civic Center)	8	FALSE	4.21	4.94	4.34	9	1
Government (Civic Center)	9	FALSE	4.11	4.62	3.77	10	0
Government (Civic Center)	10	FALSE	2.74	2.79	3.66	3	0
Government (Civic Center)	11	FALSE	4.11	4.62	3.77	10	0
Government (Civic Center)	12	FALSE	4.11	4.62	3.77	10	0
Government (Civic Center)	13	FALSE	4.16	4.97	3.81	16	4
Government (Civic Center)	14	FALSE	3.25	3.98	3.45	19	0
Government (Civic Center)	15	FALSE	2.74	2.79	3.66	3	0
Government (Civic Center)	1	TRUE	5.02	3.98	4.24	24	0
Government (Civic Center)	2	TRUE	4.20	3.62	3.88	20	0
Government (Civic Center)	3	TRUE	3.45	3.58	3.58	15	0
Government (Civic Center)	4	TRUE	8.01	7.84	4.72	20	0
Government (Civic Center)	5	TRUE	5.42	4.80	4.34	23	1
Government (Civic Center)	6	TRUE	6.76	5.75	4.50	15	1
Government (Civic Center)	7	TRUE	3.78	3.31	4.58	20	1
Government (Civic Center)	8	TRUE	6.17	4.94	5.27	10	1
Government (Civic Center)	9	TRUE	5.99	4.62	4.63	12	0
Government (Civic Center)	10	TRUE	4.03	2.79	4.45	4	0
Government (Civic Center)	11	TRUE	5.99	4.62	4.63	12	0
Government (Civic Center)	12	TRUE	5.99	4.62	4.63	12	0
Government (Civic Center)	13	TRUE	6.14	4.97	4.63	19	4
Government (Civic Center)	14	TRUE	5.02	3.98	4.24	24	0
Government (Civic Center)	15	TRUE	4.03	2.79	4.45	4	0
Government Office Building	1	FALSE	3.25	3.98	3.45	19	0
Government Office Building	2	FALSE	2.87	3.62	3.17	16	0
Government Office Building	3	FALSE	2.34	3.58	2.92	13	0
Government Office Building	4	FALSE	5.45	7.84	3.88	16	0
Government Office Building	5	FALSE	3.66	4.80	3.58	18	1
Government Office Building	6	FALSE	4.44	5.75	3.71	12	1
Government Office Building	7	FALSE	2.58	3.31	3.77	16	1
Government Office Building	8	FALSE	4.21	4.94	4.34	9	1
Government Office Building	9	FALSE	4.11	4.62	3.77	10	0
Government Office Building	10	FALSE	2.74	2.79	3.66	3	0
Government Office Building	11	FALSE	4.11	4.62	3.77	10	0
Government Office Building	12	FALSE	4.11	4.62	3.77	10	0
Government Office Building	13	FALSE	4.16	4.97	3.81	16	4
Government Office Building	14	FALSE	3.25	3.98	3.45	19	0
Government Office Building	15	FALSE	2.74	2.79	3.66	3	0
Government Office Building	1	TRUE	5.02	3.98	4.24	24	0
Government Office Building	2	TRUE	4.20	3.62	3.88	20	0
Government Office Building	3	TRUE	3.45	3.58	3.58	15	0
Government Office Building	4	TRUE	8.01	7.84	4.72	20	0
Government Office Building	5	TRUE	5.42	4.80	4.34	23	1
Government Office Building	6	TRUE	6.76	5.75	4.50	15	1
Government Office Building	7	TRUE	3.78	3.31	4.58	20	1
Government Office Building	8	TRUE	6.17	4.94	5.27	10	1
Government Office Building	9	TRUE	5.99	4.62	4.63	12	0
Government Office Building	10	TRUE	4.03	2.79	4.45	4	0
Government Office Building	11	TRUE	5.99	4.62	4.63	12	0
Government Office Building	12	TRUE	5.99	4.62	4.63	12	0
Government Office Building	13	TRUE	6.14	4.97	4.63	19	4
Government Office Building	14	TRUE	5.02	3.98	4.24	24	0
Government Office Building	15	TRUE	4.03	2.79	4.45	4	0
Hardware/Paint Store	1	FALSE	4.47	2.81	5.70	7	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Hardware/Paint Store	2	FALSE	3.48	1.98	5.91	11	0
Hardware/Paint Store	3	FALSE	1.91	2.30	3.71	9	2
Hardware/Paint Store	4	FALSE	2.46	2.68	5.25	2	0
Hardware/Paint Store	5	FALSE	2.00	3.36	4.88	4	1
Hardware/Paint Store	6	FALSE	2.91	2.98	5.33	4	1
Hardware/Paint Store	7	FALSE	2.82	2.49	4.53	6	0
Hardware/Paint Store	8	FALSE	2.62	2.80	5.71	1	1
Hardware/Paint Store	9	FALSE	3.58	3.23	6.26	1	0
Hardware/Paint Store	10	FALSE	4.09	2.44	5.61	2	0
Hardware/Paint Store	11	FALSE	3.58	3.23	6.26	1	0
Hardware/Paint Store	12	FALSE	3.58	3.23	6.26	1	0
Hardware/Paint Store	13	FALSE	2.84	3.16	6.22	1	1
Hardware/Paint Store	14	FALSE	4.47	2.81	5.70	7	0
Hardware/Paint Store	15	FALSE	4.09	2.44	5.61	2	0
Hardware/Paint Store	1	TRUE	6.81	2.81	6.86	9	0
Hardware/Paint Store	2	TRUE	4.97	1.98	7.17	14	0
Hardware/Paint Store	3	TRUE	2.77	2.30	4.53	10	2
Hardware/Paint Store	4	TRUE	3.55	2.68	6.02	3	0
Hardware/Paint Store	5	TRUE	2.90	3.36	5.88	5	1
Hardware/Paint Store	6	TRUE	4.20	2.98	6.45	6	1
Hardware/Paint Store	7	TRUE	4.12	2.49	5.50	7	0
Hardware/Paint Store	8	TRUE	3.79	2.80	6.85	1	1
Hardware/Paint Store	9	TRUE	5.17	3.23	7.56	1	0
Hardware/Paint Store	10	TRUE	5.95	2.44	8.20	2	0
Hardware/Paint Store	11	TRUE	5.17	3.23	7.56	1	0
Hardware/Paint Store	12	TRUE	5.17	3.23	7.56	1	0
Hardware/Paint Store	13	TRUE	4.13	3.16	7.50	1	1
Hardware/Paint Store	14	TRUE	6.81	2.81	6.86	9	0
Hardware/Paint Store	15	TRUE	5.95	2.44	8.20	2	0
Health Club	1	FALSE	0.56	1.85	1.81	3	0
Health Club	2	FALSE	1.48	4.20	2.60	18	0
Health Club	3	FALSE	1.75	4.16	2.70	17	4
Health Club	4	FALSE	1.32	3.70	3.08	20	7
Health Club	5	FALSE	1.08	3.36	2.99	18	7
Health Club	6	FALSE	3.05	7.20	4.57	23	12
Health Club	7	FALSE	0.36	1.31	0.65	17	0
Health Club	8	FALSE	1.45	3.83	2.99	14	7
Health Club	9	FALSE	2.01	5.75	3.10	14	4
Health Club	10	FALSE	1.97	5.02	2.93	15	17
Health Club	11	FALSE	2.01	5.75	3.10	14	4
Health Club	12	FALSE	2.01	5.75	3.10	14	4
Health Club	13	FALSE	1.08	4.27	2.83	4	7
Health Club	14	FALSE	0.56	1.85	1.81	3	0
Health Club	15	FALSE	1.97	5.02	2.93	15	17
Health Club	1	TRUE	0.83	1.85	2.28	4	0
Health Club	2	TRUE	2.17	4.20	3.26	22	0
Health Club	3	TRUE	2.52	4.16	3.35	20	4
Health Club	4	TRUE	1.93	3.70	3.80	23	7
Health Club	5	TRUE	1.59	3.36	3.70	20	7
Health Club	6	TRUE	4.47	7.20	5.65	26	12
Health Club	7	TRUE	0.51	1.31	0.91	19	0
Health Club	8	TRUE	2.12	3.83	3.70	15	7
Health Club	9	TRUE	2.94	5.75	3.85	15	4
Health Club	10	TRUE	2.89	5.02	3.62	17	17
Health Club	11	TRUE	2.94	5.75	3.85	15	4
Health Club	12	TRUE	2.94	5.75	3.85	15	4
Health Club	13	TRUE	1.59	4.27	3.52	5	7
Health Club	14	TRUE	0.83	1.85	2.28	4	0
Health Club	15	TRUE	2.89	5.02	3.62	17	17
High School	1	FALSE	1.45	1.48	3.69	13	1
High School	2	FALSE	1.68	1.42	2.34	9	0
High School	3	FALSE	1.92	1.89	2.99	23	2
High School	4	FALSE	1.39	1.28	2.55	17	1
High School	5	FALSE	0.59	1.27	2.51	15	2
High School	6	FALSE	1.83	2.17	3.10	14	1
High School	7	FALSE	1.74	1.95	3.44	10	0
High School	8	FALSE	1.69	1.51	2.68	11	1

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
High School	9	FALSE	1.56	1.59	2.59	9	1
High School	10	FALSE	2.49	1.49	3.03	7	2
High School	11	FALSE	1.56	1.59	2.59	9	1
High School	12	FALSE	1.56	1.59	2.59	9	1
High School	13	FALSE	1.36	1.18	2.54	5	0
High School	14	FALSE	1.45	1.48	3.69	13	1
High School	15	FALSE	2.49	1.49	3.03	7	2
High School	1	TRUE	2.18	1.48	4.55	16	1
High School	2	TRUE	2.43	1.42	2.90	11	0
High School	3	TRUE	2.81	1.89	3.69	27	2
High School	4	TRUE	2.03	1.28	3.02	21	1
High School	5	TRUE	0.86	1.27	3.11	18	2
High School	6	TRUE	2.74	2.17	3.82	17	1
High School	7	TRUE	2.54	1.95	4.27	12	0
High School	8	TRUE	2.46	1.51	3.30	12	1
High School	9	TRUE	2.29	1.59	3.20	11	1
High School	10	TRUE	3.64	1.49	4.52	8	2
High School	11	TRUE	2.29	1.59	3.20	11	1
High School	12	TRUE	2.29	1.59	3.20	11	1
High School	13	TRUE	2.03	1.18	3.14	6	0
High School	14	TRUE	2.18	1.48	4.55	16	1
High School	15	TRUE	3.64	1.49	4.52	8	2
High Turnover (Sit Down Restaurant)	1	FALSE	3.57	15.83	4.74	27	89
High Turnover (Sit Down Restaurant)	2	FALSE	5.41	17.72	7.57	40	69
High Turnover (Sit Down Restaurant)	3	FALSE	5.85	16.25	6.17	35	175
High Turnover (Sit Down Restaurant)	4	FALSE	4.52	22.30	5.35	60	147
High Turnover (Sit Down Restaurant)	5	FALSE	2.38	20.97	5.34	40	128
High Turnover (Sit Down Restaurant)	6	FALSE	7.86	26.72	6.19	59	118
High Turnover (Sit Down Restaurant)	7	FALSE	6.97	20.65	5.04	18	81
High Turnover (Sit Down Restaurant)	8	FALSE	7.78	20.11	7.66	78	181
High Turnover (Sit Down Restaurant)	9	FALSE	7.24	28.16	7.87	43	188
High Turnover (Sit Down Restaurant)	10	FALSE	11.06	28.48	6.62	77	196
High Turnover (Sit Down Restaurant)	11	FALSE	7.24	28.16	7.87	43	188
High Turnover (Sit Down Restaurant)	12	FALSE	7.24	28.16	7.87	43	188
High Turnover (Sit Down Restaurant)	13	FALSE	7.35	23.69	6.78	36	138
High Turnover (Sit Down Restaurant)	14	FALSE	3.57	15.83	4.74	27	89
High Turnover (Sit Down Restaurant)	15	FALSE	11.06	28.48	6.62	77	196
High Turnover (Sit Down Restaurant)	1	TRUE	5.30	15.83	5.76	30	89
High Turnover (Sit Down Restaurant)	2	TRUE	7.80	17.72	9.18	45	69
High Turnover (Sit Down Restaurant)	3	TRUE	8.49	16.25	7.47	39	175
High Turnover (Sit Down Restaurant)	4	TRUE	6.58	22.30	6.25	65	147
High Turnover (Sit Down Restaurant)	5	TRUE	3.42	20.97	6.45	43	128
High Turnover (Sit Down Restaurant)	6	TRUE	11.47	26.72	7.44	65	118
High Turnover (Sit Down Restaurant)	7	TRUE	10.14	20.65	6.13	21	81
High Turnover (Sit Down Restaurant)	8	TRUE	11.27	20.11	9.20	84	181
High Turnover (Sit Down Restaurant)	9	TRUE	10.52	28.16	9.64	47	188
High Turnover (Sit Down Restaurant)	10	TRUE	16.13	28.48	9.51	84	196
High Turnover (Sit Down Restaurant)	11	TRUE	10.52	28.16	9.64	47	188
High Turnover (Sit Down Restaurant)	12	TRUE	10.52	28.16	9.64	47	188
High Turnover (Sit Down Restaurant)	13	TRUE	10.67	23.69	8.19	38	138
High Turnover (Sit Down Restaurant)	14	TRUE	5.30	15.83	5.76	30	89
High Turnover (Sit Down Restaurant)	15	TRUE	16.13	28.48	9.51	84	196
Home Improvement Superstore	1	FALSE	4.47	2.81	5.70	7	0
Home Improvement Superstore	2	FALSE	3.48	1.98	5.91	11	0
Home Improvement Superstore	3	FALSE	1.91	2.30	3.71	9	2
Home Improvement Superstore	4	FALSE	2.46	2.68	5.25	2	0
Home Improvement Superstore	5	FALSE	2.00	3.36	4.88	4	1
Home Improvement Superstore	6	FALSE	2.91	2.98	5.33	4	1
Home Improvement Superstore	7	FALSE	2.82	2.49	4.53	6	0
Home Improvement Superstore	8	FALSE	2.62	2.80	5.71	1	1
Home Improvement Superstore	9	FALSE	3.58	3.23	6.26	1	0
Home Improvement Superstore	10	FALSE	4.09	2.44	5.61	2	0
Home Improvement Superstore	11	FALSE	3.58	3.23	6.26	1	0
Home Improvement Superstore	12	FALSE	3.58	3.23	6.26	1	0
Home Improvement Superstore	13	FALSE	2.84	3.16	6.22	1	1
Home Improvement Superstore	14	FALSE	4.47	2.81	5.70	7	0
Home Improvement Superstore	15	FALSE	4.09	2.44	5.61	2	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Home Improvement Superstore	1	TRUE	6.81	2.81	6.86	9	0
Home Improvement Superstore	2	TRUE	4.97	1.98	7.17	14	0
Home Improvement Superstore	3	TRUE	2.77	2.30	4.53	10	2
Home Improvement Superstore	4	TRUE	3.55	2.68	6.02	3	0
Home Improvement Superstore	5	TRUE	2.90	3.36	5.88	5	1
Home Improvement Superstore	6	TRUE	4.20	2.98	6.45	6	1
Home Improvement Superstore	7	TRUE	4.12	2.49	5.50	7	0
Home Improvement Superstore	8	TRUE	3.79	2.80	6.85	1	1
Home Improvement Superstore	9	TRUE	5.17	3.23	7.56	1	0
Home Improvement Superstore	10	TRUE	5.95	2.44	8.20	2	0
Home Improvement Superstore	11	TRUE	5.17	3.23	7.56	1	0
Home Improvement Superstore	12	TRUE	5.17	3.23	7.56	1	0
Home Improvement Superstore	13	TRUE	4.13	3.16	7.50	1	1
Home Improvement Superstore	14	TRUE	6.81	2.81	6.86	9	0
Home Improvement Superstore	15	TRUE	5.95	2.44	8.20	2	0
Hospital	1	FALSE	3.85	5.35	3.41	9	0
Hospital	2	FALSE	4.85	5.64	4.53	60	24
Hospital	3	FALSE	4.99	3.96	3.65	34	8
Hospital	4	FALSE	8.08	6.46	4.83	92	17
Hospital	5	FALSE	5.78	5.52	4.23	84	16
Hospital	6	FALSE	8.20	6.17	4.98	57	10
Hospital	7	FALSE	3.71	4.96	3.98	24	2
Hospital	8	FALSE	6.26	4.33	4.50	51	9
Hospital	9	FALSE	8.89	7.55	5.31	54	10
Hospital	10	FALSE	7.45	5.56	4.52	69	6
Hospital	11	FALSE	8.89	7.55	5.31	54	10
Hospital	12	FALSE	8.89	7.55	5.31	54	10
Hospital	13	FALSE	5.69	5.87	4.52	51	7
Hospital	14	FALSE	3.85	5.35	3.41	9	0
Hospital	15	FALSE	7.45	5.56	4.52	69	6
Hospital	1	TRUE	4.83	5.35	3.91	11	0
Hospital	2	TRUE	6.11	5.64	5.11	64	24
Hospital	3	TRUE	6.26	3.96	4.17	38	8
Hospital	4	TRUE	10.23	6.46	5.43	101	17
Hospital	5	TRUE	7.39	5.52	4.78	93	16
Hospital	6	TRUE	10.35	6.17	5.59	64	10
Hospital	7	TRUE	4.70	4.96	4.55	28	2
Hospital	8	TRUE	7.95	4.33	5.09	56	9
Hospital	9	TRUE	11.27	7.55	5.99	62	10
Hospital	10	TRUE	9.50	5.56	5.13	77	6
Hospital	11	TRUE	11.27	7.55	5.99	62	10
Hospital	12	TRUE	11.27	7.55	5.99	62	10
Hospital	13	TRUE	7.21	5.87	5.09	54	7
Hospital	14	TRUE	4.83	5.35	3.91	11	0
Hospital	15	TRUE	9.50	5.56	5.13	77	6
Hotel	1	FALSE	1.81	2.87	2.57	21	0
Hotel	2	FALSE	1.67	1.37	3.38	26	0
Hotel	3	FALSE	3.69	2.30	1.51	18	7
Hotel	4	FALSE	1.83	3.22	2.35	39	5
Hotel	5	FALSE	1.95	2.85	3.13	29	7
Hotel	6	FALSE	3.21	3.33	2.88	33	6
Hotel	7	FALSE	4.06	3.68	3.80	33	2
Hotel	8	FALSE	2.48	3.24	3.03	29	5
Hotel	9	FALSE	2.28	2.89	2.14	20	4
Hotel	10	FALSE	5.78	6.23	5.44	55	5
Hotel	11	FALSE	2.28	2.89	2.14	20	4
Hotel	12	FALSE	2.28	2.89	2.14	20	4
Hotel	13	FALSE	4.27	3.67	4.50	47	11
Hotel	14	FALSE	1.81	2.87	2.57	21	0
Hotel	15	FALSE	5.78	6.23	5.44	55	5
Hotel	1	TRUE	2.80	2.87	3.23	22	0
Hotel	2	TRUE	2.68	1.37	4.22	28	0
Hotel	3	TRUE	5.38	2.30	1.93	20	7
Hotel	4	TRUE	2.81	3.22	2.93	42	5
Hotel	5	TRUE	2.95	2.85	3.82	32	7
Hotel	6	TRUE	4.91	3.33	3.53	36	6
Hotel	7	TRUE	5.99	3.68	4.67	36	2

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Hotel	8	TRUE	3.64	3.24	3.71	31	5
Hotel	9	TRUE	3.50	2.89	2.67	22	4
Hotel	10	TRUE	8.54	6.23	6.57	63	5
Hotel	11	TRUE	3.50	2.89	2.67	22	4
Hotel	12	TRUE	3.50	2.89	2.67	22	4
Hotel	13	TRUE	6.29	3.67	5.43	50	11
Hotel	14	TRUE	2.80	2.87	3.23	22	0
Hotel	15	TRUE	8.54	6.23	6.57	63	5
Industrial Park	1	FALSE	3.25	3.98	3.45	19	0
Industrial Park	2	FALSE	2.87	3.62	3.17	16	0
Industrial Park	3	FALSE	2.34	3.58	2.92	13	0
Industrial Park	4	FALSE	5.45	7.84	3.88	16	0
Industrial Park	5	FALSE	3.66	4.80	3.58	18	1
Industrial Park	6	FALSE	4.44	5.75	3.71	12	1
Industrial Park	7	FALSE	2.58	3.31	3.77	16	1
Industrial Park	8	FALSE	4.21	4.94	4.34	9	1
Industrial Park	9	FALSE	4.11	4.62	3.77	10	0
Industrial Park	10	FALSE	2.74	2.79	3.66	3	0
Industrial Park	11	FALSE	4.11	4.62	3.77	10	0
Industrial Park	12	FALSE	4.11	4.62	3.77	10	0
Industrial Park	13	FALSE	4.16	4.97	3.81	16	4
Industrial Park	14	FALSE	3.25	3.98	3.45	19	0
Industrial Park	15	FALSE	2.74	2.79	3.66	3	0
Industrial Park	1	TRUE	5.02	3.98	4.24	24	0
Industrial Park	2	TRUE	4.20	3.62	3.88	20	0
Industrial Park	3	TRUE	3.45	3.58	3.58	15	0
Industrial Park	4	TRUE	8.01	7.84	4.72	20	0
Industrial Park	5	TRUE	5.42	4.80	4.34	23	1
Industrial Park	6	TRUE	6.76	5.75	4.50	15	1
Industrial Park	7	TRUE	3.78	3.31	4.58	20	1
Industrial Park	8	TRUE	6.17	4.94	5.27	10	1
Industrial Park	9	TRUE	5.99	4.62	4.63	12	0
Industrial Park	10	TRUE	4.03	2.79	4.45	4	0
Industrial Park	11	TRUE	5.99	4.62	4.63	12	0
Industrial Park	12	TRUE	5.99	4.62	4.63	12	0
Industrial Park	13	TRUE	6.14	4.97	4.63	19	4
Industrial Park	14	TRUE	5.02	3.98	4.24	24	0
Industrial Park	15	TRUE	4.03	2.79	4.45	4	0
Junior College (2yr)	1	FALSE	2.32	1.73	5.76	21	0
Junior College (2yr)	2	FALSE	3.36	0.34	4.63	40	0
Junior College (2yr)	3	FALSE	2.65	2.63	5.82	21	1
Junior College (2yr)	4	FALSE	2.44	2.27	2.91	21	3
Junior College (2yr)	5	FALSE	3.70	3.15	2.93	33	1
Junior College (2yr)	6	FALSE	3.01	2.09	3.03	26	0
Junior College (2yr)	7	FALSE	3.24	6.44	5.83	51	0
Junior College (2yr)	8	FALSE	4.46	2.72	4.64	10	5
Junior College (2yr)	9	FALSE	2.71	3.59	3.39	26	1
Junior College (2yr)	10	FALSE	1.76	1.92	3.99	14	0
Junior College (2yr)	11	FALSE	2.71	3.59	3.39	26	1
Junior College (2yr)	12	FALSE	2.71	3.59	3.39	26	1
Junior College (2yr)	13	FALSE	2.38	2.69	3.53	31	5
Junior College (2yr)	14	FALSE	2.32	1.73	5.76	21	0
Junior College (2yr)	15	FALSE	1.76	1.92	3.99	14	0
Junior College (2yr)	1	TRUE	3.42	1.73	7.02	25	0
Junior College (2yr)	2	TRUE	5.14	0.34	5.63	50	0
Junior College (2yr)	3	TRUE	3.94	2.63	7.00	25	1
Junior College (2yr)	4	TRUE	3.49	2.27	3.58	24	3
Junior College (2yr)	5	TRUE	5.41	3.15	3.61	40	1
Junior College (2yr)	6	TRUE	4.47	2.09	3.75	31	0
Junior College (2yr)	7	TRUE	4.74	6.44	7.07	59	0
Junior College (2yr)	8	TRUE	7.10	2.72	5.59	12	5
Junior College (2yr)	9	TRUE	4.07	3.59	4.14	31	1
Junior College (2yr)	10	TRUE	2.64	1.92	4.86	17	0
Junior College (2yr)	11	TRUE	4.07	3.59	4.14	31	1
Junior College (2yr)	12	TRUE	4.07	3.59	4.14	31	1
Junior College (2yr)	13	TRUE	3.73	2.69	4.35	36	5
Junior College (2yr)	14	TRUE	3.42	1.73	7.02	25	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Junior College (2yr)	15	TRUE	2.64	1.92	4.86	17	0
Junior High School	1	FALSE	1.45	1.48	3.69	13	1
Junior High School	2	FALSE	1.68	1.42	2.34	9	0
Junior High School	3	FALSE	1.92	1.89	2.99	23	2
Junior High School	4	FALSE	1.39	1.28	2.55	17	1
Junior High School	5	FALSE	0.59	1.27	2.51	15	2
Junior High School	6	FALSE	1.83	2.17	3.10	14	1
Junior High School	7	FALSE	1.74	1.95	3.44	10	0
Junior High School	8	FALSE	1.69	1.51	2.68	11	1
Junior High School	9	FALSE	1.56	1.59	2.59	9	1
Junior High School	10	FALSE	2.49	1.49	3.03	7	2
Junior High School	11	FALSE	1.56	1.59	2.59	9	1
Junior High School	12	FALSE	1.56	1.59	2.59	9	1
Junior High School	13	FALSE	1.36	1.18	2.54	5	0
Junior High School	14	FALSE	1.45	1.48	3.69	13	1
Junior High School	15	FALSE	2.49	1.49	3.03	7	2
Junior High School	1	TRUE	2.18	1.48	4.55	16	1
Junior High School	2	TRUE	2.43	1.42	2.90	11	0
Junior High School	3	TRUE	2.81	1.89	3.69	27	2
Junior High School	4	TRUE	2.03	1.28	3.02	21	1
Junior High School	5	TRUE	0.86	1.27	3.11	18	2
Junior High School	6	TRUE	2.74	2.17	3.82	17	1
Junior High School	7	TRUE	2.54	1.95	4.27	12	0
Junior High School	8	TRUE	2.46	1.51	3.30	12	1
Junior High School	9	TRUE	2.29	1.59	3.20	11	1
Junior High School	10	TRUE	3.64	1.49	4.52	8	2
Junior High School	11	TRUE	2.29	1.59	3.20	11	1
Junior High School	12	TRUE	2.29	1.59	3.20	11	1
Junior High School	13	TRUE	2.03	1.18	3.14	6	0
Junior High School	14	TRUE	2.18	1.48	4.55	16	1
Junior High School	15	TRUE	3.64	1.49	4.52	8	2
Library	1	FALSE	0.56	1.85	1.81	3	0
Library	2	FALSE	1.48	4.20	2.60	18	0
Library	3	FALSE	1.75	4.16	2.70	17	4
Library	4	FALSE	1.32	3.70	3.08	20	7
Library	5	FALSE	1.08	3.36	2.99	18	7
Library	6	FALSE	3.05	7.20	4.57	23	12
Library	7	FALSE	0.36	1.31	0.65	17	0
Library	8	FALSE	1.45	3.83	2.99	14	7
Library	9	FALSE	2.01	5.75	3.10	14	4
Library	10	FALSE	1.97	5.02	2.93	15	17
Library	11	FALSE	2.01	5.75	3.10	14	4
Library	12	FALSE	2.01	5.75	3.10	14	4
Library	13	FALSE	1.08	4.27	2.83	4	7
Library	14	FALSE	0.56	1.85	1.81	3	0
Library	15	FALSE	1.97	5.02	2.93	15	17
Library	1	TRUE	0.83	1.85	2.28	4	0
Library	2	TRUE	2.17	4.20	3.26	22	0
Library	3	TRUE	2.52	4.16	3.35	20	4
Library	4	TRUE	1.93	3.70	3.80	23	7
Library	5	TRUE	1.59	3.36	3.70	20	7
Library	6	TRUE	4.47	7.20	5.65	26	12
Library	7	TRUE	0.51	1.31	0.91	19	0
Library	8	TRUE	2.12	3.83	3.70	15	7
Library	9	TRUE	2.94	5.75	3.85	15	4
Library	10	TRUE	2.89	5.02	3.62	17	17
Library	11	TRUE	2.94	5.75	3.85	15	4
Library	12	TRUE	2.94	5.75	3.85	15	4
Library	13	TRUE	1.59	4.27	3.52	5	7
Library	14	TRUE	0.83	1.85	2.28	4	0
Library	15	TRUE	2.89	5.02	3.62	17	17
Manufacturing	1	FALSE	0.56	1.85	1.81	3	0
Manufacturing	2	FALSE	1.48	4.20	2.60	18	0
Manufacturing	3	FALSE	1.75	4.16	2.70	17	4
Manufacturing	4	FALSE	1.32	3.70	3.08	20	7
Manufacturing	5	FALSE	1.08	3.36	2.99	18	7
Manufacturing	6	FALSE	3.05	7.20	4.57	23	12

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Manufacturing	7	FALSE	0.36	1.31	0.65	17	0
Manufacturing	8	FALSE	1.45	3.83	2.99	14	7
Manufacturing	9	FALSE	2.01	5.75	3.10	14	4
Manufacturing	10	FALSE	1.97	5.02	2.93	15	17
Manufacturing	11	FALSE	2.01	5.75	3.10	14	4
Manufacturing	12	FALSE	2.01	5.75	3.10	14	4
Manufacturing	13	FALSE	1.08	4.27	2.83	4	7
Manufacturing	14	FALSE	0.56	1.85	1.81	3	0
Manufacturing	15	FALSE	1.97	5.02	2.93	15	17
Manufacturing	1	TRUE	0.83	1.85	2.28	4	0
Manufacturing	2	TRUE	2.17	4.20	3.26	22	0
Manufacturing	3	TRUE	2.52	4.16	3.35	20	4
Manufacturing	4	TRUE	1.93	3.70	3.80	23	7
Manufacturing	5	TRUE	1.59	3.36	3.70	20	7
Manufacturing	6	TRUE	4.47	7.20	5.65	26	12
Manufacturing	7	TRUE	0.51	1.31	0.91	19	0
Manufacturing	8	TRUE	2.12	3.83	3.70	15	7
Manufacturing	9	TRUE	2.94	5.75	3.85	15	4
Manufacturing	10	TRUE	2.89	5.02	3.62	17	17
Manufacturing	11	TRUE	2.94	5.75	3.85	15	4
Manufacturing	12	TRUE	2.94	5.75	3.85	15	4
Manufacturing	13	TRUE	1.59	4.27	3.52	5	7
Manufacturing	14	TRUE	0.83	1.85	2.28	4	0
Manufacturing	15	TRUE	2.89	5.02	3.62	17	17
Medical Office Building	1	FALSE	3.25	3.98	3.45	19	0
Medical Office Building	2	FALSE	2.87	3.62	3.17	16	0
Medical Office Building	3	FALSE	2.34	3.58	2.92	13	0
Medical Office Building	4	FALSE	5.45	7.84	3.88	16	0
Medical Office Building	5	FALSE	3.66	4.80	3.58	18	1
Medical Office Building	6	FALSE	4.44	5.75	3.71	12	1
Medical Office Building	7	FALSE	2.58	3.31	3.77	16	1
Medical Office Building	8	FALSE	4.21	4.94	4.34	9	1
Medical Office Building	9	FALSE	4.11	4.62	3.77	10	0
Medical Office Building	10	FALSE	2.74	2.79	3.66	3	0
Medical Office Building	11	FALSE	4.11	4.62	3.77	10	0
Medical Office Building	12	FALSE	4.11	4.62	3.77	10	0
Medical Office Building	13	FALSE	4.16	4.97	3.81	16	4
Medical Office Building	14	FALSE	3.25	3.98	3.45	19	0
Medical Office Building	15	FALSE	2.74	2.79	3.66	3	0
Medical Office Building	1	TRUE	5.02	3.98	4.24	24	0
Medical Office Building	2	TRUE	4.20	3.62	3.88	20	0
Medical Office Building	3	TRUE	3.45	3.58	3.58	15	0
Medical Office Building	4	TRUE	8.01	7.84	4.72	20	0
Medical Office Building	5	TRUE	5.42	4.80	4.34	23	1
Medical Office Building	6	TRUE	6.76	5.75	4.50	15	1
Medical Office Building	7	TRUE	3.78	3.31	4.58	20	1
Medical Office Building	8	TRUE	6.17	4.94	5.27	10	1
Medical Office Building	9	TRUE	5.99	4.62	4.63	12	0
Medical Office Building	10	TRUE	4.03	2.79	4.45	4	0
Medical Office Building	11	TRUE	5.99	4.62	4.63	12	0
Medical Office Building	12	TRUE	5.99	4.62	4.63	12	0
Medical Office Building	13	TRUE	6.14	4.97	4.63	19	4
Medical Office Building	14	TRUE	5.02	3.98	4.24	24	0
Medical Office Building	15	TRUE	4.03	2.79	4.45	4	0
Mobile Home Park	1	FALSE	146.59	4004.74	1038.60	2444	1599
Mobile Home Park	2	FALSE	83.32	4004.74	1038.60	4526	2687
Mobile Home Park	3	FALSE	140.03	4004.74	1038.60	11982	3723
Mobile Home Park	4	FALSE	65.05	4004.74	1038.60	12538	3155
Mobile Home Park	5	FALSE	39.50	4004.74	1038.60	17941	2615
Mobile Home Park	6	FALSE	83.32	4004.74	1038.60	4526	2687
Mobile Home Park	7	FALSE	119.02	4004.74	1038.60	14000	4769
Mobile Home Park	8	FALSE	58.51	4004.74	1038.60	14640	5516
Mobile Home Park	9	FALSE	46.57	4004.74	1038.60	10498	6384
Mobile Home Park	10	FALSE	164.88	4004.74	1038.60	16338	6030
Mobile Home Park	11	FALSE	37.21	4004.74	1038.60	1684	4831
Mobile Home Park	12	FALSE	89.04	4004.74	1038.60	21357	6281
Mobile Home Park	13	FALSE	80.03	4004.74	1038.60	17139	4180

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Mobile Home Park	14	FALSE	146.59	4004.74	1038.60	2444	1599
Mobile Home Park	15	FALSE	164.88	4004.74	1038.60	16338	6030
Mobile Home Park	1	TRUE	598.69	3335.73	1038.60	3079	2103
Mobile Home Park	2	TRUE	755.88	3321.27	1038.60	5701	2103
Mobile Home Park	3	TRUE	964.74	3329.98	1038.60	15033	2174
Mobile Home Park	4	TRUE	671.32	3321.27	1038.60	15794	2103
Mobile Home Park	5	TRUE	507.33	3321.27	1038.60	22600	2103
Mobile Home Park	6	TRUE	755.88	3321.27	1038.60	5701	2103
Mobile Home Park	7	TRUE	823.21	3322.99	1038.60	17433	2343
Mobile Home Park	8	TRUE	749.49	3321.27	1038.60	18441	2103
Mobile Home Park	9	TRUE	667.48	3321.27	1038.60	13224	2103
Mobile Home Park	10	TRUE	1211.87	3321.27	1038.60	20581	2103
Mobile Home Park	11	TRUE	634.34	3321.27	1038.60	2121	2103
Mobile Home Park	12	TRUE	959.26	3321.27	1038.60	26903	2103
Mobile Home Park	13	TRUE	825.64	3321.27	1038.60	21589	2103
Mobile Home Park	14	TRUE	598.69	3335.73	1038.60	3079	2103
Mobile Home Park	15	TRUE	1211.87	3321.27	1038.60	20581	2103
Motel	1	FALSE	1.81	2.87	2.57	21	0
Motel	2	FALSE	1.67	1.37	3.38	26	0
Motel	3	FALSE	3.69	2.30	1.51	18	7
Motel	4	FALSE	1.83	3.22	2.35	39	5
Motel	5	FALSE	1.95	2.85	3.13	29	7
Motel	6	FALSE	3.21	3.33	2.88	33	6
Motel	7	FALSE	4.06	3.68	3.80	33	2
Motel	8	FALSE	2.48	3.24	3.03	29	5
Motel	9	FALSE	2.28	2.89	2.14	20	4
Motel	10	FALSE	5.78	6.23	5.44	55	5
Motel	11	FALSE	2.28	2.89	2.14	20	4
Motel	12	FALSE	2.28	2.89	2.14	20	4
Motel	13	FALSE	4.27	3.67	4.50	47	11
Motel	14	FALSE	1.81	2.87	2.57	21	0
Motel	15	FALSE	5.78	6.23	5.44	55	5
Motel	1	TRUE	2.80	2.87	3.23	22	0
Motel	2	TRUE	2.68	1.37	4.22	28	0
Motel	3	TRUE	5.38	2.30	1.93	20	7
Motel	4	TRUE	2.81	3.22	2.93	42	5
Motel	5	TRUE	2.95	2.85	3.82	32	7
Motel	6	TRUE	4.91	3.33	3.53	36	6
Motel	7	TRUE	5.99	3.68	4.67	36	2
Motel	8	TRUE	3.64	3.24	3.71	31	5
Motel	9	TRUE	3.50	2.89	2.67	22	4
Motel	10	TRUE	8.54	6.23	6.57	63	5
Motel	11	TRUE	3.50	2.89	2.67	22	4
Motel	12	TRUE	3.50	2.89	2.67	22	4
Motel	13	TRUE	6.29	3.67	5.43	50	11
Motel	14	TRUE	2.80	2.87	3.23	22	0
Motel	15	TRUE	8.54	6.23	6.57	63	5
Movie Theater (No Matinee)	1	FALSE	0.56	1.85	1.81	3	0
Movie Theater (No Matinee)	2	FALSE	1.48	4.20	2.60	18	0
Movie Theater (No Matinee)	3	FALSE	1.75	4.16	2.70	17	4
Movie Theater (No Matinee)	4	FALSE	1.32	3.70	3.08	20	7
Movie Theater (No Matinee)	5	FALSE	1.08	3.36	2.99	18	7
Movie Theater (No Matinee)	6	FALSE	3.05	7.20	4.57	23	12
Movie Theater (No Matinee)	7	FALSE	0.36	1.31	0.65	17	0
Movie Theater (No Matinee)	8	FALSE	1.45	3.83	2.99	14	7
Movie Theater (No Matinee)	9	FALSE	2.01	5.75	3.10	14	4
Movie Theater (No Matinee)	10	FALSE	1.97	5.02	2.93	15	17
Movie Theater (No Matinee)	11	FALSE	2.01	5.75	3.10	14	4
Movie Theater (No Matinee)	12	FALSE	2.01	5.75	3.10	14	4
Movie Theater (No Matinee)	13	FALSE	1.08	4.27	2.83	4	7
Movie Theater (No Matinee)	14	FALSE	0.56	1.85	1.81	3	0
Movie Theater (No Matinee)	15	FALSE	1.97	5.02	2.93	15	17
Movie Theater (No Matinee)	1	TRUE	0.83	1.85	2.28	4	0
Movie Theater (No Matinee)	2	TRUE	2.17	4.20	3.26	22	0
Movie Theater (No Matinee)	3	TRUE	2.52	4.16	3.35	20	4
Movie Theater (No Matinee)	4	TRUE	1.93	3.70	3.80	23	7
Movie Theater (No Matinee)	5	TRUE	1.59	3.36	3.70	20	7

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Movie Theater (No Matinee)	6	TRUE	4.47	7.20	5.65	26	12
Movie Theater (No Matinee)	7	TRUE	0.51	1.31	0.91	19	0
Movie Theater (No Matinee)	8	TRUE	2.12	3.83	3.70	15	7
Movie Theater (No Matinee)	9	TRUE	2.94	5.75	3.85	15	4
Movie Theater (No Matinee)	10	TRUE	2.89	5.02	3.62	17	17
Movie Theater (No Matinee)	11	TRUE	2.94	5.75	3.85	15	4
Movie Theater (No Matinee)	12	TRUE	2.94	5.75	3.85	15	4
Movie Theater (No Matinee)	13	TRUE	1.59	4.27	3.52	5	7
Movie Theater (No Matinee)	14	TRUE	0.83	1.85	2.28	4	0
Movie Theater (No Matinee)	15	TRUE	2.89	5.02	3.62	17	17
Office Park	1	FALSE	1.24	2.42	3.68	17	0
Office Park	2	FALSE	2.68	4.35	3.19	11	0
Office Park	3	FALSE	3.19	4.49	3.59	22	1
Office Park	4	FALSE	6.51	8.40	3.87	21	0
Office Park	5	FALSE	3.82	4.81	3.47	17	1
Office Park	6	FALSE	5.15	6.47	4.00	15	1
Office Park	7	FALSE	3.54	3.76	5.09	37	0
Office Park	8	FALSE	4.82	5.60	4.40	11	1
Office Park	9	FALSE	5.01	4.79	3.74	10	0
Office Park	10	FALSE	2.74	2.60	4.24	3	0
Office Park	11	FALSE	5.01	4.79	3.74	10	0
Office Park	12	FALSE	5.01	4.79	3.74	10	0
Office Park	13	FALSE	5.23	6.01	3.91	25	7
Office Park	14	FALSE	1.24	2.42	3.68	17	0
Office Park	15	FALSE	2.74	2.60	4.24	3	0
Office Park	1	TRUE	1.78	2.42	4.48	21	0
Office Park	2	TRUE	3.91	4.35	3.89	13	0
Office Park	3	TRUE	4.73	4.49	4.39	26	1
Office Park	4	TRUE	9.54	8.40	4.71	26	0
Office Park	5	TRUE	5.65	4.81	4.21	21	1
Office Park	6	TRUE	7.89	6.47	4.84	18	1
Office Park	7	TRUE	5.26	3.76	6.13	44	0
Office Park	8	TRUE	7.05	5.60	5.32	13	1
Office Park	9	TRUE	7.30	4.79	4.56	12	0
Office Park	10	TRUE	4.01	2.60	5.13	4	0
Office Park	11	TRUE	7.30	4.79	4.56	12	0
Office Park	12	TRUE	7.30	4.79	4.56	12	0
Office Park	13	TRUE	7.71	6.01	4.74	31	7
Office Park	14	TRUE	1.78	2.42	4.48	21	0
Office Park	15	TRUE	4.01	2.60	5.13	4	0
Other Asphalt Surfaces	1	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	2	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	3	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	4	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	5	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	6	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	7	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	8	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	9	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	10	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	11	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	12	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	13	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	14	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	15	FALSE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	1	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	2	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	3	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	4	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	5	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	6	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	7	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	8	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	9	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	10	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	11	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	12	TRUE	0.00	0.00	0.00	0	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Other Asphalt Surfaces	13	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	14	TRUE	0.00	0.00	0.00	0	0
Other Asphalt Surfaces	15	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	1	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	2	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	3	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	4	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	5	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	6	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	7	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	8	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	9	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	10	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	11	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	12	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	13	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	14	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	15	FALSE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	1	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	2	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	3	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	4	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	5	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	6	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	7	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	8	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	9	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	10	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	11	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	12	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	13	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	14	TRUE	0.00	0.00	0.00	0	0
Other Non-Asphalt Surfaces	15	TRUE	0.00	0.00	0.00	0	0
Parking Lot	1	FALSE	0.00	0.00	0.35	0	0
Parking Lot	2	FALSE	0.00	0.00	0.35	0	0
Parking Lot	3	FALSE	0.00	0.00	0.35	0	0
Parking Lot	4	FALSE	0.00	0.00	0.35	0	0
Parking Lot	5	FALSE	0.00	0.00	0.35	0	0
Parking Lot	6	FALSE	0.00	0.00	0.35	0	0
Parking Lot	7	FALSE	0.00	0.00	0.35	0	0
Parking Lot	8	FALSE	0.00	0.00	0.35	0	0
Parking Lot	9	FALSE	0.00	0.00	0.35	0	0
Parking Lot	10	FALSE	0.00	0.00	0.35	0	0
Parking Lot	11	FALSE	0.00	0.00	0.35	0	0
Parking Lot	12	FALSE	0.00	0.00	0.35	0	0
Parking Lot	13	FALSE	0.00	0.00	0.35	0	0
Parking Lot	14	FALSE	0.00	0.00	0.35	0	0
Parking Lot	15	FALSE	0.00	0.00	0.35	0	0
Parking Lot	1	TRUE	0.00	0.00	0.88	0	0
Parking Lot	2	TRUE	0.00	0.00	0.88	0	0
Parking Lot	3	TRUE	0.00	0.00	0.88	0	0
Parking Lot	4	TRUE	0.00	0.00	0.88	0	0
Parking Lot	5	TRUE	0.00	0.00	0.88	0	0
Parking Lot	6	TRUE	0.00	0.00	0.88	0	0
Parking Lot	7	TRUE	0.00	0.00	0.88	0	0
Parking Lot	8	TRUE	0.00	0.00	0.88	0	0
Parking Lot	9	TRUE	0.00	0.00	0.88	0	0
Parking Lot	10	TRUE	0.00	0.00	0.88	0	0
Parking Lot	11	TRUE	0.00	0.00	0.88	0	0
Parking Lot	12	TRUE	0.00	0.00	0.88	0	0
Parking Lot	13	TRUE	0.00	0.00	0.88	0	0
Parking Lot	14	TRUE	0.00	0.00	0.88	0	0
Parking Lot	15	TRUE	0.00	0.00	0.88	0	0
Pharmacy/Drugstore w/o Drive Thru	1	FALSE	4.47	2.81	5.70	7	0
Pharmacy/Drugstore w/o Drive Thru	2	FALSE	3.48	1.98	5.91	11	0
Pharmacy/Drugstore w/o Drive Thru	3	FALSE	1.91	2.30	3.71	9	2
Pharmacy/Drugstore w/o Drive Thru	4	FALSE	2.46	2.68	5.25	2	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Pharmacy/Drugstore w/o Drive Thru	5	FALSE	2.00	3.36	4.88	4	1
Pharmacy/Drugstore w/o Drive Thru	6	FALSE	2.91	2.98	5.33	4	1
Pharmacy/Drugstore w/o Drive Thru	7	FALSE	2.82	2.49	4.53	6	0
Pharmacy/Drugstore w/o Drive Thru	8	FALSE	2.62	2.80	5.71	1	1
Pharmacy/Drugstore w/o Drive Thru	9	FALSE	3.58	3.23	6.26	1	0
Pharmacy/Drugstore w/o Drive Thru	10	FALSE	4.09	2.44	5.61	2	0
Pharmacy/Drugstore w/o Drive Thru	11	FALSE	3.58	3.23	6.26	1	0
Pharmacy/Drugstore w/o Drive Thru	12	FALSE	3.58	3.23	6.26	1	0
Pharmacy/Drugstore w/o Drive Thru	13	FALSE	2.84	3.16	6.22	1	1
Pharmacy/Drugstore w/o Drive Thru	14	FALSE	4.47	2.81	5.70	7	0
Pharmacy/Drugstore w/o Drive Thru	15	FALSE	4.09	2.44	5.61	2	0
Pharmacy/Drugstore w/o Drive Thru	1	TRUE	6.81	2.81	6.86	9	0
Pharmacy/Drugstore w/o Drive Thru	2	TRUE	4.97	1.98	7.17	14	0
Pharmacy/Drugstore w/o Drive Thru	3	TRUE	2.77	2.30	4.53	10	2
Pharmacy/Drugstore w/o Drive Thru	4	TRUE	3.55	2.68	6.02	3	0
Pharmacy/Drugstore w/o Drive Thru	5	TRUE	2.90	3.36	5.88	5	1
Pharmacy/Drugstore w/o Drive Thru	6	TRUE	4.20	2.98	6.45	6	1
Pharmacy/Drugstore w/o Drive Thru	7	TRUE	4.12	2.49	5.50	7	0
Pharmacy/Drugstore w/o Drive Thru	8	TRUE	3.79	2.80	6.85	1	1
Pharmacy/Drugstore w/o Drive Thru	9	TRUE	5.17	3.23	7.56	1	0
Pharmacy/Drugstore w/o Drive Thru	10	TRUE	5.95	2.44	8.20	2	0
Pharmacy/Drugstore w/o Drive Thru	11	TRUE	5.17	3.23	7.56	1	0
Pharmacy/Drugstore w/o Drive Thru	12	TRUE	5.17	3.23	7.56	1	0
Pharmacy/Drugstore w/o Drive Thru	13	TRUE	4.13	3.16	7.50	1	1
Pharmacy/Drugstore w/o Drive Thru	14	TRUE	6.81	2.81	6.86	9	0
Pharmacy/Drugstore w/o Drive Thru	15	TRUE	5.95	2.44	8.20	2	0
Pharmacy/Drugstore with Drive Thru	1	FALSE	4.47	2.81	5.70	7	0
Pharmacy/Drugstore with Drive Thru	2	FALSE	3.48	1.98	5.91	11	0
Pharmacy/Drugstore with Drive Thru	3	FALSE	1.91	2.30	3.71	9	2
Pharmacy/Drugstore with Drive Thru	4	FALSE	2.46	2.68	5.25	2	0
Pharmacy/Drugstore with Drive Thru	5	FALSE	2.00	3.36	4.88	4	1
Pharmacy/Drugstore with Drive Thru	6	FALSE	2.91	2.98	5.33	4	1
Pharmacy/Drugstore with Drive Thru	7	FALSE	2.82	2.49	4.53	6	0
Pharmacy/Drugstore with Drive Thru	8	FALSE	2.62	2.80	5.71	1	1
Pharmacy/Drugstore with Drive Thru	9	FALSE	3.58	3.23	6.26	1	0
Pharmacy/Drugstore with Drive Thru	10	FALSE	4.09	2.44	5.61	2	0
Pharmacy/Drugstore with Drive Thru	11	FALSE	3.58	3.23	6.26	1	0
Pharmacy/Drugstore with Drive Thru	12	FALSE	3.58	3.23	6.26	1	0
Pharmacy/Drugstore with Drive Thru	13	FALSE	2.84	3.16	6.22	1	1
Pharmacy/Drugstore with Drive Thru	14	FALSE	4.47	2.81	5.70	7	0
Pharmacy/Drugstore with Drive Thru	15	FALSE	4.09	2.44	5.61	2	0
Pharmacy/Drugstore with Drive Thru	1	TRUE	6.81	2.81	6.86	9	0
Pharmacy/Drugstore with Drive Thru	2	TRUE	4.97	1.98	7.17	14	0
Pharmacy/Drugstore with Drive Thru	3	TRUE	2.77	2.30	4.53	10	2
Pharmacy/Drugstore with Drive Thru	4	TRUE	3.55	2.68	6.02	3	0
Pharmacy/Drugstore with Drive Thru	5	TRUE	2.90	3.36	5.88	5	1
Pharmacy/Drugstore with Drive Thru	6	TRUE	4.20	2.98	6.45	6	1
Pharmacy/Drugstore with Drive Thru	7	TRUE	4.12	2.49	5.50	7	0
Pharmacy/Drugstore with Drive Thru	8	TRUE	3.79	2.80	6.85	1	1
Pharmacy/Drugstore with Drive Thru	9	TRUE	5.17	3.23	7.56	1	0
Pharmacy/Drugstore with Drive Thru	10	TRUE	5.95	2.44	8.20	2	0
Pharmacy/Drugstore with Drive Thru	11	TRUE	5.17	3.23	7.56	1	0
Pharmacy/Drugstore with Drive Thru	12	TRUE	5.17	3.23	7.56	1	0
Pharmacy/Drugstore with Drive Thru	13	TRUE	4.13	3.16	7.50	1	1
Pharmacy/Drugstore with Drive Thru	14	TRUE	6.81	2.81	6.86	9	0
Pharmacy/Drugstore with Drive Thru	15	TRUE	5.95	2.44	8.20	2	0
Place of Worship	1	FALSE	0.56	1.85	1.81	3	0
Place of Worship	2	FALSE	1.48	4.20	2.60	18	0
Place of Worship	3	FALSE	1.75	4.16	2.70	17	4
Place of Worship	4	FALSE	1.32	3.70	3.08	20	7
Place of Worship	5	FALSE	1.08	3.36	2.99	18	7
Place of Worship	6	FALSE	3.05	7.20	4.57	23	12
Place of Worship	7	FALSE	0.36	1.31	0.65	17	0
Place of Worship	8	FALSE	1.45	3.83	2.99	14	7
Place of Worship	9	FALSE	2.01	5.75	3.10	14	4
Place of Worship	10	FALSE	1.97	5.02	2.93	15	17
Place of Worship	11	FALSE	2.01	5.75	3.10	14	4

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Place of Worship	12	FALSE	2.01	5.75	3.10	14	4
Place of Worship	13	FALSE	1.08	4.27	2.83	4	7
Place of Worship	14	FALSE	0.56	1.85	1.81	3	0
Place of Worship	15	FALSE	1.97	5.02	2.93	15	17
Place of Worship	1	TRUE	0.83	1.85	2.28	4	0
Place of Worship	2	TRUE	2.17	4.20	3.26	22	0
Place of Worship	3	TRUE	2.52	4.16	3.35	20	4
Place of Worship	4	TRUE	1.93	3.70	3.80	23	7
Place of Worship	5	TRUE	1.59	3.36	3.70	20	7
Place of Worship	6	TRUE	4.47	7.20	5.65	26	12
Place of Worship	7	TRUE	0.51	1.31	0.91	19	0
Place of Worship	8	TRUE	2.12	3.83	3.70	15	7
Place of Worship	9	TRUE	2.94	5.75	3.85	15	4
Place of Worship	10	TRUE	2.89	5.02	3.62	17	17
Place of Worship	11	TRUE	2.94	5.75	3.85	15	4
Place of Worship	12	TRUE	2.94	5.75	3.85	15	4
Place of Worship	13	TRUE	1.59	4.27	3.52	5	7
Place of Worship	14	TRUE	0.83	1.85	2.28	4	0
Place of Worship	15	TRUE	2.89	5.02	3.62	17	17
Quality Restaurant	1	FALSE	3.57	15.83	4.74	27	89
Quality Restaurant	2	FALSE	5.41	17.72	7.57	40	69
Quality Restaurant	3	FALSE	5.85	16.25	6.17	35	175
Quality Restaurant	4	FALSE	4.52	22.30	5.35	60	147
Quality Restaurant	5	FALSE	2.38	20.97	5.34	40	128
Quality Restaurant	6	FALSE	7.86	26.72	6.19	59	118
Quality Restaurant	7	FALSE	6.97	20.65	5.04	18	81
Quality Restaurant	8	FALSE	7.78	20.11	7.66	78	181
Quality Restaurant	9	FALSE	7.24	28.16	7.87	43	188
Quality Restaurant	10	FALSE	11.06	28.48	6.62	77	196
Quality Restaurant	11	FALSE	7.24	28.16	7.87	43	188
Quality Restaurant	12	FALSE	7.24	28.16	7.87	43	188
Quality Restaurant	13	FALSE	7.35	23.69	6.78	36	138
Quality Restaurant	14	FALSE	3.57	15.83	4.74	27	89
Quality Restaurant	15	FALSE	11.06	28.48	6.62	77	196
Quality Restaurant	1	TRUE	5.30	15.83	5.76	30	89
Quality Restaurant	2	TRUE	7.80	17.72	9.18	45	69
Quality Restaurant	3	TRUE	8.49	16.25	7.47	39	175
Quality Restaurant	4	TRUE	6.58	22.30	6.25	65	147
Quality Restaurant	5	TRUE	3.42	20.97	6.45	43	128
Quality Restaurant	6	TRUE	11.47	26.72	7.44	65	118
Quality Restaurant	7	TRUE	10.14	20.65	6.13	21	81
Quality Restaurant	8	TRUE	11.27	20.11	9.20	84	181
Quality Restaurant	9	TRUE	10.52	28.16	9.64	47	188
Quality Restaurant	10	TRUE	16.13	28.48	9.51	84	196
Quality Restaurant	11	TRUE	10.52	28.16	9.64	47	188
Quality Restaurant	12	TRUE	10.52	28.16	9.64	47	188
Quality Restaurant	13	TRUE	10.67	23.69	8.19	38	138
Quality Restaurant	14	TRUE	5.30	15.83	5.76	30	89
Quality Restaurant	15	TRUE	16.13	28.48	9.51	84	196
Racquet Club	1	FALSE	0.56	1.85	1.81	3	0
Racquet Club	2	FALSE	1.48	4.20	2.60	18	0
Racquet Club	3	FALSE	1.75	4.16	2.70	17	4
Racquet Club	4	FALSE	1.32	3.70	3.08	20	7
Racquet Club	5	FALSE	1.08	3.36	2.99	18	7
Racquet Club	6	FALSE	3.05	7.20	4.57	23	12
Racquet Club	7	FALSE	0.36	1.31	0.65	17	0
Racquet Club	8	FALSE	1.45	3.83	2.99	14	7
Racquet Club	9	FALSE	2.01	5.75	3.10	14	4
Racquet Club	10	FALSE	1.97	5.02	2.93	15	17
Racquet Club	11	FALSE	2.01	5.75	3.10	14	4
Racquet Club	12	FALSE	2.01	5.75	3.10	14	4
Racquet Club	13	FALSE	1.08	4.27	2.83	4	7
Racquet Club	14	FALSE	0.56	1.85	1.81	3	0
Racquet Club	15	FALSE	1.97	5.02	2.93	15	17
Racquet Club	1	TRUE	0.83	1.85	2.28	4	0
Racquet Club	2	TRUE	2.17	4.20	3.26	22	0
Racquet Club	3	TRUE	2.52	4.16	3.35	20	4

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Racquet Club	4	TRUE	1.93	3.70	3.80	23	7
Racquet Club	5	TRUE	1.59	3.36	3.70	20	7
Racquet Club	6	TRUE	4.47	7.20	5.65	26	12
Racquet Club	7	TRUE	0.51	1.31	0.91	19	0
Racquet Club	8	TRUE	2.12	3.83	3.70	15	7
Racquet Club	9	TRUE	2.94	5.75	3.85	15	4
Racquet Club	10	TRUE	2.89	5.02	3.62	17	17
Racquet Club	11	TRUE	2.94	5.75	3.85	15	4
Racquet Club	12	TRUE	2.94	5.75	3.85	15	4
Racquet Club	13	TRUE	1.59	4.27	3.52	5	7
Racquet Club	14	TRUE	0.83	1.85	2.28	4	0
Racquet Club	15	TRUE	2.89	5.02	3.62	17	17
Recreational Swimming Pool	1	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	2	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	3	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	4	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	5	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	6	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	7	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	8	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	9	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	10	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	11	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	12	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	13	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	14	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	15	FALSE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	1	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	2	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	3	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	4	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	5	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	6	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	7	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	8	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	9	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	10	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	11	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	12	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	13	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	14	TRUE	0.00	0.00	0.00	0	0
Recreational Swimming Pool	15	TRUE	0.00	0.00	0.00	0	0
Refrigerated Warehouse-No Rail	1	FALSE	0.20	11.15	2.40	0	0
Refrigerated Warehouse-No Rail	2	FALSE	0.32	15.28	3.11	1	0
Refrigerated Warehouse-No Rail	3	FALSE	0.42	21.99	2.45	0	0
Refrigerated Warehouse-No Rail	4	FALSE	0.12	7.99	1.62	1	3
Refrigerated Warehouse-No Rail	5	FALSE	0.75	20.65	2.34	5	13
Refrigerated Warehouse-No Rail	6	FALSE	0.41	13.70	1.85	1	1
Refrigerated Warehouse-No Rail	7	FALSE	0.51	26.24	2.12	5	3
Refrigerated Warehouse-No Rail	8	FALSE	0.26	19.26	2.74	1	0
Refrigerated Warehouse-No Rail	9	FALSE	0.37	13.61	2.73	1	0
Refrigerated Warehouse-No Rail	10	FALSE	0.95	36.52	2.37	3	49
Refrigerated Warehouse-No Rail	11	FALSE	0.37	13.61	2.73	1	0
Refrigerated Warehouse-No Rail	12	FALSE	0.37	13.61	2.73	1	0
Refrigerated Warehouse-No Rail	13	FALSE	1.85	27.88	3.61	6	0
Refrigerated Warehouse-No Rail	14	FALSE	0.20	11.15	2.40	0	0
Refrigerated Warehouse-No Rail	15	FALSE	0.95	36.52	2.37	3	49
Refrigerated Warehouse-No Rail	1	TRUE	0.28	11.15	2.96	0	0
Refrigerated Warehouse-No Rail	2	TRUE	0.46	15.28	3.80	1	0
Refrigerated Warehouse-No Rail	3	TRUE	0.61	21.99	3.04	0	0
Refrigerated Warehouse-No Rail	4	TRUE	0.19	7.99	1.82	1	3
Refrigerated Warehouse-No Rail	5	TRUE	1.08	20.65	2.89	6	13
Refrigerated Warehouse-No Rail	6	TRUE	0.63	13.70	2.33	1	1
Refrigerated Warehouse-No Rail	7	TRUE	0.72	26.24	2.64	7	3
Refrigerated Warehouse-No Rail	8	TRUE	0.38	19.26	3.22	1	0
Refrigerated Warehouse-No Rail	9	TRUE	0.55	13.61	3.35	1	0
Refrigerated Warehouse-No Rail	10	TRUE	1.41	36.52	3.63	3	49

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Refrigerated Warehouse-No Rail	11	TRUE	0.55	13.61	3.35	1	0
Refrigerated Warehouse-No Rail	12	TRUE	0.55	13.61	3.35	1	0
Refrigerated Warehouse-No Rail	13	TRUE	2.64	27.88	4.39	7	0
Refrigerated Warehouse-No Rail	14	TRUE	0.28	11.15	2.96	0	0
Refrigerated Warehouse-No Rail	15	TRUE	1.41	36.52	3.63	3	49
Refrigerated Warehouse-Rail	1	FALSE	0.20	11.15	2.40	0	0
Refrigerated Warehouse-Rail	2	FALSE	0.32	15.28	3.11	1	0
Refrigerated Warehouse-Rail	3	FALSE	0.42	21.99	2.45	0	0
Refrigerated Warehouse-Rail	4	FALSE	0.12	7.99	1.62	1	3
Refrigerated Warehouse-Rail	5	FALSE	0.75	20.65	2.34	5	13
Refrigerated Warehouse-Rail	6	FALSE	0.41	13.70	1.85	1	1
Refrigerated Warehouse-Rail	7	FALSE	0.51	26.24	2.12	5	3
Refrigerated Warehouse-Rail	8	FALSE	0.26	19.26	2.74	1	0
Refrigerated Warehouse-Rail	9	FALSE	0.37	13.61	2.73	1	0
Refrigerated Warehouse-Rail	10	FALSE	0.95	36.52	2.37	3	49
Refrigerated Warehouse-Rail	11	FALSE	0.37	13.61	2.73	1	0
Refrigerated Warehouse-Rail	12	FALSE	0.37	13.61	2.73	1	0
Refrigerated Warehouse-Rail	13	FALSE	1.85	27.88	3.61	6	0
Refrigerated Warehouse-Rail	14	FALSE	0.20	11.15	2.40	0	0
Refrigerated Warehouse-Rail	15	FALSE	0.95	36.52	2.37	3	49
Refrigerated Warehouse-Rail	1	TRUE	0.28	11.15	2.96	0	0
Refrigerated Warehouse-Rail	2	TRUE	0.46	15.28	3.80	1	0
Refrigerated Warehouse-Rail	3	TRUE	0.61	21.99	3.04	0	0
Refrigerated Warehouse-Rail	4	TRUE	0.19	7.99	1.82	1	3
Refrigerated Warehouse-Rail	5	TRUE	1.08	20.65	2.89	6	13
Refrigerated Warehouse-Rail	6	TRUE	0.63	13.70	2.33	1	1
Refrigerated Warehouse-Rail	7	TRUE	0.72	26.24	2.64	7	3
Refrigerated Warehouse-Rail	8	TRUE	0.38	19.26	3.22	1	0
Refrigerated Warehouse-Rail	9	TRUE	0.55	13.61	3.35	1	0
Refrigerated Warehouse-Rail	10	TRUE	1.41	36.52	3.63	3	49
Refrigerated Warehouse-Rail	11	TRUE	0.55	13.61	3.35	1	0
Refrigerated Warehouse-Rail	12	TRUE	0.55	13.61	3.35	1	0
Refrigerated Warehouse-Rail	13	TRUE	2.64	27.88	4.39	7	0
Refrigerated Warehouse-Rail	14	TRUE	0.28	11.15	2.96	0	0
Refrigerated Warehouse-Rail	15	TRUE	1.41	36.52	3.63	3	49
Regional Shopping Center	1	FALSE	4.47	2.81	5.70	7	0
Regional Shopping Center	2	FALSE	3.48	1.98	5.91	11	0
Regional Shopping Center	3	FALSE	1.91	2.30	3.71	9	2
Regional Shopping Center	4	FALSE	2.46	2.68	5.25	2	0
Regional Shopping Center	5	FALSE	2.00	3.36	4.88	4	1
Regional Shopping Center	6	FALSE	2.91	2.98	5.33	4	1
Regional Shopping Center	7	FALSE	2.82	2.49	4.53	6	0
Regional Shopping Center	8	FALSE	2.62	2.80	5.71	1	1
Regional Shopping Center	9	FALSE	3.58	3.23	6.26	1	0
Regional Shopping Center	10	FALSE	4.09	2.44	5.61	2	0
Regional Shopping Center	11	FALSE	3.58	3.23	6.26	1	0
Regional Shopping Center	12	FALSE	3.58	3.23	6.26	1	0
Regional Shopping Center	13	FALSE	2.84	3.16	6.22	1	1
Regional Shopping Center	14	FALSE	4.47	2.81	5.70	7	0
Regional Shopping Center	15	FALSE	4.09	2.44	5.61	2	0
Regional Shopping Center	1	TRUE	6.81	2.81	6.86	9	0
Regional Shopping Center	2	TRUE	4.97	1.98	7.17	14	0
Regional Shopping Center	3	TRUE	2.77	2.30	4.53	10	2
Regional Shopping Center	4	TRUE	3.55	2.68	6.02	3	0
Regional Shopping Center	5	TRUE	2.90	3.36	5.88	5	1
Regional Shopping Center	6	TRUE	4.20	2.98	6.45	6	1
Regional Shopping Center	7	TRUE	4.12	2.49	5.50	7	0
Regional Shopping Center	8	TRUE	3.79	2.80	6.85	1	1
Regional Shopping Center	9	TRUE	5.17	3.23	7.56	1	0
Regional Shopping Center	10	TRUE	5.95	2.44	8.20	2	0
Regional Shopping Center	11	TRUE	5.17	3.23	7.56	1	0
Regional Shopping Center	12	TRUE	5.17	3.23	7.56	1	0
Regional Shopping Center	13	TRUE	4.13	3.16	7.50	1	1
Regional Shopping Center	14	TRUE	6.81	2.81	6.86	9	0
Regional Shopping Center	15	TRUE	5.95	2.44	8.20	2	0
Research & Development	1	FALSE	0.56	1.85	1.81	3	0
Research & Development	2	FALSE	1.48	4.20	2.60	18	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Research & Development	3	FALSE	1.75	4.16	2.70	17	4
Research & Development	4	FALSE	1.32	3.70	3.08	20	7
Research & Development	5	FALSE	1.08	3.36	2.99	18	7
Research & Development	6	FALSE	3.05	7.20	4.57	23	12
Research & Development	7	FALSE	0.36	1.31	0.65	17	0
Research & Development	8	FALSE	1.45	3.83	2.99	14	7
Research & Development	9	FALSE	2.01	5.75	3.10	14	4
Research & Development	10	FALSE	1.97	5.02	2.93	15	17
Research & Development	11	FALSE	2.01	5.75	3.10	14	4
Research & Development	12	FALSE	2.01	5.75	3.10	14	4
Research & Development	13	FALSE	1.08	4.27	2.83	4	7
Research & Development	14	FALSE	0.56	1.85	1.81	3	0
Research & Development	15	FALSE	1.97	5.02	2.93	15	17
Research & Development	1	TRUE	0.83	1.85	2.28	4	0
Research & Development	2	TRUE	2.17	4.20	3.26	22	0
Research & Development	3	TRUE	2.52	4.16	3.35	20	4
Research & Development	4	TRUE	1.93	3.70	3.80	23	7
Research & Development	5	TRUE	1.59	3.36	3.70	20	7
Research & Development	6	TRUE	4.47	7.20	5.65	26	12
Research & Development	7	TRUE	0.51	1.31	0.91	19	0
Research & Development	8	TRUE	2.12	3.83	3.70	15	7
Research & Development	9	TRUE	2.94	5.75	3.85	15	4
Research & Development	10	TRUE	2.89	5.02	3.62	17	17
Research & Development	11	TRUE	2.94	5.75	3.85	15	4
Research & Development	12	TRUE	2.94	5.75	3.85	15	4
Research & Development	13	TRUE	1.59	4.27	3.52	5	7
Research & Development	14	TRUE	0.83	1.85	2.28	4	0
Research & Development	15	TRUE	2.89	5.02	3.62	17	17
Retirement Community	1	FALSE	165.27	3172.76	1001.10	8768	1599
Retirement Community	2	FALSE	108.87	3172.76	1001.10	8969	2687
Retirement Community	3	FALSE	147.91	3172.76	1001.10	9924	3723
Retirement Community	4	FALSE	77.89	3172.76	1001.10	6713	3155
Retirement Community	5	FALSE	49.64	3172.76	1001.10	16901	2615
Retirement Community	6	FALSE	108.87	3172.76	1001.10	8969	2687
Retirement Community	7	FALSE	139.08	3172.76	1001.10	11351	4769
Retirement Community	8	FALSE	37.70	3172.76	1001.10	6903	5516
Retirement Community	9	FALSE	54.80	3172.76	1001.10	9488	6384
Retirement Community	10	FALSE	186.83	3172.76	1001.10	9096	6030
Retirement Community	11	FALSE	28.76	3172.76	1001.10	8849	4831
Retirement Community	12	FALSE	41.85	3172.76	1001.10	4285	6281
Retirement Community	13	FALSE	55.56	3172.76	1001.10	6714	4180
Retirement Community	14	FALSE	165.27	3172.76	1001.10	8768	1599
Retirement Community	15	FALSE	186.83	3172.76	1001.10	9096	6030
Retirement Community	1	TRUE	618.37	3125.85	1001.10	4221	2951
Retirement Community	2	TRUE	375.03	3125.85	1001.10	20388	2951
Retirement Community	3	TRUE	671.81	3125.85	1001.10	16255	2951
Retirement Community	4	TRUE	229.45	3125.85	1001.10	17767	2951
Retirement Community	5	TRUE	169.05	3125.85	1001.10	22944	2951
Retirement Community	6	TRUE	375.03	3125.85	1001.10	20388	2951
Retirement Community	7	TRUE	551.09	3125.85	1001.10	8416	2951
Retirement Community	8	TRUE	245.59	3126.32	1001.10	13843	2951
Retirement Community	9	TRUE	336.00	3126.97	1001.10	12317	2951
Retirement Community	10	TRUE	933.44	3125.85	1001.10	18983	2951
Retirement Community	11	TRUE	286.69	3125.85	1001.10	15240	3047
Retirement Community	12	TRUE	336.32	3125.85	1001.10	11139	2974
Retirement Community	13	TRUE	257.40	3126.41	1001.10	11602	3002
Retirement Community	14	TRUE	618.37	3125.85	1001.10	4221	2951
Retirement Community	15	TRUE	933.44	3125.85	1001.10	18983	2951
Single Family Housing	1	FALSE	191.61	6155.97	1608.84	9529	1599
Single Family Housing	2	FALSE	142.58	6155.97	1608.84	20972	2687
Single Family Housing	3	FALSE	209.15	6155.97	1608.84	20315	3723
Single Family Housing	4	FALSE	68.41	6155.97	1608.84	23475	3155
Single Family Housing	5	FALSE	45.71	6155.97	1608.84	35976	2615
Single Family Housing	6	FALSE	142.58	6155.97	1608.84	20972	2687
Single Family Housing	7	FALSE	174.14	6155.97	1608.84	18994	4769
Single Family Housing	8	FALSE	53.28	6155.97	1608.84	18382	5516
Single Family Housing	9	FALSE	93.13	6155.97	1608.84	19108	6384

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Single Family Housing	10	FALSE	199.85	6155.97	1608.84	22257	6030
Single Family Housing	11	FALSE	44.29	6155.97	1608.84	20535	4831
Single Family Housing	12	FALSE	120.13	6155.97	1608.84	21333	6281
Single Family Housing	13	FALSE	69.52	6155.97	1608.84	17401	4180
Single Family Housing	14	FALSE	191.61	6155.97	1608.84	9529	1599
Single Family Housing	15	FALSE	199.85	6155.97	1608.84	22257	6030
Single Family Housing	1	TRUE	686.47	5105.81	1608.84	12959	6168
Single Family Housing	2	TRUE	943.88	5098.84	1608.84	29131	5934
Single Family Housing	3	TRUE	1243.06	5093.98	1608.84	28148	6005
Single Family Housing	4	TRUE	476.86	5095.49	1608.84	32673	5877
Single Family Housing	5	TRUE	321.72	5096.44	1608.84	49808	6193
Single Family Housing	6	TRUE	943.88	5098.84	1608.84	29131	5934
Single Family Housing	7	TRUE	988.10	5099.35	1608.84	26247	6070
Single Family Housing	8	TRUE	505.85	5089.81	1608.84	25627	5819
Single Family Housing	9	TRUE	771.15	5089.81	1608.84	26604	5857
Single Family Housing	10	TRUE	1269.07	5089.81	1608.84	30908	5950
Single Family Housing	11	TRUE	467.55	5089.81	1608.84	28629	5819
Single Family Housing	12	TRUE	974.99	5089.81	1608.84	29742	5819
Single Family Housing	13	TRUE	550.61	5089.81	1608.84	24261	5819
Single Family Housing	14	TRUE	686.47	5105.81	1608.84	12959	6168
Single Family Housing	15	TRUE	1269.07	5089.81	1608.84	30908	5950
Strip Mall	1	FALSE	4.47	2.81	5.70	7	0
Strip Mall	2	FALSE	3.48	1.98	5.91	11	0
Strip Mall	3	FALSE	1.91	2.30	3.71	9	2
Strip Mall	4	FALSE	2.46	2.68	5.25	2	0
Strip Mall	5	FALSE	2.00	3.36	4.88	4	1
Strip Mall	6	FALSE	2.91	2.98	5.33	4	1
Strip Mall	7	FALSE	2.82	2.49	4.53	6	0
Strip Mall	8	FALSE	2.62	2.80	5.71	1	1
Strip Mall	9	FALSE	3.58	3.23	6.26	1	0
Strip Mall	10	FALSE	4.09	2.44	5.61	2	0
Strip Mall	11	FALSE	3.58	3.23	6.26	1	0
Strip Mall	12	FALSE	3.58	3.23	6.26	1	0
Strip Mall	13	FALSE	2.84	3.16	6.22	1	1
Strip Mall	14	FALSE	4.47	2.81	5.70	7	0
Strip Mall	15	FALSE	4.09	2.44	5.61	2	0
Strip Mall	1	TRUE	6.81	2.81	6.86	9	0
Strip Mall	2	TRUE	4.97	1.98	7.17	14	0
Strip Mall	3	TRUE	2.77	2.30	4.53	10	2
Strip Mall	4	TRUE	3.55	2.68	6.02	3	0
Strip Mall	5	TRUE	2.90	3.36	5.88	5	1
Strip Mall	6	TRUE	4.20	2.98	6.45	6	1
Strip Mall	7	TRUE	4.12	2.49	5.50	7	0
Strip Mall	8	TRUE	3.79	2.80	6.85	1	1
Strip Mall	9	TRUE	5.17	3.23	7.56	1	0
Strip Mall	10	TRUE	5.95	2.44	8.20	2	0
Strip Mall	11	TRUE	5.17	3.23	7.56	1	0
Strip Mall	12	TRUE	5.17	3.23	7.56	1	0
Strip Mall	13	TRUE	4.13	3.16	7.50	1	1
Strip Mall	14	TRUE	6.81	2.81	6.86	9	0
Strip Mall	15	TRUE	5.95	2.44	8.20	2	0
Supermarket	1	FALSE	2.11	25.04	6.77	24	1
Supermarket	2	FALSE	5.14	26.20	8.29	39	0
Supermarket	3	FALSE	3.49	22.51	6.59	15	14
Supermarket	4	FALSE	3.65	30.13	6.82	17	6
Supermarket	5	FALSE	2.43	27.24	7.42	24	13
Supermarket	6	FALSE	5.09	25.85	8.85	16	9
Supermarket	7	FALSE	3.57	25.36	8.27	8	1
Supermarket	8	FALSE	4.21	25.23	8.68	10	11
Supermarket	9	FALSE	3.95	25.88	7.03	10	12
Supermarket	10	FALSE	5.42	22.82	8.14	13	7
Supermarket	11	FALSE	3.95	25.88	7.03	10	12
Supermarket	12	FALSE	3.95	25.88	7.03	10	12
Supermarket	13	FALSE	2.90	25.54	6.94	10	15
Supermarket	14	FALSE	2.11	25.04	6.77	24	1
Supermarket	15	FALSE	5.42	22.82	8.14	13	7
Supermarket	1	TRUE	3.02	25.04	8.09	27	1

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Supermarket	2	TRUE	7.50	26.20	9.86	45	0
Supermarket	3	TRUE	5.05	22.51	7.91	18	14
Supermarket	4	TRUE	5.25	30.13	8.17	20	6
Supermarket	5	TRUE	3.43	27.24	8.88	28	13
Supermarket	6	TRUE	7.36	25.85	10.53	19	9
Supermarket	7	TRUE	5.16	25.36	9.92	8	1
Supermarket	8	TRUE	6.08	25.23	10.35	11	11
Supermarket	9	TRUE	5.77	25.88	8.45	11	12
Supermarket	10	TRUE	7.92	22.82	9.70	15	7
Supermarket	11	TRUE	5.77	25.88	8.45	11	12
Supermarket	12	TRUE	5.77	25.88	8.45	11	12
Supermarket	13	TRUE	4.18	25.54	8.33	11	15
Supermarket	14	TRUE	3.02	25.04	8.09	27	1
Supermarket	15	TRUE	7.92	22.82	9.70	15	7
Unenclosed Parking Structure	1	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	2	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	3	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	4	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	5	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	6	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	7	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	8	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	9	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	10	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	11	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	12	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	13	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	14	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	15	FALSE	0.00	0.00	1.75	0	0
Unenclosed Parking Structure	1	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	2	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	3	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	4	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	5	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	6	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	7	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	8	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	9	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	10	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	11	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	12	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	13	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	14	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking Structure	15	TRUE	0.00	0.00	2.63	0	0
Unenclosed Parking with Elevator	1	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	2	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	3	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	4	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	5	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	6	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	7	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	8	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	9	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	10	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	11	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	12	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	13	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	14	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	15	FALSE	0.00	0.19	1.75	0	0
Unenclosed Parking with Elevator	1	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	2	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	3	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	4	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	5	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	6	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	7	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	8	TRUE	0.00	0.19	2.63	0	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Unenclosed Parking with Elevator	9	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	10	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	11	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	12	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	13	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	14	TRUE	0.00	0.19	2.63	0	0
Unenclosed Parking with Elevator	15	TRUE	0.00	0.19	2.63	0	0
University/College (4yr)	1	FALSE	2.32	1.73	5.76	21	0
University/College (4yr)	2	FALSE	3.36	0.34	4.63	40	0
University/College (4yr)	3	FALSE	2.65	2.63	5.82	21	1
University/College (4yr)	4	FALSE	2.44	2.27	2.91	21	3
University/College (4yr)	5	FALSE	3.70	3.15	2.93	33	1
University/College (4yr)	6	FALSE	3.01	2.09	3.03	26	0
University/College (4yr)	7	FALSE	3.24	6.44	5.83	51	0
University/College (4yr)	8	FALSE	4.46	2.72	4.64	10	5
University/College (4yr)	9	FALSE	2.71	3.59	3.39	26	1
University/College (4yr)	10	FALSE	1.76	1.92	3.99	14	0
University/College (4yr)	11	FALSE	2.71	3.59	3.39	26	1
University/College (4yr)	12	FALSE	2.71	3.59	3.39	26	1
University/College (4yr)	13	FALSE	2.38	2.69	3.53	31	5
University/College (4yr)	14	FALSE	2.32	1.73	5.76	21	0
University/College (4yr)	15	FALSE	1.76	1.92	3.99	14	0
University/College (4yr)	1	TRUE	3.42	1.73	7.02	25	0
University/College (4yr)	2	TRUE	5.14	0.34	5.63	50	0
University/College (4yr)	3	TRUE	3.94	2.63	7.00	25	1
University/College (4yr)	4	TRUE	3.49	2.27	3.58	24	3
University/College (4yr)	5	TRUE	5.41	3.15	3.61	40	1
University/College (4yr)	6	TRUE	4.47	2.09	3.75	31	0
University/College (4yr)	7	TRUE	4.74	6.44	7.07	59	0
University/College (4yr)	8	TRUE	7.10	2.72	5.59	12	5
University/College (4yr)	9	TRUE	4.07	3.59	4.14	31	1
University/College (4yr)	10	TRUE	2.64	1.92	4.86	17	0
University/College (4yr)	11	TRUE	4.07	3.59	4.14	31	1
University/College (4yr)	12	TRUE	4.07	3.59	4.14	31	1
University/College (4yr)	13	TRUE	3.73	2.69	4.35	36	5
University/College (4yr)	14	TRUE	3.42	1.73	7.02	25	0
University/College (4yr)	15	TRUE	2.64	1.92	4.86	17	0
Unrefrigerated Warehouse-No Rail	1	FALSE	0.00	0.00	0.00	0	0
Unrefrigerated Warehouse-No Rail	2	FALSE	0.45	1.77	2.33	6	0
Unrefrigerated Warehouse-No Rail	3	FALSE	0.93	5.13	3.22	17	1
Unrefrigerated Warehouse-No Rail	4	FALSE	0.29	1.07	2.14	3	0
Unrefrigerated Warehouse-No Rail	5	FALSE	0.21	1.38	2.17	1	0
Unrefrigerated Warehouse-No Rail	6	FALSE	0.23	1.36	1.60	0	0
Unrefrigerated Warehouse-No Rail	7	FALSE	0.80	0.95	1.48	0	0
Unrefrigerated Warehouse-No Rail	8	FALSE	0.53	1.61	1.96	4	0
Unrefrigerated Warehouse-No Rail	9	FALSE	0.58	1.34	1.91	1	0
Unrefrigerated Warehouse-No Rail	10	FALSE	0.33	0.82	1.17	2	0
Unrefrigerated Warehouse-No Rail	11	FALSE	0.58	1.34	1.91	1	0
Unrefrigerated Warehouse-No Rail	12	FALSE	0.58	1.34	1.91	1	0
Unrefrigerated Warehouse-No Rail	13	FALSE	0.78	1.11	1.66	2	0
Unrefrigerated Warehouse-No Rail	14	FALSE	0.00	0.00	0.00	0	0
Unrefrigerated Warehouse-No Rail	15	FALSE	0.33	0.82	1.17	2	0
Unrefrigerated Warehouse-No Rail	1	TRUE	0.00	0.00	0.00	0	0
Unrefrigerated Warehouse-No Rail	2	TRUE	0.65	1.77	2.89	8	0
Unrefrigerated Warehouse-No Rail	3	TRUE	1.36	5.13	3.94	18	1
Unrefrigerated Warehouse-No Rail	4	TRUE	0.42	1.07	2.57	4	0
Unrefrigerated Warehouse-No Rail	5	TRUE	0.31	1.38	2.69	1	0
Unrefrigerated Warehouse-No Rail	6	TRUE	0.38	1.36	1.88	1	0
Unrefrigerated Warehouse-No Rail	7	TRUE	0.00	0.00	0.00	0	0
Unrefrigerated Warehouse-No Rail	8	TRUE	0.77	1.61	2.30	5	0
Unrefrigerated Warehouse-No Rail	9	TRUE	0.85	1.34	2.38	1	0
Unrefrigerated Warehouse-No Rail	10	TRUE	0.48	0.82	1.88	2	0
Unrefrigerated Warehouse-No Rail	11	TRUE	0.85	1.34	2.38	1	0
Unrefrigerated Warehouse-No Rail	12	TRUE	0.85	1.34	2.38	1	0
Unrefrigerated Warehouse-No Rail	13	TRUE	1.13	1.11	2.09	2	0
Unrefrigerated Warehouse-No Rail	14	TRUE	0.00	0.00	0.00	0	0
Unrefrigerated Warehouse-No Rail	15	TRUE	0.48	0.82	1.88	2	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
Unrefrigerated Warehouse-Rail	1	FALSE	0.00	0.00	0.00	0	0
Unrefrigerated Warehouse-Rail	2	FALSE	0.45	1.77	2.33	6	0
Unrefrigerated Warehouse-Rail	3	FALSE	0.93	5.13	3.22	17	1
Unrefrigerated Warehouse-Rail	4	FALSE	0.29	1.07	2.14	3	0
Unrefrigerated Warehouse-Rail	5	FALSE	0.21	1.38	2.17	1	0
Unrefrigerated Warehouse-Rail	6	FALSE	0.23	1.36	1.60	0	0
Unrefrigerated Warehouse-Rail	7	FALSE	0.80	0.95	1.48	1	0
Unrefrigerated Warehouse-Rail	8	FALSE	0.53	1.61	1.96	4	0
Unrefrigerated Warehouse-Rail	9	FALSE	0.58	1.34	1.91	1	0
Unrefrigerated Warehouse-Rail	10	FALSE	0.33	0.82	1.17	2	0
Unrefrigerated Warehouse-Rail	11	FALSE	0.58	1.34	1.91	1	0
Unrefrigerated Warehouse-Rail	12	FALSE	0.58	1.34	1.91	1	0
Unrefrigerated Warehouse-Rail	13	FALSE	0.78	1.11	1.66	2	0
Unrefrigerated Warehouse-Rail	14	FALSE	0.00	0.00	0.00	0	0
Unrefrigerated Warehouse-Rail	15	FALSE	0.33	0.82	1.17	2	0
Unrefrigerated Warehouse-Rail	1	TRUE	0.00	0.00	0.00	0	0
Unrefrigerated Warehouse-Rail	2	TRUE	0.65	1.77	2.89	8	0
Unrefrigerated Warehouse-Rail	3	TRUE	1.36	5.13	3.94	18	1
Unrefrigerated Warehouse-Rail	4	TRUE	0.42	1.07	2.57	4	0
Unrefrigerated Warehouse-Rail	5	TRUE	0.31	1.38	2.69	1	0
Unrefrigerated Warehouse-Rail	6	TRUE	0.38	1.36	1.88	1	0
Unrefrigerated Warehouse-Rail	7	TRUE	0.00	0.00	0.00	0	0
Unrefrigerated Warehouse-Rail	8	TRUE	0.77	1.61	2.30	5	0
Unrefrigerated Warehouse-Rail	9	TRUE	0.85	1.34	2.38	1	0
Unrefrigerated Warehouse-Rail	10	TRUE	0.48	0.82	1.88	2	0
Unrefrigerated Warehouse-Rail	11	TRUE	0.85	1.34	2.38	1	0
Unrefrigerated Warehouse-Rail	12	TRUE	0.85	1.34	2.38	1	0
Unrefrigerated Warehouse-Rail	13	TRUE	1.13	1.11	2.09	2	0
Unrefrigerated Warehouse-Rail	14	TRUE	0.00	0.00	0.00	0	0
Unrefrigerated Warehouse-Rail	15	TRUE	0.48	0.82	1.88	2	0
User Defined Commercial	1	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	2	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	3	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	4	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	5	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	6	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	7	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	8	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	9	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	10	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	11	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	12	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	13	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	14	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	15	FALSE	0.00	0.00	0.00	0	0
User Defined Commercial	1	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	2	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	3	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	4	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	5	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	6	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	7	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	8	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	9	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	10	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	11	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	12	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	13	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	14	TRUE	0.00	0.00	0.00	0	0
User Defined Commercial	15	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	1	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	2	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	3	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	4	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	5	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	6	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	7	FALSE	0.00	0.00	0.00	0	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
User Defined Educational	8	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	9	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	10	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	11	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	12	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	13	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	14	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	15	FALSE	0.00	0.00	0.00	0	0
User Defined Educational	1	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	2	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	3	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	4	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	5	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	6	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	7	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	8	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	9	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	10	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	11	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	12	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	13	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	14	TRUE	0.00	0.00	0.00	0	0
User Defined Educational	15	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	1	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	2	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	3	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	4	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	5	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	6	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	7	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	8	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	9	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	10	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	11	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	12	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	13	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	14	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	15	FALSE	0.00	0.00	0.00	0	0
User Defined Industrial	1	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	2	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	3	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	4	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	5	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	6	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	7	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	8	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	9	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	10	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	11	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	12	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	13	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	14	TRUE	0.00	0.00	0.00	0	0
User Defined Industrial	15	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	1	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	2	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	3	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	4	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	5	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	6	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	7	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	8	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	9	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	10	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	11	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	12	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	13	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	14	FALSE	0.00	0.00	0.00	0	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
User Defined Parking	15	FALSE	0.00	0.00	0.00	0	0
User Defined Parking	1	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	2	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	3	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	4	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	5	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	6	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	7	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	8	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	9	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	10	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	11	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	12	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	13	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	14	TRUE	0.00	0.00	0.00	0	0
User Defined Parking	15	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	1	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	2	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	3	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	4	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	5	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	6	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	7	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	8	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	9	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	10	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	11	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	12	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	13	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	14	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	15	FALSE	0.00	0.00	0.00	0	0
User Defined Recreational	1	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	2	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	3	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	4	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	5	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	6	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	7	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	8	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	9	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	10	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	11	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	12	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	13	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	14	TRUE	0.00	0.00	0.00	0	0
User Defined Recreational	15	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	1	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	2	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	3	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	4	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	5	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	6	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	7	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	8	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	9	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	10	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	11	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	12	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	13	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	14	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	15	FALSE	0.00	0.00	0.00	0	0
User Defined Residential	1	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	2	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	3	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	4	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	5	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	6	TRUE	0.00	0.00	0.00	0	0

Table 8.1 Energy Use by Climate Zone and Land Use Type

Land Use Sub Type	Climate Zone	Historical	T24	NT24	Lighting	T24	NT24
			Electricity	Electricity	Electricity	Natural Gas	Natural Gas
			KWhr per DU or SQFT			kBtu per DU or SQFT	
User Defined Residential	7	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	8	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	9	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	10	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	11	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	12	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	13	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	14	TRUE	0.00	0.00	0.00	0	0
User Defined Residential	15	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	1	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	2	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	3	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	4	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	5	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	6	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	7	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	8	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	9	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	10	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	11	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	12	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	13	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	14	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	15	FALSE	0.00	0.00	0.00	0	0
User Defined Retail	1	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	2	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	3	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	4	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	5	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	6	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	7	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	8	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	9	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	10	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	11	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	12	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	13	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	14	TRUE	0.00	0.00	0.00	0	0
User Defined Retail	15	TRUE	0.00	0.00	0.00	0	0

Table 8.2 Natural Gas Emission Factors

Land Use Type	TOG, lb/MMBTU	ROG, lb/MMBTU	SO ₂ , lb/MMBTU	NO _X , lb/MMBTU	PB, lb/MMBTU	PM ₁₀ , lb/MMBTU	PM _{2.5} , lb/MMBTU	CO, lb/MMBTU	CO ₂ _NBIO, lb/MMBTU	CH ₄ , lb/MMBTU	N ₂ O, lb/MMBTU
Residential	0.01078431	0.01078431	0.00058824	0.09215686	4.90196E-07	0.00745098	0.00745098	0.03921569	117.647059	0.0022549	0.00215686
Nonresidential	0.01078431	0.01078431	0.00058824	0.09803922	4.90196E-07	0.00745098	0.00745098	0.08235294	117.647059	0.0022549	0.00215686

Table 9.1 Water Use Rates

Land Use Sub Type	Size Metric	Indoor Water, gal/size/year ¹	Outdoor Water, gal/size/year ¹
Apartments High Rise	Dwelling Unit	65,154	41,075
Apartments Low Rise	Dwelling Unit	65,154	41,075
Apartments Mid Rise	Dwelling Unit	65,154	41,075
Arena	1000sqft	430,770	27,496
Arena	Acre	1,346,157	85,925
Automobile Care Center	1000sqft	94,081	57,663
Bank (with Drive-Through)	1000sqft	39,623	24,285
City Park	Acre		1,191,481
Condo/Townhouse	Dwelling Unit	65,154	41,075
Condo/Townhouse High Rise	Dwelling Unit	65,154	41,075
Congregate Care (Assisted Living)	Dwelling Unit	65,154	41,075
Convenience Market (24 hour)	1000sqft	74,073	45,399
Convenience Market with Gas Pumps	1000sqft	74,073	45,399
Convenience Market with Gas Pumps	Pump	10,457	6,409
Day-Care Center	1000sqft	42,890	110,287
Day-Care Center	Student	2,424	6,234
Day-Care Center	Employee	386	993
Discount Club	1000sqft	74,073	45,399
Electronic Superstore	1000sqft	74,073	45,399
Elementary School	1000sqft	28,997	74,564
Elementary School	Student	2,424	6,234
Elementary School	Employee	29,523	75,917
Fast Food Restaurant w/o Drive Thru	1000sqft	303,534	19,374
Fast Food Restaurant with Drive Thru	1000sqft	303,534	19,374
Free-Standing Discount Store	1000sqft	74,073	45,399
Free-Standing Discount Superstore	1000sqft	74,073	45,399
Gasoline/Service Station	1000sqft	94,081	57,663
General Heavy Industry	1000sqft	231,250	
General Light Industry	1000sqft	231,250	
General Office Building	1000sqft	177,734	108,934
Golf Course	Acre		1,191,481
Golf Course	Hole		8,317,850
Government (Civic Center)	1000sqft	198,660	121,759
Government Office Building	1000sqft	198,660	121,759
Hardware/Paint Store	1000sqft	74,073	45,399
health club	1000sqft	59,143	36,249
High School	1000sqft	33,205	85,383
High School	Employee	39,494	101,555
High School	Student	4,405	11,327
High Turnover (Sit Down Restaurant)	1000sqft	303,534	19,374
Home Improvement Superstore	1000sqft	74,073	45,399
Hospital	1000sqft	125,481	23,901
Hospital	Bed	89,814	17,107
Hotel	Room	25,367	2,819
Industrial Park	1000sqft	231,250	
Junior College (2yr)	1000sqft	49,049	76,718
Junior College (2yr)	Employee	58,339	91,248
Junior College (2yr)	Student	2,141	3,349
Junior High School	1000sqft	20,621	53,025
Junior High School	Student	2,424	6,234
Junior High School	Employee	24,527	63,069

Table 9.1 Water Use Rates

Land Use Sub Type	Size Metric	Indoor Water, gal/size/year ¹	Outdoor Water, gal/size/year ¹
Library	1000sqft	31,289	48,939
Library	Employee	29,219	45,702
Manufacturing	1000sqft	231,250	
Medical Office Building	1000sqft	125,481	23,901
Mobile Home Park	Dwelling Unit	65,154	41,075
Motel	Room	25,367	2,819
Movie Theater (No Matinee)	1000sqft	401,601	25,634
Movie Theater (No Matinee)	Screen	1,104,404	70,494
Movie Theater (No Matinee)	Seat	9,036	577
Office Park	1000sqft	177,734	108,934
Parking Lot	Space		
Unenclosed Parking Structure	Space		
Enclosed Parking Structure	Space		
Unenclosed Parking with Elevator	Space		
Enclosed Parking with Elevator	Space		
Parking Lot	1000sqft		
Unenclosed Parking Structure	1000sqft		
Enclosed Parking Structure	1000sqft		
Unenclosed Parking with Elevator	1000sqft		
Enclosed Parking with Elevator	1000sqft		
Other Asphalt Surfaces	1000sqft		
Other Non-Asphalt Surfaces	1000sqft		
Parking Lot	Acre		
Unenclosed Parking Structure	Acre		
Enclosed Parking Structure	Acre		
Unenclosed Parking with Elevator	Acre		
Enclosed Parking with Elevator	Acre		
Other Asphalt Surfaces	Acre		
Other Non-Asphalt Surfaces	Acre		
Pharmacy/Drugstore w/o Drive Thru	1000sqft	70,448	43,178
Pharmacy/Drugstore with Drive Thru	1000sqft	70,448	43,178
Place of Worship	1000sqft	31,289	48,939
Place of Worship	Seat	1,580	2,472
Quality Restaurant	1000sqft	303,534	19,374
Racquet Club	1000sqft	59,143	36,249
Recreational Swimming Pool	1000sqft	59,143	36,249
Refrigerated Warehouse-No Rail	1000sqft	231,250	
Refrigerated Warehouse-Rail	1000sqft	231,250	
Regional Shopping Center	1000sqft	74,073	45,399
Research & Development	1000sqft	491,694	
Retirement Community	Dwelling Unit	65,154	41,075
Single Family Housing	Dwelling Unit	65,154	41,075
Strip Mall	1000sqft	74,073	45,399
Supermarket	1000sqft	123,268	3,812
University/College (4yr)	Employee	8,222	12,860
University/College (4yr)	Student	2,141	3,349
University/College (4yr)	1000sqft	11,649	18,221
Unrefrigerated Warehouse-No Rail	1000sqft	231,250	
Unrefrigerated Warehouse-Rail	1000sqft	231,250	

1. Industrial water use is based on a work-year of 250 days per year.

Table 9.2 Water and Wastewater Electricity Intensity

Location Type	Name	Source	Supply Water	Treat Water	Distribute Water	Wastewater Treatment
			kWhr/ million gallons			
Air Basin	Great Basin Valleys	1	2117	111	1272	1911
	Lake County	1	2117	111	1272	1911
	Lake Tahoe	1	2117	111	1272	1911
	Mojave Desert	2	9727	111	1272	1911
	Mountain Counties	1	2117	111	1272	1911
	North Central Coast	1	2117	111	1272	1911
	North Coast	1	2117	111	1272	1911
	Northeast Plateau	1	2117	111	1272	1911
	Sacramento Valley	1	2117	111	1272	1911
	Salton Sea	2	9727	111	1272	1911
	San Diego	2	9727	111	1272	1911
	San Francisco Bay Area	1	2117	111	1272	1911
	San Joaquin Valley	1	2117	111	1272	1911
	South Central Coast	1	2117	111	1272	1911
South Coast	2	9727	111	1272	1911	
Air District	Amador County APCD	1	2117	111	1272	1911
	Antelope Valley APCD	2	9727	111	1272	1911
	Bay Area AQMD	1	2117	111	1272	1911
	Butte County AQMD	1	2117	111	1272	1911
	Calaveras County AQMD	1	2117	111	1272	1911
	Colusa County APCD	1	2117	111	1272	1911
	El Dorado County APCD	1	2117	111	1272	1911
	Feather River AQMD	1	2117	111	1272	1911
	Glenn County APCD	1	2117	111	1272	1911
	Great Basin UAPCD	1	2117	111	1272	1911
	Imperial County APCD	2	9727	111	1272	1911
	Kern County APCD	2	9727	111	1272	1911
	Lake County AQMD	1	2117	111	1272	1911
	Lassen County APCD	1	2117	111	1272	1911
	Mariposa County APCD	1	2117	111	1272	1911
	Mendocino County AQMD	1	2117	111	1272	1911
	Modoc County APCD	1	2117	111	1272	1911
	Mojave Desert AQMD	2	9727	111	1272	1911
	Monterey Bay Unified APCD	1	2117	111	1272	1911
	North Coast Unified APCD	1	2117	111	1272	1911
	Northern Sierra AQMD	1	2117	111	1272	1911
	Northern Sonoma County APCD	1	2117	111	1272	1911
	Placer County APCD	1	2117	111	1272	1911
	Sacramento Metropolitan AQMD	1	2117	111	1272	1911
	San Diego County APCD	2	9727	111	1272	1911
	San Joaquin Valley Unified APCD	1	2117	111	1272	1911
	San Luis Obispo County APCD	1	2117	111	1272	1911
	Santa Barbara County APCD	1	2117	111	1272	1911
	Shasta County AQMD	1	2117	111	1272	1911
	Siskiyou County APCD	1	2117	111	1272	1911
	South Coast AQMD	2	9727	111	1272	1911
	Tehama County APCD	1	2117	111	1272	1911
Tuolumne County APCD	1	2117	111	1272	1911	
Ventura County APCD	2	9727	111	1272	1911	
Yolo/Solano AQMD	1	2117	111	1272	1911	

Table 9.2 Water and Wastewater Electricity Intensity

Location Type	Name	Source	Supply Water	Treat Water	Distribute Water	Wastewater Treatment
			kWhr/ million gallons			
Counties	Alameda	1	2117	111	1272	1911
	Alpine	1	2117	111	1272	1911
	Amador	1	2117	111	1272	1911
	Butte	1	2117	111	1272	1911
	Calaveras	1	2117	111	1272	1911
	Colusa	1	2117	111	1272	1911
	Contra Costa	1	2117	111	1272	1911
	Del Norte	1	2117	111	1272	1911
	El Dorado-Lake Tahoe	1	2117	111	1272	1911
	El Dorado-Mountain County	1	2117	111	1272	1911
	Fresno	1	2117	111	1272	1911
	Glenn	1	2117	111	1272	1911
	Humboldt	1	2117	111	1272	1911
	Imperial	2	9727	111	1272	1911
	Inyo	2	9727	111	1272	1911
	Kern-Mojave Desert	2	9727	111	1272	1911
	Kern-San Joaquin	1	2117	111	1272	1911
	Kings	1	2117	111	1272	1911
	Lake	1	2117	111	1272	1911
	Lassen	1	2117	111	1272	1911
	Los Angeles-Mojave Desert	2	9727	111	1272	1911
	Los Angeles-South Coast	2	9727	111	1272	1911
	Madera	1	2117	111	1272	1911
	Marin	1	2117	111	1272	1911
	Mariposa	1	2117	111	1272	1911
	Mendocino-Coastal	1	2117	111	1272	1911
	Mendocino-Inland	1	2117	111	1272	1911
	Mendocino-Rural Inland North	1	2117	111	1272	1911
	Mendocino-Rural Inland South	1	2117	111	1272	1911
	Merced	1	2117	111	1272	1911
	Modoc	1	2117	111	1272	1911
	Mono	1	2117	111	1272	1911
	Monterey	1	2117	111	1272	1911
	Napa	1	2117	111	1272	1911
	Nevada	1	2117	111	1272	1911
	Orange	2	9727	111	1272	1911
	Placer-Lake Tahoe	1	2117	111	1272	1911
	Placer-Mountain Counties	1	2117	111	1272	1911
	Placer-Sacramento	1	2117	111	1272	1911
	Plumas	1	2117	111	1272	1911
	Riverside-Mojave Desert MDAQMD	2	9727	111	1272	1911
	Riverside-Mojave Desert South Coast AQMD	2	9727	111	1272	1911
	Riverside-Salton Sea	2	9727	111	1272	1911
	Riverside-South Coast	2	9727	111	1272	1911
	Sacramento	1	2117	111	1272	1911
	San Benito	1	2117	111	1272	1911
	San Bernardino-Mojave Desert	2	9727	111	1272	1911
	San Bernardino-South Coast	2	9727	111	1272	1911
	San Diego	2	9727	111	1272	1911
	San Francisco	1	2117	111	1272	1911
San Joaquin	1	2117	111	1272	1911	
San Luis Obispo	1	2117	111	1272	1911	
San Mateo	1	2117	111	1272	1911	
Santa Barbara-North of Santa Ynez	1	2117	111	1272	1911	
Santa Barbara-South of Santa Ynez Range	1	2117	111	1272	1911	
Santa Clara	1	2117	111	1272	1911	
Santa Cruz	1	2117	111	1272	1911	
Shasta	1	2117	111	1272	1911	

Table 9.2 Water and Wastewater Electricity Intensity

Location Type	Name	Source	Supply Water	Treat Water	Distribute Water	Wastewater Treatment
			kWhr/ million gallons			
	Sierra	1	2117	111	1272	1911
	Siskiyou	1	2117	111	1272	1911
	Solano-San Francisco	1	2117	111	1272	1911
	Solano-San Joaquin	1	2117	111	1272	1911
	Sonoma-North Coast	1	2117	111	1272	1911
	Sonoma-San Francisco	1	2117	111	1272	1911
	Stanislaus	1	2117	111	1272	1911
	Sutter	1	2117	111	1272	1911
	Tehama	1	2117	111	1272	1911
	Trinity	1	2117	111	1272	1911
	Tulare	1	2117	111	1272	1911
	Tuolumne	1	2117	111	1272	1911
	Ventura	2	9727	111	1272	1911
	Yolo	1	2117	111	1272	1911
	Yuba	1	2117	111	1272	1911
Statewide	Statewide	3	5922	111	1272	1911

Notes:

1. Data is based on the value for Northern California reported in the CEC 2006 Report " Refining Estimates of Water-Related Energy Use in California."
2. Data is based on the value for Southern California reported in the CEC 2006 Report " Refining Estimates of Water-Related Energy Use in California."
3. Data is based on the average of the Northern and Southern California values reported in the CEC 2006 Report " Refining Estimates of Water-Related Energy Use in California."

Table 9.3 Percent of Wastewater Distribution Types

Location Type	Name	Source	Septic Tank	Aerobic	Anaerobic, Facultative Lagoons	Anaerobic, Combustion of Gas	Anaerobic, Cogeneration of Gas
Air Basin	Great Basin Valleys	1	10.33	87.46	2.21	100	0
	Lake County	1	10.33	87.46	2.21	100	0
	Lake Tahoe	1	10.33	87.46	2.21	100	0
	Mojave Desert	1	10.33	87.46	2.21	100	0
	Mountain Counties	1	10.33	87.46	2.21	100	0
	North Central Coast	1	10.33	87.46	2.21	100	0
	North Coast	1	10.33	87.46	2.21	100	0
	Northeast Plateau	1	10.33	87.46	2.21	100	0
	Sacramento Valley	1	10.33	87.46	2.21	100	0
	Salton Sea	1	10.33	87.46	2.21	100	0
	San Diego	1	10.33	87.46	2.21	100	0
	San Diego	1	10.33	87.46	2.21	100	0
	San Francisco Bay Area	1	10.33	87.46	2.21	100	0
	San Joaquin Valley	1	10.33	87.46	2.21	100	0
	South Central Coast	1	10.33	87.46	2.21	100	0
South Coast	1	10.33	87.46	2.21	100	0	
Air District	Amador County APCD	1	10.33	87.46	2.21	100	0
	Antelope Valley APCD	1	10.33	87.46	2.21	100	0
	Bay Area AQMD	1	10.33	87.46	2.21	100	0
	Butte County AQMD	1	10.33	87.46	2.21	100	0
	Calaveras County AQMD	1	10.33	87.46	2.21	100	0
	Colusa County APCD	1	10.33	87.46	2.21	100	0
	El Dorado County APCD	1	10.33	87.46	2.21	100	0
	Feather River AQMD	1	10.33	87.46	2.21	100	0
	Glenn County APCD	1	10.33	87.46	2.21	100	0
	Great Basin UAPCD	1	10.33	87.46	2.21	100	0
	Imperial County APCD	1	10.33	87.46	2.21	100	0
	Kern County APCD	1	10.33	87.46	2.21	100	0
	Lake County AQMD	1	10.33	87.46	2.21	100	0
	Lassen County APCD	1	10.33	87.46	2.21	100	0
	Mariposa County APCD	1	10.33	87.46	2.21	100	0
	Mendocino County AQMD	1	10.33	87.46	2.21	100	0
	Modoc County APCD	1	10.33	87.46	2.21	100	0
	Mojave Desert AQMD	1	10.33	87.46	2.21	100	0
	Monterey Bay Unified APCD	1	10.33	87.46	2.21	100	0
	North Coast Unified APCD	1	10.33	87.46	2.21	100	0
	Northern Sierra AQMD	1	10.33	87.46	2.21	100	0
	Northern Sonoma County APCD	1	10.33	87.46	2.21	100	0
	Placer County APCD	1	10.33	87.46	2.21	100	0
	Sacramento Metropolitan AQMD	2	0	100	0	15	85
	San Diego County APCD	1	10.33	87.46	2.21	100	0
	San Joaquin Valley Unified APCD	1	10.33	87.46	2.21	100	0
	San Luis Obispo County APCD	1	10.33	87.46	2.21	100	0
	Santa Barbara County APCD	2	0	100	0	100	0
	Shasta County AQMD	1	10.33	87.46	2.21	100	0
	Siskiyou County APCD	1	10.33	87.46	2.21	100	0
	South Coast AQMD	1	10.33	87.46	2.21	100	0
	Tehama County APCD	2	67	33	0	100	0
Tuolumne County APCD	1	10.33	87.46	2.21	100	0	
Ventura County APCD	1	10.33	87.46	2.21	100	0	
Yolo/Solano AQMD	1	10.33	87.46	2.21	100	0	

Table 9.3 Percent of Wastewater Distribution Types

Location Type	Name	Source	Septic Tank	Aerobic	Anaerobic, Facultative Lagoons	Anaerobic, Combustion of Gas	Anaerobic, Cogeneration of Gas
Counties	Alameda	1	10.33	87.46	2.21	100	0
	Alpine	1	10.33	87.46	2.21	100	0
	Amador	1	10.33	87.46	2.21	100	0
	Butte	1	10.33	87.46	2.21	100	0
	Calaveras	1	10.33	87.46	2.21	100	0
	Colusa	1	10.33	87.46	2.21	100	0
	Contra Costa	1	10.33	87.46	2.21	100	0
	Del Norte	1	10.33	87.46	2.21	100	0
	El Dorado-Lake Tahoe	1	10.33	87.46	2.21	100	0
	El Dorado-Mountain County	1	10.33	87.46	2.21	100	0
	Fresno	1	10.33	87.46	2.21	100	0
	Glenn	1	10.33	87.46	2.21	100	0
	Humboldt	1	10.33	87.46	2.21	100	0
	Imperial	1	10.33	87.46	2.21	100	0
	Inyo	1	10.33	87.46	2.21	100	0
	Kern-Mojave Desert	1	10.33	87.46	2.21	100	0
	Kern-San Joaquin	1	10.33	87.46	2.21	100	0
	Kings	1	10.33	87.46	2.21	100	0
	Lake	1	10.33	87.46	2.21	100	0
	Lassen	1	10.33	87.46	2.21	100	0
	Los Angeles-Mojave Desert	1	10.33	87.46	2.21	100	0
	Los Angeles-South Coast	1	10.33	87.46	2.21	100	0
	Madera	1	10.33	87.46	2.21	100	0
	Marin	1	10.33	87.46	2.21	100	0
	Mariposa	1	10.33	87.46	2.21	100	0
	Mendocino-Coastal	1	10.33	87.46	2.21	100	0
	Mendocino-Inland	1	10.33	87.46	2.21	100	0
	Mendocino-Rural Inland North	1	10.33	87.46	2.21	100	0
	Mendocino-Rural Inland South	1	10.33	87.46	2.21	100	0
	Merced	1	10.33	87.46	2.21	100	0
	Modoc	1	10.33	87.46	2.21	100	0
	Mono	1	10.33	87.46	2.21	100	0
	Monterey	1	10.33	87.46	2.21	100	0
	Napa	1	10.33	87.46	2.21	100	0
	Nevada	1	10.33	87.46	2.21	100	0
	Orange	1	10.33	87.46	2.21	100	0
	Placer-Lake Tahoe	1	10.33	87.46	2.21	100	0
	Placer-Mountain Counties	1	10.33	87.46	2.21	100	0
	Placer-Sacramento	1	10.33	87.46	2.21	100	0
	Plumas	1	10.33	87.46	2.21	100	0
	Riverside-Mojave Desert MDAQMD	1	10.33	87.46	2.21	100	0
	Riverside-Mojave Desert South Coast AQMD	1	10.33	87.46	2.21	100	0
	Riverside-Salton Sea	1	10.33	87.46	2.21	100	0
	Riverside-South Coast	1	10.33	87.46	2.21	100	0
	Sacramento	2	0	100	0	15	85
	San Benito	1	10.33	87.46	2.21	100	0
	San Bernardino-Mojave Desert	1	10.33	87.46	2.21	100	0
San Bernardino-South Coast	1	10.33	87.46	2.21	100	0	
San Francisco	1	10.33	87.46	2.21	100	0	
San Joaquin	1	10.33	87.46	2.21	100	0	
San Luis Obispo	1	10.33	87.46	2.21	100	0	
San Mateo	1	10.33	87.46	2.21	100	0	
Santa Barbara-North of Santa Ynez	2	0	100	0	100	0	
Santa Barbara-South of Santa Ynez Range	2	0	100	0	100	0	
Santa Clara	1	10.33	87.46	2.21	100	0	
Santa Cruz	1	10.33	87.46	2.21	100	0	
Shasta	1	10.33	87.46	2.21	100	0	
Sierra	1	10.33	87.46	2.21	100	0	
Siskiyou	1	10.33	87.46	2.21	100	0	
Solano-San Francisco	1	10.33	87.46	2.21	100	0	
Solano-San Joaquin	1	10.33	87.46	2.21	100	0	
Sonoma-North Coast	1	10.33	87.46	2.21	100	0	

Table 9.3 Percent of Wastewater Distribution Types

Location Type	Name	Source	Septic Tank	Aerobic	Anaerobic, Facultative Lagoons	Anaerobic, Combustion of Gas	Anaerobic, Cogeneration of Gas
	Sonoma-San Francisco	1	10.33	87.46	2.21	100	0
	Stanislaus	1	10.33	87.46	2.21	100	0
	Sutter	1	10.33	87.46	2.21	100	0
	Tehama	2	67	33	0	100	0
	Trinity	1	10.33	87.46	2.21	100	0
	Tulare	1	10.33	87.46	2.21	100	0
	Tuolumne	1	10.33	87.46	2.21	100	0
	Ventura	1	10.33	87.46	2.21	100	0
	Yolo	1	10.33	87.46	2.21	100	0
	Yuba	1	10.33	87.46	2.21	100	0
Statewide	Statewide	1	10.33	87.46	2.21	100	0

Notes:

1. The default is based on the ratio of wastewater treatment types used in California GHG emission inventories developed by CARB.
2. The value is based on information provided by the Air District.



California Emissions Estimator Model®

**Appendix E
Technical Source
Documentation**

Prepared for:
**California Air Pollution Control Officers
Association (CAPCOA)**

Prepared by:
**BREEZE Software, A Division of Trinity Consultants
Dallas, Texas
in collaboration with
South Coast Air Quality Management District and the
California Air Districts**

**May 2021
CalEEMod Version 2020.4.0**

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Appendix E1 - Construction Survey by South Coast AQMD

South Coast AQMD performed some construction surveys in order to develop default equipment usage and construction phase lengths. The initial survey was for projects less than five acres in size and is described in the following reference: The Sample Construction Scenarios for Projects Less than Five Acres in Size (<http://www.aqmd.gov/ceqa/handbook/LST/FinalReport.pdf>)

An additional 16 sites between five and 30 acres were surveyed for mid-sized projects. The amount and types of equipment was developed by attempting to find trends in data (i.e., comparing projects within the same project size, length of construction phases, number of pieces of equipment with areas disturbed, etc.).

The results of these surveys are included in the following tables.

Appendix E1 - Construction Survey By South Coast AQMD

Demolition One Acre			Demolition Two Acre			Demolition Three Acre			Demolition Five Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Rubber Tired Dozers	1	1	Rubber Tired Dozers	1	8	Rubber Tired Dozers	1	8	Rubber Tired Dozers	2	8
Concrete/Industrial Saws	1	8	Concrete Saw	1	8	Concrete Saw	1	8	Concrete Saw	1	8
Excavators			Excavators			Excavators			Excavators	3	8
Bore/Drill Rigs			Bore/Drill Rigs			Bore/Drill Rigs			Bore/Drill Rigs		
Tractors/Loaders/Backhoes	2	6	Tractors/Loaders/Backhoes	3	8	Tractors/Loaders/Backhoes	3	8	Tractors/Loaders/Backhoes		
	4			5			5			6	
Grading One Acre			Grading Two Acre			Grading Three Acre			Grading Five Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Rubber Tired Dozers	1	6	Rubber Tired Dozers	1	8	Rubber Tired Dozers	1	8	Rubber Tired Dozers	1	8
Excavators			Excavators			Excavators			Excavators	1	8
Graders	1	6	Graders	1	8	Graders	1	8	Graders	1	8
Scrapers			Scrapers			Scrapers			Scrapers		
Tractors/Loaders/Backhoes	1	7	Tractors/Loaders/Backhoes	2	7	Tractors/Loaders/Backhoes	2	7	Tractors/Loaders/Backhoes	3	8
	3			4			4			6	
Construction One Acre			Construction Two Acre			Construction Three Acre			Construction Five Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Cranes	1	4	Cranes	1	6	Cranes	1	8	Cranes	1	7
Welders			Welders	3	8	Welders	3	8	Welders	1	8
Excavators			Excavators			Excavators			Excavators		
Forklifts	2	6	Forklifts	1	6	Forklifts	2	7	Forklifts	3	8
Generator Sets			Generator Sets	1	8	Generator Sets	1	8	Generator Sets	1	8
Tractors/Loaders/Backhoes	2	8	Tractors/Loaders/Backhoes	1	6	Tractors/Loaders/Backhoes	1	6	Tractors/Loaders/Backhoes	3	7
	5			7			8			9	
Coating/Paving One Acre			Coating/Paving Two Acre			Coating/Paving Three Acre			Coating/Paving Five Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Pavers	1	7	Pavers	1	6	Pavers	1	8	Pavers	1	8
Paving Equipment			Paving Equipment	1	6	Paving Equipment	1	8	Paving Equipment	2	6
Cement and Mortar Mixers	4	6	Cement and Mortar Mixers	1	6	Cement and Mortar Mixers	1	8	Cement and Mortar Mixers	2	6
Plate Compactors			Plate Compactors			Plate Compactors			Plate Compactors		
Rollers	1	7	Rollers	1	7	Rollers	2	8	Rollers	2	6
Tractors/Loaders/Backhoes	1	7	Tractors/Loaders/Backhoes	1	8	Tractors/Loaders/Backhoes	1	8	Tractors/Loaders/Backhoes	1	8
	7			5			6			8	
Site Preparation One Acre			Site Preparation Two Acre			Site Preparation Three Acre			Site Preparation Five Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Grader	1	8	Grader	1	8	Grader	1	8	Grader		
Bulldozer			Bulldozer	1	7	Bulldozer			Bulldozer	3	8
Excavator			Excavator			Excavator			Excavator		
Scraper			Scraper			Scraper	1	8	Scraper		
Tractor/Loader/Backhoe	1	8	Tractor/Loader/Backhoe	1	8	Tractor/Loader/Backhoe	1	7	Tractor/Loader/Backhoe	4	8
	2			3			3			7	

Appendix E1 - Construction Survey By South Coast AQMD

Demolition Ten Acre			Demolition Fifteen Acre			Demolition Twenty Acre			Demolition Twenty-five Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Rubber Tired Dozers	2	8	Rubber Tired Dozers	2	8	Rubber Tired Dozers	2	8	Rubber Tired Dozers	2	8
Concrete Saw	1	8	Concrete Saw	1	8	Concrete Saw	1	8	Concrete Saw	1	8
Excavators	3	8	Excavators	3	8	Excavators	3	8	Excavators	3	8
Bore/Drill Rigs			Bore/Drill Rigs			Bore/Drill Rigs			Bore/Drill Rigs		
Tractors/Loaders/Backhoes			Tractors/Loaders/Backhoes			Tractors/Loaders/Backhoes			Tractors/Loaders/Backhoes		
	6			6			6			6	
Grading Ten Acre			Grading Fifteen Acre			Grading Twenty Acre			Grading Twenty-five Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Rubber Tired Dozers	1	8	Rubber Tired Dozers	1	8	Rubber Tired Dozers	1	8	Rubber Tired Dozers	1	8
Excavators	1	8	Excavators	2	8	Excavators	2	8	Excavators	2	8
Graders	1	8	Graders	1	8	Graders	1	8	Graders	1	8
Scrapers			Scrapers	2	8	Scrapers	2	8	Scrapers	2	8
Tractors/Loaders/Backhoes	3	8	Tractors/Loaders/Backhoes	2	8	Tractors/Loaders/Backhoes	2	8	Tractors/Loaders/Backhoes	2	8
	6			8			8			8	
Construction Ten Acre			Construction Fifteen Acre			Construction Twenty Acre			Construction Twenty-five Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Cranes	1	7	Cranes	1	7	Cranes	1	7	Cranes	1	7
Welders	1	8	Welders	1	8	Welders	1	8	Welders	1	8
Excavators			Excavators			Excavators			Excavators		
Forklifts	3	8	Forklifts	3	8	Forklifts	3	8	Forklifts	3	8
Generator Sets	1	8	Generator Sets	1	8	Generator Sets	1	8	Generator Sets	1	8
Tractors/Loaders/Backhoes	3	7	Tractors/Loaders/Backhoes	3	7	Tractors/Loaders/Backhoes	3	7	Tractors/Loaders/Backhoes	3	7
	9			9			9			9	
Coating/Paving Ten Acre			Coating/Paving Fifteen Acre			Coating/Paving Twenty Acre			Coating/Paving Twenty-five Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Pavers	2	8	Pavers	2	8	Pavers	2	8	Pavers	2	8
Paving Equipment	2	8	Paving Equipment	2	8	Paving Equipment	2	8	Paving Equipment	2	8
Cement and Mortar Mixers			Cement and Mortar Mixers			Cement and Mortar Mixers			Cement and Mortar Mixers		
Plate Compactors			Plate Compactors			Plate Compactors			Plate Compactors		
Rollers	2	8	Rollers	2	8	Rollers	2	8	Rollers	2	8
Tractors/Loaders/Backhoes			Tractors/Loaders/Backhoes			Tractors/Loaders/Backhoes			Tractors/Loaders/Backhoes		
	6			6			6			6	
Site Preparation Ten Acre			Site Preparation Fifteen Acre			Site Preparation Twenty Acre			Site Preparation Twenty-five Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Grader			Grader			Grader			Grader		
Bulldozer	3	8	Bulldozer	3	8	Bulldozer	3	8	Bulldozer	3	8
Excavator			Excavator			Excavator			Excavator		
Scraper			Scraper			Scraper			Scraper		
Tractor/Loader/Backhoe	4	8	Tractor/Loader/Backhoe	4	8	Tractor/Loader/Backhoe	4	8	Tractor/Loader/Backhoe	4	8
	7			7			7			7	

Appendix E1 - Construction Survey By South Coast AQMD

Demolition Thirty Acre			Demolition Thirty-four Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Rubber Tired Dozers	2	8	Rubber Tired Dozers	2	8
Concrete Saw	1	8	Concrete Saw	1	8
Excavators	3	8	Excavators	3	8
Bore/Drill Rigs			Bore/Drill Rigs		
Tractors/Loaders/Backhoes			Tractors/Loaders/Backhoes		
	6			6	

Grading Thirty Acre			Grading Thirty-four Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Rubber Tired Dozers	1	8	Rubber Tired Dozers	1	8
Excavators	2	8	Excavators	2	8
Graders	1	8	Graders	1	8
Scrapers	2	8	Scrapers	2	8
Tractors/Loaders/Backhoes	2	8	Tractors/Loaders/Backhoes	2	8
	8			8	

Construction Thirty Acre			Construction Thirty-four Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Cranes	1	7	Cranes	1	7
Welders	1	8	Welders	1	8
Excavators			Excavators		
Forklifts	3	8	Forklifts	3	8
Generator Sets	1	8	Generator Sets	1	8
Tractors/Loaders/Backhoes	3	7	Tractors/Loaders/Backhoes	3	7
	9			9	

Coating/Paving Thirty Acre			Coating/Paving Thirty-four Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Pavers	2	8	Pavers	2	8
Paving Equipment	2	8	Paving Equipment	2	8
Cement and Mortar Mixers			Cement and Mortar Mixers		
Plate Compactors			Plate Compactors		
Rollers	2	8	Rollers	2	8
Tractors/Loaders/Backhoes			Tractors/Loaders/Backhoes		
	6			6	

Site Preparation Thirty Acre			Site Preparation Thirty-four Acre		
Equipment Type	No. of Equip	hr/day	Equipment Type	No. of Equip	hr/day
Grader			Grader		
Bulldozer	3	8	Bulldozer	3	8
Excavator			Excavator		
Scraper			Scraper		
Tractor/Loader/Backhoe	4	8	Tractor/Loader/Backhoe	4	8
	7			7	

Appendix E2 - Building Construction Worker and Vendor Trip Rates

Construction Vendor Trips - Defaults for CalEEMod Based

on 2008 SMAQMD Field Survey - South Coast AQMD 2010 Update

Site	Location	Type	# Units	Square Footage			Raw Data Collection in Field			Observation Time (minutes)	Multiplier to Equate Mins to 8 hrs/day
				Residential Area, sq ft	Commerical Area, sq ft	Office Area, sq ft	Light Duty	Medium Duty	Heavy Duty		
Heritage Park	Woodland	Single Family Residential	2,037				13	3	6	37	12.97
Heritage Park (2nd visit)	Woodland	Single Family Residential	2,037				13	3	2	30	16
Yolo Co. Emergency Service	Woodland	Commercial			43,560		2	2	0	30	16
Woodshire	Woodland	Single Family Residential	2,000				5	3	5	35	13.71
Woodshire (2nd visit)	Woodland	Single Family Residential	2,000				10	0	3	30	16
815 H St.	Davis	Multi-Family Residential	8				1	0	0	30	16
Eleanor Roosevelt Cr.	Davis	Multi-Family Residential	60				2	0	0	30	16
Parlin Ranch	West Sac	Single Family Residential	306				2	1	3	30	16
Bridgeway Lakes 2	West Sac	Single Family Residential	487				7	2	0	30	16
The Rivers	West Sac	Single Family Residential	1,139				7	2	0	30	16
The River's Side	West Sac	Single Fam/ Multi Fam/ Comm	29	43,560	3,850		2	2	0	30	16
Carriage Lane	Sacramento	Multi-Family Residential	156				0	2	1	30	16
Promenade	Sacramento	Office/ Comm & Retail			751,000	504,000	10	1	6	40	12
Serenade	Sacramento	Single Family Residential					5	7	2	30	16
1801 L St. Building	Sacramento	Multi-Fam Res/ Comm & Retail	176	48,226	9,600		2	0	0	30	16
800 J Lofts	Sacramento	Multi-Fam Res/ Retail		144,035	50,965		2	1	0	30	16
Marriott Hotel	Sacramento	Multi-Family Res/ Comm	30	80,143	187,000		1	0	1	30	16
Anatolia I	Rancho Cordova	Single Fam Res/ Comm	1,038	7,122,060	631,620		19	15	10	30	16
Pappas Gateway Ctr	Elk Grove	Comm/ Retail			11,200		1	0	2	30	16
Sheldon Place	Elk Grove	Single Family Residential	164				6	2	0	30	16
Laguna Ridge (east pt)	Elk Grove	SF Res/ MF Res/ Office/ Comm & Retail	7,826	1,132,560	2,853,180	307,969	4	5	51	30	16
Laguna Ridge (west pt)	Elk Grove	SF Res/ MF Res/ Office/ Comm & Retail	7,826	1,132,560	2,853,180	307,969	7	8	8	30	16

Total Units/SqFt	27,319	9,703,144	7,395,155	1,119,938
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Appendix E2 - Building Construction Worker and Vendor Trip Rates

Construction Vendor Trips - Defaults for CalEEMod

Based on 2008 SMAQMD Field Survey - South Coast AQMD 2010 Update

Site	Daily Count			Residential			Commercial			Office			References for the Residential SqFt
	Light Duty	Medium Duty	Heavy Duty	Light Duty	Medium Duty	Heavy Duty	Light Duty	Medium Duty	Heavy Duty	Light Duty	Medium Duty	Heavy Duty	
Heritage Park	169	39	78	169	39	78	0	0	0	0	0	0	
Heritage Park (2nd visit)	208	48	32	208	48	32	0	0	0	0	0	0	
Yolo Co. Emergency Service	32	32	0	0	0	0	32	32	0	0	0	0	
Woodshire	69	41	69	69	41	69	0	0	0	0	0	0	
Woodshire (2nd visit)	160	0	48	160	0	48	0	0	0	0	0	0	
815 H St.	16	0	0	16	0	0	0	0	0	0	0	0	
Eleanor Roosevelt Cr.	32	0	0	32	0	0	0	0	0	0	0	0	
Parlin Ranch	32	16	48	32	16	48	0	0	0	0	0	0	
Bridgeway Lakes 2	112	32	0	112	32	0	0	0	0	0	0	0	
The Rivers	112	32	0	112	32	0	0	0	0	0	0	0	
The River's Side	32	32	0	29	29	0	3	3	0	0	0	0	http://www.mintierharnish.com/projects/westsac/pdf/2008-2013HousingElementUpdate.pdf
Carriage Lane	0	32	16	0	32	16	0	0	0	0	0	0	
Promenade	120	12	72	0	0	0	72	7	43	48	5	29	
Serenade	80	112	32	80	112	32	0	0	0	0	0	0	Serenade at Regency Park Homeowners Association (916) 925-9000
1801 L St. Building	32	0	0	27	0	0	5	0	0	0	0	0	http://www.kuchman.com/architecture-portfolio/urban/1801L.html
800 J Lofts	32	16	0	24	12	0	8	4	0	0	0	0	http://www.cityofsacramento.org/econdev/development-projects/documents/700-800_K_Street_Final_Proposal_web.pdf
Marriott Hotel	16	0	16	5	0	5	11	0	11	0	0	0	http://sacramento.bizjournals.com/sacramento/business_travel/guide/hotels.html
Anatolia I	304	240	160	279	220	147	25	20	13	0	0	0	http://www.cityofranchocordova.org/Modules/ShowDocument.aspx?documentid=758
Pappas Gateway Ctr	16	0	32	0	0	0	16	0	32	0	0	0	
Sheldon Place	96	32	0	96	32	0	0	0	0	0	0	0	
Laguna Ridge (east pt)	64	80	816	17	21	215	43	53	542	4	6	59	http://sacramento.bizjournals.com/sacramento/stories/2008/05/12/story7.html
Laguna Ridge (west pt)	112	128	128	30	34	34	74	85	85	8	9	9	http://sacramento.bizjournals.com/sacramento/stories/2008/05/12/story7.html
Total Daily Vehicle Trips	1,846	925	1,547										
	Total Daily Vehicle Trips			1,496	701	724	289	204	727	60	20	97	
	Vehicle Trips per Unit or 1k Sq Ft			0.0548	0.0256	0.0265	0.0391	0.0275	0.0983	0.0538	0.0176	0.0863	
	TOTAL Vehicle Trips per Unit or 1k SqFt			0.1069			0.1649			0.1577			

Appendix E2 - Building Construction Worker and Vendor Trip Rates

Construction Vendor Trips - Defaults for CalEEMod Based

on 2008 SMAQMD Field Survey - South Coast AQMD 2010 Update

Site	Commercial and Office Area, sq ft	Commercial and Office Daily Count		
		Light Duty	Medium Duty	Heavy Duty
Heritage Park	0	0	0	0
Heritage Park (2nd visit)	0	0	0	0
Yolo Co. Emergency Service	43,560	32	32	0
Woodshire	0	0	0	0
Woodshire (2nd visit)	0	0	0	0
815 H St.	0	0	0	0
Eleanor Roosevelt Cr.	0	0	0	0
Parlin Ranch	0	0	0	0
Bridgeway Lakes 2	0	0	0	0
The Rivers	0	0	0	0
The River's Side	3,850	3	3	0
Carriage Lane	0	0	0	0
Promenade	1,255,000	120	12	72
Serenade	0	0	0	0
1801 L St. Building	9,600	5	0	0
800 J Lofts	50,965	8	4	0
Marriott Hotel	187,000	11	0	11
Anatolia I	631,620	25	20	13
Pappas Gateway Ctr	11,200	16	0	32
Sheldon Place	0	0	0	0
Laguna Ridge (east pt)	3,161,149	47	59	601
Laguna Ridge (west pt)	3,161,149	82	94	94
TOTALS	8,515,093	349	223	823
		0.0410	0.0262	0.0967
			0.1639	

Consumer Products Summary

Statewide Volatile Organic Compound (VOC) emissions data was obtained from the 2008 California Air Resources Board (CARB) Consumer Product Emission Inventory.¹ Statewide total VOC emissions were 239.6 tons/day.

The statewide total building area is 22,435,267,518 square feet. The general building stock inventory was obtained from the HAZUS-MH software and backup databases prepared by the Federal Emergency Management Agency.² This inventory was found to be the most comprehensive statewide data available that included building area for all land use types. The inventory was developed from the following information:

- Census of Population and Housing, 2000: Summary Tape File 1B Extract on CDROM prepared by the Bureau of Census.
- Census of Population and Housing, 2000: Summary Tape File 3 on CD-ROM prepared by the Bureau of Census.
- Dun & Bradstreet, Business Population Report aggregated by Standard Industrial Classification (SIC) and Census Block, May 2002.
- Department of Energy, Housing Characteristics 1993. Office of Energy Markets and End Use, DOE/EIA-0314 (93), June 1995.
- Department of Energy, A Look at Residential Energy Consumption in 1997, DOE/EIA-0632(97), November 1999.
- Department of Energy, A Look at Commercial Buildings in 1995: Characteristics, Energy Consumption, and Energy Expenditures, DOE/EIA-0625(95), October 1998.

Statewide VOCs per building square feet are therefore:

$(239.6 \text{ tons/day} \times 2000 \text{ lbs/ton}) / 22,435,267,518 \text{ sq. ft.} = 2.14e-5 \text{ lbs/(sq.ft.-day)}$

¹ http://www.arb.ca.gov/app/emsmv/emssumcat_query.php?F_YR=2008&F_DIV=-4&F_SEASON=A&SP=2009&F_AREA=CA#5

² Detailed information is contained in the HAZUS-MH Earthquake Technical Manual, Chapter 3.2.1.3 available here: <http://www.fema.gov/plan/prevent/hazus/>

Appendix E3 - Consumer Products Use

Data Grouping	Total VOC (tons/day)	Population*	Total VOC (lbs/person-day)	Total Building Area (Square Feet)
2003 Survey Commercial (45.3% of 2003 Land Use Total)	47.4			
2003 Survey Residential (48.0% of 2003 Land Use Total)	50.3			
2003 Survey Industrial (6.7% of 2003 Land Use Total)	7.0			
2003 Survey Land Use Total (42.3% of Grand Total)	104.7			8,600,000,000 from South Coast AQMD draft staff report for consumer products rule
2003 Survey CARB Data Total	186.3	34,650,690	1.08E-02	
2006 Survey CARB Data Total	61.1	36,457,549	3.35E-03	
Grand Total	247.3		1.41E-02	22,435,267,518 from HAZUS-MH, data from late 1990's - early 2000's

*Data from American Communities Survey from the US Census

	Total VOC (lbs/building sq. ft.)	
2008 ARB Emission Inventory (Consumer Products)	239.6	
South Coast AQMD Rule 1143 reduction to 300 g/l (as of 1/1/11) If 25 g/L gets upheld by the courts	11.3	
	17.5	1.98E-05 South Coast AQMD
		2.14E-05 Statewide Factor
		2.04E-05

Degreaser for Parking Surface Summary

Statewide ROG emissions data from degreasers utilized for general purposes (aerosols and non-aerosols combined) was obtained from 2015 CARB Emission Inventory¹ and is 1.09 tons/day.

In 2010, 5.6 million vehicles were registered in Los Angeles County, and there were 9.6 million non-residential off-street parking spaces, which results in 1.7 parking spaces per registered car². Similarly, in San Francisco County, the census³ indicates that there are 166,455 (Publicly accessible car parking spaces minus on-street parking spaces: 441,905 – 275,450 = 166,455) non-residential off-street parking spaces. Further, EMFAC2014 data shows that there are 274,637 registered cars in 2015, which results in a 0.6 parking space per registered car.

Thus, based on this data, this analysis applies the most conservative parking data (e.g., there are approximately 0.6 parking spaces per registered car in California). Using CalEEMod's default of 400 sq ft/parking space, and CARB's 2014 EMFAC data of 25,647,944 registered cars in California for the year of 2015, the calculation to estimate the total parking area in California is as follows:

25,647,944 cars x 0.6 parking spaces/car x 400 sq ft/parking space = 6,15550656E+9 sq ft.

Thus, the estimate for the statewide parking surface degreaser ROG emission factor is calculated as follows:

$(1.09 \text{ tons ROG/day} \times 2000 \text{ lbs/ton}) / (6,15550656E+9 \text{ sq ft}) = 3.54 * 10^{(-7)} \text{ lb ROG/sq ft/day}$.

¹ Available at: http://www.arb.ca.gov/app/emsinv/emseic_query.php?F_YR=2015&F_DIV=-4&F_SEASON=A&SP=2009&SPN=2009_Almanac&F_AREA=CA&F_EICSUM=510

² Available at: <http://www.citylab.com/commute/2015/12/parking-los-angeles-maps-study/418593/>

³ Available at: <http://sf.streetsblog.org/2014/05/22/census-sf-has-enough-public-parking-spaces-to-fill-cas-coastline>

Fertilizers/Pesticides for City Parks/Golf Courses Summary

This is a new feature that was incorporated into CalEEMod Version 2016.3.1.

Statewide ROG emissions from fertilizers/pesticides for agricultural use was obtained from 2015 CARB Emission Inventory⁴. Statewide total ROG emissions from fertilizers/pesticides for agricultural (not including structural) use was 48.25 tons/day. The inventory data for Pesticides/Fertilizers was excluded from the statewide average because these chemicals are not utilized for groundskeeping activities associated with maintaining city parks and golf courses. According to the California Department of Food and Agriculture, the statewide total of agricultural acreage is 43 million acres⁵.

The calculation to determine what the average statewide ROG emissions factor would be from fertilizers/pesticides for agricultural use is as follows:

$(48.25 \text{ tons ROG/day} \times 2000 \text{ lbs/ton}) / (43 \times 10^6 \text{ acres} \times 43,560 \text{ sq ft/acre}) = 5.152 \times 10^{(-8)} \text{ lb ROG/sq ft/day}$. This statewide agricultural ROG emission factor is used as a surrogate emission factor for estimating ROG emissions associated with using fertilizers/pesticides for landscaping city parks and golf courses.

⁴ Available at: http://www.arb.ca.gov/app/emsinv/emseic_query.php?F_YR=2015&F_DIV=-4&F_SEASON=A&SP=2009&SPN=2009_Almanac&F_AREA=CA&F_EICSUM=530

⁵ Available at: https://www.cdffa.ca.gov/aqvision/docs/Agricultural_Loss_and_Conservation.pdf

Analysis of Building Energy Use Data

The following information describes the steps and assumptions used in preparing building energy use estimates used in CalEEMod Version 2020.4.0 (See Appendix D, Table 8.1).

Background

Emissions result from activities in residential and commercial buildings when electricity and natural gas are used as energy sources. CalEEMod calculates criteria pollutant and GHG emissions from building natural gas combustion, and GHG emissions only from building electricity use (indirectly emitted at regional fossil fuel fired power plants). New California buildings must be designed to meet the building energy efficiency standards of Title 24, also known as the California Building Standards Code. Part 6 of Title 24 regulates energy uses including space heating and cooling, hot water heating, ventilation, and hard-wired lighting. By committing to a percent improvement over Title 24, a development reduces its energy use and resulting criteria pollutant (natural gas use only) and GHG emissions.

The Title 24 standards have been updated three times (in 2013, 2016 and 2019)¹ since some of the California Residential Appliance Saturation Study (RASS) and California Commercial End-Use Survey (CEUS) data used to estimate residential and commercial building energy consumption in CalEEMod were compiled. The California Energy Commission (CEC) published reports estimating the percentage reductions in energy use resulting from the 2013, 2016 and 2019 standards. Based on the CEC's discussion on average savings for Title 24 improvements, the CEC savings percentages by end use are used to account for reductions in electricity and natural gas use due to the 2013, 2016 and 2019 updates to Title 24. Since energy use for each different system type (i.e., heating, cooling, water heating, and ventilation) as well as appliances is defined in this survey, the use of survey data with updates to Title 24 will allow for the application of mitigation measures aimed at reducing the energy use of these devices in a prescriptive manner.

Another mitigation measure to reduce a building's energy consumption, as well as the associated criteria pollutant and GHG emissions from natural gas combustion and electricity production, is the use of energy efficient appliances. For residential dwellings, typical builder-supplied appliances include refrigerators and dishwashers. Clothes washers and ceiling fans would be applicable if the builder supplied them. For commercial land uses, only energy-efficient refrigerators have been evaluated for grocery stores.

¹ See <http://www.energy.ca.gov/title24/2013standards/>, <http://www.energy.ca.gov/title24/2016standards/>, and <http://www.energy.ca.gov/title24/2019standards/>

Methodology

Datasets

The 2009 RASS² and 2002 CEUS³ datasets were used to estimate the energy intensities of residential and non-residential buildings, respectively, since the data is available for several land use categories in different forecasting climate zones in California. The RASS dataset further differentiates the energy use intensities between single-family, multi-family, and townhome residences.

The Energy Star and Other Climate Protection Partnerships 2008 Annual Report⁴ and subsequent Annual Reports were reviewed for typical reductions for energy-efficient appliances. ENERGY STAR residential refrigerators, clothes washers, dishwashers, and ceiling fans use 15%, 25%, 40%, and 50% less electricity than standard appliances, respectively. ENERGY STAR commercial refrigerators use 35% less electricity than standard appliances.

Calculations

RASS and CEUS datasets were used to obtain the energy intensities of different end use categories for different building types in different climate zones. Energy intensities from CEUS are given per square foot per year and used as presented. RASS presents Unit Energy Consumption (UEC) per dwelling unit per year and saturation values; the energy intensities used in this analysis are products of the UEC and saturation values.

Data for some forecasting climate zones is not presented in the CEUS and RASS studies. However, data from adjacent forecasting climate zones is assumed to be representative and substituted as follows:

For non-residential building types:

- Climate Zone 11 used Climate Zone 9 data.
- Climate Zone 12 used Climate Zone 9 data.
- Climate Zone 14 used Climate Zone 1 data.
- Climate Zone 15 used Climate Zone 10 data.

For residential building types:

- Climate Zone 6 used Climate Zone 2 data.
- Climate Zone 14 used Climate Zone 1 data.
- Climate Zone 15 used Climate Zone 10 data.

² Available at: <https://www.energy.ca.gov/data-reports/surveys/2019-residential-appliance-saturation-study/2009-and-2003-residential-appliance>

³ Available at: <http://www.energy.ca.gov/ceus/>

⁴ United States Environmental Protection Agency 2009. ENERGY STAR and Other Climate Protection Partnerships: 2008 Annual Report. Available at: https://www.energystar.gov/ia/partners/annualreports/annual_report_2008.pdf

It is important to note that the RASS and CEUS datasets use CEC's Forecasting Climate Zones (FCZs) and not the more commonplace Building Climate Zones. The user should ensure that they are entering the correct FCZ by referencing the climate zone map contained in this User's Guide and within the CalEEMod program.

Baseline Energy Use from Commercial Buildings

The CEUS data are based on 2002 consumption data. Because older commercial buildings tend to be less energy efficient, and the majority of the buildings in the survey were likely constructed before 2001, the CEUS data likely overestimate energy use for a 2001 Title 24-compliant commercial building. To account for updates since the 2001 Title 24 standards, percentage reductions for each end use category taken directly from the CEC's "Impact Analysis for 2005 Energy Efficiency Standards," "Impact Analysis 2008 Update to the California Energy Efficiency Standards for Residential and Nonresidential Buildings," "Impact Analysis, California's 2013 Building Energy Efficiency Standards", "Impact Analysis 2016 Update to the California Energy Efficiency Standards for Residential and Nonresidential Buildings", and "Impact Analysis 2019 Update to the California Energy Efficiency Standards for Residential and Nonresidential Buildings"⁵ reports were applied to the CEUS dataset for improvements from 2001 to 2005, 2005 to 2008, 2008 to 2013, 2013 to 2016, and 2016 to 2019, respectively (see Table 1). For the CEUS data, exterior lighting was assumed to be covered by Title 24 lighting and therefore has the full percentage reductions taken. Interior lighting was assumed to be 50% Title 24 and 50% non-Title 24 uses. Therefore only half of the reduction for lighting was applied. The resulting 2008 numbers were then used as baseline energy intensities. In CalEEMod, if the user selects use historical, the reductions only include up to the 2005 standards. The total baseline energy intensities are calculated as follows:

$$\text{Baseline} = \sum [T24_{2001} \times (1 - R_{2001-2005}) \times (1 - R_{2005-2008}) \times (1 - R_{2008-2013}) \times (1 - R_{2013-2016}) \times (1 - R_{2016-2019})] + \sum \text{NT24}$$

Where:

- Baseline = Total baseline energy intensities of building category
- T24₂₀₀₁ = Energy intensities of Title 24 regulated end use from RASS or CEUS
- R₂₀₀₁₋₂₀₀₅ = Reduction from 2001 to 2005
- R₂₀₀₅₋₂₀₀₈ = Reduction from 2005 to 2008
- R₂₀₀₈₋₂₀₁₃ = Reduction from 2008 to 2013
- R₂₀₁₃₋₂₀₁₆ = Reduction from 2013 to 2016
- R₂₀₁₆₋₂₀₁₉ = Reduction from 2016 to 2019
- NT24 = Non-Title 24 regulated end use energy intensities

⁵ <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards>

**Table 1
Reduction in Title 24 Regulated End Use for Non-Residential Buildings**

Energy Source	End Use	Reduction from 2001 to 2005	Reduction from 2005 to 2008	Reduction from 2008 to 2013	Reduction from 2013 to 2016	Reduction from 2016 to 2019
Electricity	Heating	4.9%	37.2%	14.20%	4.60%	10.7%
	Ventilation	5.0%	1.5%	14.20%	4.60%	10.7%
	Refrigeration	0.0%	0.0%	0.0%	0.0%	0.0%
	Process	0.0%	0.0%	0.0%	0.0%	0.0%
	Office Equipment	0.0%	0.0%	0.0%	0.0%	0.0%
	Motors	0.0%	0.0%	0.0%	0.0%	0.0%
	Miscellaneous	0.0%	0.0%	0.0%	0.0%	0.0%
	Interior Lighting	4.9%	5.9%	7.10%	2.30%	5.4%
	Water Heating	0.0%	0.0%	14.20%	4.60%	10.7%
	Cooking	0.0%	0.0%	0.0%	0.0%	0.0%
	Air Compressors	0.0%	0.0%	0.0%	0.0%	0.0%
	Cooling	6.7%	8.3%	14.20%	4.60%	10.7%
	Exterior Lighting	9.8%	11.7%	14.20%	4.60%	10.7%
Natural Gas	Cooking	0.0%	0.0%	0.0%	0.0%	0.0%
	Cooling	10.4%	9.3%	4.50%	0.5%	1.0%
	Heating	3.1%	15.9%	4.50%	0.5%	1.0%
	Water Heating	0.0%	0.0%	4.50%	0.5%	1.0%
	Process	0.0%	0.0%	0.0%	0.0%	0.0%
	Miscellaneous	0.0%	0.0%	0.0%	0.0%	0.0%

Baseline Energy Use from Residential Buildings

The 2009 RASS is based on 2008 consumption data, which is assumed to represent a residence compliant with the 2008 Title 24 standards. Nearly all residences surveyed in 2008 were built before this year, and hence, would have been subject to less stringent building energy standards. As such, similar to the CEUS data, the RASS data are likely to overestimate energy use for a 2008 Title 24-compliance residence. However, the RASS data also show that residential energy use is increasing per dwelling unit despite efficiency gains, when the 2009 RASS results are compared to the 2003 RASS results. The increase is due to larger dwelling unit square footage and a general increase in electricity use by appliances and consumer electronics. Continued increases in building energy use will compensate for some of the overestimation of energy use inherent in the assumption that the 2008 RASS data represents a 2008 Title 24 compliant residence.

The 2009 RASS data was compiled in the following manner. The Unit Energy Consumption (UEC) table for End Uses Summarized by Residency Type was used to determine the electricity and natural gas use and saturations for each of the end uses.

Program residential land uses were matched to the RASS categories as shown in Table 2.

Table 2
Program Land Use Matchings to 2009 RASS Residence Type

Program Residential Land Use	RASS Residence Type
Apartments High Rise	5+ Unit Apt
Apartments Low Rise	2-4 Unit Apt
Apartments Mid Rise	5+ Unit Apt
Condo/Townhouse	Town Home
Condo Townhouse High Rise	5+ Unit Apt
Congregate Cate (Assisted Living)	5+ Unit Apt
Mobile Home Park	Mobile Home
Retirement Community	2-4 Unit Apt
Single Family Housing	Single Family

The data were refined by substituting the data in the End Uses Summarized by Forecast Zones tables, which contain refined data for “weather sensitive end uses,” differentiated by climate zone. As a final data refinement, the data contained in the Weather Sensitive End Uses by Climate Zone tables was substituted as applicable. These tables contain data for weather sensitive end uses differentiated by climate zone and residency type. From whichever RASS data table the UEC originated, the corresponding saturation fraction was used.

Similar to the CEUS dataset, a correction factor was applied to the 2009 RASS data to account for energy efficiency improvements from the 2013, 2016, and 2019 Title 24 standards. The Title 24 reductions were taken from the “Impact Analysis, California’s 2013 Building Energy Efficiency Standards,” “Impact Analysis 2016 Update to the California Energy Efficiency Standards for Residential and Nonresidential Buildings,” and “Impact Analysis 2019 Update to the California Energy Efficiency Standards for Residential and Nonresidential Buildings”⁶ reports and applied to the Title 24 end uses as shown in Table 3, Table 4 and Table 5.

⁶ <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards>

Table 3
Reduction in Title 24 Regulated End Use for Residential Buildings From 2008 to 2013

Energy Source	End Use (As presented in RASS Dataset)	Reduction from 2008 to 2013		
		Multi-family	Single family	Town home
Electricity	Conv. Electric heat	23.3%	36.4%	23.3%
	HP Eheat	23.3%	36.4%	23.3%
	Aux Eheat	23.3%	36.4%	23.3%
	Furnace Fan	23.3%	36.4%	23.3%
	Central A/C	23.3%	36.4%	23.3%
	Room A/C	23.3%	36.4%	23.3%
	Evap Cooling	23.3%	36.4%	23.3%
	Water Heat	23.3%	36.4%	23.3%
	Solar Water Heater	0.0%	0.0%	0.0%
	Dryer	0.0%	0.0%	0.0%
	Clothes Washer	0.0%	0.0%	0.0%
	Dish Washer	0.0%	0.0%	0.0%
	First Refrigerator	0.0%	0.0%	0.0%
	Second Refrigerator	0.0%	0.0%	0.0%
	Freezer	0.0%	0.0%	0.0%
	Pool Pump	0.0%	0.0%	0.0%
	Spa	0.0%	0.0%	0.0%
	Outdoor Lighting	0.0%	0.0%	0.0%
	Range/Oven	0.0%	0.0%	0.0%
	TV	0.0%	0.0%	0.0%
	Spa Electric Heat	0.0%	0.0%	0.0%
	Microwave	0.0%	0.0%	0.0%
	Home Office	0.0%	0.0%	0.0%
	PC	0.0%	0.0%	0.0%
	Water Bed	0.0%	0.0%	0.0%
	Well Pump	0.0%	0.0%	0.0%
Miscellaneous	0.0%	0.0%	0.0%	
Natural Gas	Primary Heat	3.8%	6.5%	3.8%
	Auxiliary Heat	3.8%	6.5%	3.8%
	Conv. Gas Water Heat	3.8%	6.5%	3.8%
	Solar Water Heat w/Gas Backup	3.8%	6.5%	3.8%
	Dryer	0.0%	0.0%	0.0%
	Range/Oven	0.0%	0.0%	0.0%
	Pool Heat	0.0%	0.0%	0.0%
	Spa Heat	0.0%	0.0%	0.0%
	Miscellaneous	0.0%	0.0%	0.0%

Table 4
Reduction in Title 24 Regulated End Use for Residential Buildings from 2013 to 2016

Energy Source	End Use (As presented in RASS Dataset)	Reduction from 2013 to 2016		
		Multi-family	Single family	Town home
Electricity	Conv. Electric heat	15.20%	11.70%	15.20%
	HP Eheat	15.20%	11.70%	15.20%
	Aux Eheat	15.20%	11.70%	15.20%
	Furnace Fan	15.20%	11.70%	15.20%
	Central A/C	15.20%	11.70%	15.20%
	Room A/C	15.20%	11.70%	15.20%
	Evap Cooling	15.20%	11.70%	15.20%
	Water Heat	15.20%	11.70%	15.20%
	Solar Water Heater	0.0%	0.0%	0.0%
	Dryer	0.0%	0.0%	0.0%
	Clothes Washer	0.0%	0.0%	0.0%
	Dish Washer	0.0%	0.0%	0.0%
	First Refrigerator	0.0%	0.0%	0.0%
	Second Refrigerator	0.0%	0.0%	0.0%
	Freezer	0.0%	0.0%	0.0%
	Pool Pump	0.0%	0.0%	0.0%
	Spa	0.0%	0.0%	0.0%
	Outdoor Lighting	0.0%	0.0%	0.0%
	Range/Oven	0.0%	0.0%	0.0%
	TV	0.0%	0.0%	0.0%
	Spa Electric Heat	0.0%	0.0%	0.0%
	Microwave	0.0%	0.0%	0.0%
	Home Office	0.0%	0.0%	0.0%
	PC	0.0%	0.0%	0.0%
	Water Bed	0.0%	0.0%	0.0%
Well Pump	0.0%	0.0%	0.0%	
Miscellaneous	0.0%	0.0%	0.0%	
Natural Gas	Primary Heat	30.70%	21.00%	30.70%
	Auxiliary Heat	30.70%	21.00%	30.70%
	Conv. Gas Water Heat	30.70%	21.00%	30.70%
	Solar Water Heat w/Gas Backup	30.70%	21.00%	30.70%
	Dryer	0.0%	0.0%	0.0%
	Range/Oven	0.0%	0.0%	0.0%
	Pool Heat	0.0%	0.0%	0.0%
	Spa Heat	0.0%	0.0%	0.0%
	Miscellaneous	0.0%	0.0%	0.0%

Table 5
Reduction in Title 24 Regulated End Use for Residential Buildings from 2016 to 2019

Energy Source	End Use (As presented in RASS Dataset)	Reduction from 2016 to 2019		
		Multi-family	Single family	Town home
Electricity	Conv. Electric heat	78.7%	79.0%	78.7%
	HP Eheat	78.7%	79.0%	78.7%
	Aux Eheat	78.7%	79.0%	78.7%
	Furnace Fan	78.7%	79.0%	78.7%
	Central A/C	78.7%	79.0%	78.7%
	Room A/C	78.7%	79.0%	78.7%
	Evap Cooling	78.7%	79.0%	78.7%
	Water Heat	78.7%	79.0%	78.7%
	Solar Water Heater	0.0%	0.0%	0.0%
	Dryer	0.0%	0.0%	0.0%
	Clothes Washer	0.0%	0.0%	0.0%
	Dish Washer	0.0%	0.0%	0.0%
	First Refrigerator	0.0%	0.0%	0.0%
	Second Refrigerator	0.0%	0.0%	0.0%
	Freezer	0.0%	0.0%	0.0%
	Pool Pump	0.0%	0.0%	0.0%
	Spa	0.0%	0.0%	0.0%
	Outdoor Lighting	0.0%	0.0%	0.0%
	Range/Oven	0.0%	0.0%	0.0%
	TV	0.0%	0.0%	0.0%
	Spa Electric Heat	0.0%	0.0%	0.0%
	Microwave	0.0%	0.0%	0.0%
	Home Office	0.0%	0.0%	0.0%
	PC	0.0%	0.0%	0.0%
	Water Bed	0.0%	0.0%	0.0%
	Well Pump	0.0%	0.0%	0.0%
Miscellaneous	0.0%	0.0%	0.0%	
Natural Gas	Primary Heat	4.7%	9.4%	4.7%
	Auxiliary Heat	4.7%	9.4%	4.7%
	Conv. Gas Water Heat	4.7%	9.4%	4.7%
	Solar Water Heat w/Gas Backup	4.7%	9.4%	4.7%
	Dryer	0.0%	0.0%	0.0%
	Range/Oven	0.0%	0.0%	0.0%
	Pool Heat	0.0%	0.0%	0.0%
	Spa Heat	0.0%	0.0%	0.0%
	Miscellaneous	0.0%	0.0%	0.0%

Introduction

This paper recommends electricity energy use rates to calculate the energy consumption from the operation of car parking facilities in California. The energy uses considered include lighting, ventilation, and elevator use. Recommendations apply to open air parking lots, parking facilities with open walls and access to fresh air, and fully enclosed parking facilities, such as those that are underground, and require ventilation systems. These energy use rates allow the user to calculate lighting, ventilation and elevator use energy impacts separately.

Purpose

This effort was undertaken in conjunction with the CalEEMod Land Use Model (“CalEEMod”) 2012 updates. Our intent is to determine if enough information is available to support the development of energy use rates for parking facilities in CalEEMod, and if so, what these recommended energy use rates should be.

Limitations

Energy use rates from water pumps, for fire safety systems or for storm water removal, were not considered because CalEEMod does not include emissions estimates from any stationary sources located at land use development projects. Our research has not identified energy use rates for operational systems, such as from systems designed to collect payments or secure the property, such as computer, ticketing, camera surveillance, or automated and human-activated gate systems. To our knowledge, research is not available to determine in which situations or size of facilities these systems would be utilized. Likewise, research is not available to determine in which situations parking facilities include energy use from natural gas, heating, cooling, and water delivery. Therefore, these energy use rates are not considered.

Proposed Energy Use Rates: Lighting and Ventilation

Energy Star is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy to promote energy efficient products and practices. As part of a larger project to evaluate the efficiency of buildings, Energy Star developed energy factors for parking facilities based on data from the American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE), and a review of existing building codes and local ordinances in the United States. **Table 1** below presents factors for energy use in parking facilities, based on the Energy Star “Performance Ratings Technical Methodology for Parking” technical paper.¹

Table 1: Energy Use for Lighting and Ventilation by Parking Type			
		Hourly Watts or Horse Power Per Square Foot	Assumed Hours of Operation
Open Parking	Lighting	0.15 W/ft ²	16 hours/day
	Ventilation	none	
Unenclosed Parking (no walls)	Lighting	0.30 W/ft ²	24 hours/day
	Ventilation	none	
Fully Enclosed Parking (walls)	Lighting	0.30 W/ft ²	24 hours/day
	Ventilation ⁽¹⁾⁽²⁾	0.6 hp/1,000 ft ²	

Notes:

- Ventilation is characterized in terms of flow rate (cubic feet per minute per square foot, cfm/ft² equals 0.6 horse power per 1,000ft²).
- One horse power (hp) is equal to 0.746 kiloWatts.

Table 2 shows the results of these factors in annual kWh per square foot of parking area.

Table 2: Energy Use for Lighting and Ventilation by Parking Type					
Type of Parking	Use	Days/Year	Hours/Day	Annual kWh/SqFt	Total Annual kWh/SqFt
Open Parking	Lighting	365	16	0.876	0.876
	(No) Ventilation				
Unenclosed Parking (no walls)	Lighting	365	24	2.63	2.63
	(No) Ventilation				
Fully Enclosed Parking (walls)	Lighting	365	24	2.63	6.55
	Ventilation			3.92	

The Energy Star energy rates are generally consistent with California Title 24 standards. The Title 24 year 2008 standard for indoor parking structure lighting is 0.30 Watts per foot squared; Title 24 year 2005 outdoor parking lighting standard is 0.15 Watts per foot squared; and the proposed Title 24 year 2013 standard for ventilation is 0.6 horse power per 1,000 feet squaredⁱⁱ. We have not identified any other sources to compare these factors to that are more appropriate. Note that the energy intensity of parking structures is one of the few land uses that the California Energy Commission (CEC) does not include in the California Commercial End-Use Survey (CEUS) analysisⁱⁱⁱ.

None of the other land uses already accounted for in CalEEMod have energy use rates as low as the Energy Star rates for parking facilities, and this is to be expected. Based on the analysis above, parking facilities use between 0.05 and 0.40 kW per square foot per year, and this is much lower when compared to some of the land uses already represented in CalEEMod. The lower end of electric energy rates in CalEEMod includes manufacturing, unrefrigerated warehouses and racquet ball clubs. Depending upon the climate zone, CalEEMod estimates the kW per square foot in unrefrigerated warehouses to be between 3 and 10 kW, and for racquet clubs between 2 and 12 kW. While this doesn't confirm the appropriateness of the Energy Star energy use rates, it is reasonable that parking facilities would have lower energy use rates than other uses.

Proposed Energy Use Rates: Elevators

There are various elevator energy calculations available on the web^{iv}. To our knowledge, none are independently verified by a public, private or government agency. This section presents three energy use rates for elevators. Energy use rates will depend on the manufacturer, the type and size of elevator, how many floors the elevator serves, the idle mode settings selected, how often the elevator is used and with how many people. For example, buildings with seven or fewer floors may use elevators powered by hydraulic motors, whereas buildings with eight or more floors will need more powerful and energy-intensive “geared or gearless traction” elevators. These elevators are driven by direct current motor-generator sets (DC MG), silicon controlled rectified (SCR) DC motors, or variable voltage variable frequency (VVVF) drives coupled to alternate current (AC) motors. All of these configurations provide variable and high-speed operation and provide regeneration, but exhibit different operating efficiencies^v.

For our purposes, it is assumed that a parking structure elevator will serve ten or fewer floors. Elevators serving more than 10 floors are likely to be located in buildings with uses in addition to parking, and therefore CalEEMod will assume the energy use rates (including elevator use) associated with the other land uses in its calculations.

Table 3 presents the **first example**. Dover Elevators has calculated the average kWh required per day for a single elevator equipped with MG, SCR, and VVVF drives. Based on these daily estimates, Table 3 calculates the per hour and annual energy use for two to five floors and six to ten floors based on the type of elevator technology employed.

Table 3: Average Energy Consumption (kWh) for 2,500 Pound Capacity Elevators ⁽¹⁾						
Number of Floors	kW Energy Use Based On How Electrical Current is Controlled (per hour)					
	Variable Voltage Variable Frequency (VVVF)		Silicon Controlled Rectified (SCR)		DC MG Sets (MG)	
2 to 5	3.875		6.625		9	
6 to 10	4.875		6.75		9.5	
Number of Floors	kW Energy Use Based On How Electrical Current is Controlled (per year) ⁽²⁾					
	16 hrs/day	24 hrs/day	16 hrs/day	24 hrs/day	16 hrs/day	24 hrs/day
2 to 5	22,630	33,945	38,690	58,035	52,560	78,840
6 to 10	28,470	42,705	39,420	59,130	55,480	83,220

Notes:

1. Based on calculations from Dover Elevators.
2. Combines calculations from Dover Elevators and Energy Star assumptions about hours of operations per day.

The **second example** is cited in the California Energy Commission (CEC) *2013 Nonresidential ACM Manual – Draft Version*, June 2011, (the “CEC Draft Manual”)^{vi}. These estimates are based on a TIAX

report cited by the U.S. Energy Information Administration entitled, “Commercial and Residential Spector Miscellaneous Electricity Consumption: Y2005 and Projections to 2030” (the “TIAX Report”) and includes buildings with at least 50 percent of space dedicated to non-residential uses, including agricultural, industrial, schools, and institutional uses^{vii}. **Table 4** below presents unit energy consumption data from a sample of approximately 5,200 buildings for 2,500 pound capacity elevators, based on time spent in different elevator modes – active, ready, standby, and off:

Elevator Mode	Percent of Time in Each Mode	Annual Hours in Each Mode	kWh Use in Each Mode	Annual kWh
Active	3%	300	10	300
Ready	84%	7,365	0.5	3683
Standby	13%	1,095	0.25	274
Off	0%	0	0	0
Total	100%	8760 ⁽²⁾	11	6,956 ⁽³⁾

Notes:

1. TIAX LLC. *Commercial and Residential Spector Miscellaneous Electricity Consumption: Y2005 and Projections to 2030*. September 22, 2006.
2. Assumes operation 365 days per year for 24 hours per day.
3. This energy use represents rates from 2003 projected out to 2005. Year 2005 shows only a slight decrease from the year 2003 baseline.

The differences in energy use estimates in Table 3 and Table 4 is astonishing. The TIAX Report estimates the energy use from the average 2,500 pound capacity elevator to be approximately 20 percent of the kWhs needed for a 24-hour day of the least-energy intensive elevator in the Dover estimates.

The **third example** is based on calculations provided by Kone Elevators documenting the energy savings between a hydraulic elevator and Kone’s elevators with the most energy efficient features selected.^{viii} These features include energy-saving LED lighting, standby modes for lights, signalization, ceiling fans, and destination control systems, a lightweight hoisting system, and energy regenerating technology. According to Kone, the bulk of energy use in hydraulic elevators comes from the hoisting system. **Table 5** below is based on the information presented by Kone on annual energy consumption from hydraulic elevators and its “EcoSpace” option.

Energy Use	Hydraulic Elevator (kWh/year)	Kone EcoSpace Elevator (kWh/year)	Percent Reduction
Lighting	2,015	153	- 92%
Electrification	1,139	1,360	+19%
Hoisting	6,024	895	-85%
Total	9,178	2,408	-74%

Notes:

1. Based on information provided by Kone, Inc.

These estimates are based on a 3,500 pound capacity serving four floors with 200,000 starts per year, or 34 starts an hour, assuming 16 hours of operation per day.

Evaluation of Data

It is a challenge to compare the three available examples. The Dover (*first example*) data are detailed and offer specifics about energy use based on the types of elevator systems, but no information on the usage, such as hours per day of operation, speed, or starts per day. This source also presents energy consumption much higher than the other two sources. The Dover information was collected from a website maintained by Washington State University and the Western Area Power Administration and is not dated. It is not clear if these data are current. The Kone (*third example*) estimates are also based on very specific elevator specifications that will not necessarily transfer to our application, which requires a much more general approach. It is not anticipated that CalEEMod users will have detailed information about the size, capacity, usage rates, and type of elevators (hydraulic, geared or gearless traction, etc.) or other specifications, such as type of lighting or ceiling fans selected.

The CEC Draft Manual reports that that elevators are custom designed for each building and “little information is known on how to model elevators.” Our research also resulted in few sources that were either specific to the manufacturer or very general.

TIAX (*second example*) is a reliable and reputable company who has conducted a robust study (5,200 buildings) of a variety of elevator types that would be more reflective of the real world and provides a simpler and direct method of determining energy use from an average-used elevator. The question still remains as to whether there is a standard in determining the number of elevators for a size of a parking lot. However, aside from the Americans with Disabilities Act requiring “one passenger elevator serving each level in all multi-story buildings,” a building code does not seem to exist requiring how many per size or square footage. It should be noted that the Americans with Disabilities Act does allow parking structures that provide the correct number of accessible spaces on the ground floor to not install an elevator^{ix}. As elevators would increase building costs and consume valuable square feet, it seems reasonable to conclude that parking structures are constructed with as few elevators as required by local building codes.

The TIAX Report does include energy use rate projections for a selected future year (2015, 2020, etc.) based on project build out year^x but, at this time, such programming would be more complex and would require more information from the User. Thus, it is concluded for the default to use a fixed value in time.

Ultimately, decisions regarding the number of elevators is left to the developer who may choose based on a number of reasons. However, there are other sources, including this “rule of thumb” based on all modern American construction (not just commercial buildings):

Table 6: Estimates for Number of Elevators Needed ⁽¹⁾			
No. of Floors	Building Meters Squared (gross)	Building Square Feet (gross)	Recommended No. of Elevators
Up to 3	5,000	53,820	1
4 or more	6,000	64,583	2
4 of more	10,000	107,639	3

Notes:

1. Bhatia, A. *Building Elevator Systems*, CED Engineering.com. Course No: A06-001. Note that if elevators are distributed throughout the building, instead of at a centralized bank of elevators, to account for inefficiencies and imbalances in demand, increase the number of elevators by 60 percent.

Using TIAX study conclusion that one 2500 pound elevator consumes 7,000 kWh per year (Table 4) and the number of elevators for a particular sized parking lot (Table 6), data can be extrapolated to determine the energy factor to apply (Table 7).

Table 7: Annual kWh per Square Foot			
Gross Sq Ft	Elevators	Annual kWh	Annual kWh/square foot
54,000	1	7000	0.13
65,000	2	14000	0.22
108,000	3	21000	0.19
162,000	4	28000	0.17
216,000	5	35000	0.16
270,000	6	42000	0.16
324,000	7	49000	0.15
378,000	8	56000	0.15
432,000	9	63000	0.15
486,000	10	70000	0.14
540,000	11	77000	0.14
594,000	12	84000	0.14
648,000	13	91000	0.14
702,000	14	98000	0.14
756,000	15	105000	0.14
810,000	16	112000	0.14
864,000	17	119000	0.14
918,000	18	126000	0.14
972,000	19	133000	0.14
1,026,000	20	140000	0.14
1,080,000	21	147000	0.14
1,134,000	22	154000	0.14
1,188,000	23	161000	0.14

Conclusion

For the purposes of estimating energy use rates in parking lots and structures in California, CalEEMod should base energy use rate assumptions on the Energy Star estimates for lighting and ventilation. That would require CalEEMod to establish the following new sub-land uses (*with energy impact calculated*) under Parking:

1. Parking lot (*lighting energy use only*)
2. Unenclosed parking structure (*lighting energy use only*)
3. Enclosed parking structure (*lighting and ventilation energy use*)
4. Unenclosed parking structure with elevator (*lighting and elevator energy use*)
5. Enclosed parking structure with elevator (*lighting, ventilation, and elevator energy use*)

The default energy factor (annual kWh/square foot) recommended and used in CalEEMod is 0.19 annual kWh/sq ft which is based on the real data in Tables 4 and 6 and not the highest or lowest factor. CalEEMod will provide the ability for the User to override the default factor if the number of elevators is known (per total square feet) and is different than the default. For example, if a parking lot structure is known to be 200,000 sq ft with 6 elevators, then using the 7,000 annual kWh/elevator x 6 elevators is 42,000 annual kWh/200,000 sq ft equals a new factor of 0.21 annual kWh/sq ft that would be used to replace the CalEEMod default factor of 0.19 annual kWh/sq ft. In addition, if new data is known about kWh usage from a particular elevator (e.g., green elevator technology), the same methodology could be applied replacing the 7,000 annual kWh/elevator with a new known value.

Endnotes

ⁱ [www.energystar.gov/ Energy Star Performance Ratings Technical Methodology for Parking.](http://www.energystar.gov/EnergyStarPerformanceRatingsTechnicalMethodologyforParking)
http://www.energystar.gov/ia/business/evaluate_performance/parking_tech_desc.pdf.

ⁱⁱ Parking and Title 24 standards: We have not adjusted the outdoor parking lighting factors in the Energy Star to meet 2008 or proposed 2013 Title 24 standards, which are lower than 2005 requirements, because additional lighting is often allowed in outdoor zones that are considered in need of additional safety lighting.

ⁱⁱⁱ California Energy Commission. <http://www.energy.ca.gov/ceus/>

^{iv} For example, see <http://www.thyssenkruppelevator.com/energy%20calculator/energy.aspx> and http://www.kone.com/media/en_US/green/index.html

^v Washington State University and Western Area Power Administration. [Energyexperts.org.](http://energyexperts.org/EnergySolutionsDatabase/ResourceDetail.aspx?id=1709)
<http://energyexperts.org/EnergySolutionsDatabase/ResourceDetail.aspx?id=1709>

^{vi} CEC 2013 Nonresidential ACM Manual – Draft Version (CEC Alternative Calculation Method – June 2011).
http://www.energy.ca.gov/title24/2013standards/prerulemaking/documents/2011-06-21_workshop/review/2013_NACM_Approval_Manual_Draft.pdf. The CEC website reports the final document will be released in January 2013.

^{vii} TIAX LLC. *Commercial and Residential Spector Miscellaneous Electricity Consumption: Y2005 and Projections to 2030*. September 22, 2006. http://wpui.wisc.edu/news/EIA%20Posts/TIAX_EIA_MiscElecReport.pdf

^{viii} Kone. *Kone Eco-efficient Solutions* (Brochure); *Elevator Energy Calculation Report*, 10/11/2011. Provided by Kone, Inc.

^{ix} Email communication with the US Access Board (tel: 800-872-2253 email: ta@access-board.gov). The US Access Board referred us to local building codes to determine elevator requirements.

^x Table 4 above presents the 2003 energy use average projected to 2005. The TIAX Report projects elevator energy use rates out in 5 year increments to 2030, however, the estimated decrease in energy use is slight between year 2005 and 2030 and unlikely to affect model results.

Three Studies were Conducted in 2012 on the Amount of Parking Lot Area was Painted (for parking stalls, markings, etc)

Since the release of CalEEMod v2011.1.1, the percentage of space in parking lots that is painted has been questioned, so it was decided to re-evaluate the default currently used. A literature search was performed, but no studies were identified that provided information on the amount of coatings used for parking lots. As a result, contractors were contacted to assist in this research effort. It was determined that most contractors contacted use large volume containers of coatings and do not keep record of the specific amount used on individual parking lot jobs. Consequently, three of the California air district provided data on their own lots and the size of area painted to generate the following data. The compilation relies on the assumption that only one coat of paint was used to make the markings (e.g., stall lines, handicap symbols, no-parking curbs, traffic direction arrows, etc.). The results of the three studies showed a range in percentage of coatings applied. Because the sample size is so small, it was decided to set the default at the highest percentage of the 3 studies (6 percent of total square footage area). Using the highest percentage would also generate a more conservative impact evaluation of VOC emissions from coatings on parking lots. As additional information is obtained the default will be reevaluated and modified as necessary.

SMAQMD Parking Garage Painted Area Calculation (May 15, 2012)

19,000	Gross square footage of parking garage	4 inches - width of stall painted line
1,000	Subtract office, storage cage, etc.	192 inches - length of side stall line
18,000	Net parking garage square footage	96 inches - length of top stall line
17	2 deep parking stalls	4 inches - width of stall painted line
3456	square inches for a 2 deep parking stall paint	216 inches - length of side stall line handicapped
407.7	square feet for 17 2 deep parking stalls paint	108 inches - length of top stall line handicapped
12	3 deep parking stalls	
5376	square inches for a 3 deep parking stall paint	
447.7	square feet for 12 3 deep parking stalls paint	
4	disabled parking stalls	
2160	square inches for 1 handicapped parking stall paint	
60.0	square feet for 4 handicapped parking stalls paint	
36.0	square feet of paint for handicapped square parking signs (4 of them) (3 feet x 3 feet squares)	
14.0	square feet of no parking signs next to handicapped stalls (4 of them) (3.5 feet x 1 feet rectangles)	
77.0	square feet of extra space/diagonals handicapped area next to and above parking stall (5 8 feet diagonals, 4 11 feet diagonals, 5 6 feet diagonals, 13 9 feet diagonals)	
1042.4	square feet for paint in SMAQMD parking garage	
5.8%	percent of total square footage of parking garage	

Actual Surface Area Painted & Emissions - South Coast AQMD Parking Lot

(June 2012)

Line Type	Width (ft)	Length (ft)	Quantity	Total Painted Surface Area (sq ft)
Parking Stall Lines	0.33	18	224	1343.87
"Compact" Denotation	1.00	5	7	35.00
Arrows	4.00	3.5	6	84.00
"Slow 5 MPH" Denotation	5.00	6	2	60.00
Handicap Lines	0.33	18	8	48.00
Handicap Symbol	3.00	3	4	36.00
No Parking Red Curbs	0.50	32	4	64.00
No Parking Red Curbs	0.50	13	2	13.00
No Parking Red Curbs	1.00	20	1	20.00
No Parking Red Curbs	0.50	11	2	11.00
"Stop" Denotation	6.00	8	1	48.00

$A_{actual} =$	1763	Total Actual Painted Surface Area (sq ft) South Coast
	37,869	AQMD Repaved Parking Lot Area (sq ft)
	4.7%	% Painted Using Single Coat

NOTE: The South Coast AQMD's parking stalls were separated by single lines (112), however, most commercial/recreational parking lots use double lines (224).

Actual Surface Area Painted & Emissions - SLO County APCD Parking Lot (June 2012)

Line Type	Width (ft)	Length (ft)	Quantity	Total Painted Surface Area (sq ft)	Width (inches)
Parking Place	0.33	18	29	174.00	4
Handicap Lines	0.33	9	5	15.00	4
Handicap Symbol	3.50	3.5	1	12.25	-
Bike Locker Protection	0.33	4	7	9.33	4
Red Curbs - Horizontal Paint	0.33	232	1	77.33	4
Red Curbs - Vertical Paint	0.50	232	1	116.00	6

$A_{actual} =$	404	Total Actual Painted Surface Area (sq ft)
	14,900	APCD Parking Lot Size (sq ft)
	2.7%	% Painted Using Single Coat

Appendix E8 - Default Water Use For Industrial Land Uses

Default Water Use Determination for Industrial Land Uses (for Version 2013.2 and later)

Since the release of CalEEMod v2011.1.1, the default water usage from industrial land uses has been questioned, so it was decided to re-evaluate the default currently used. The following are the assumptions used to determine the operation period of a typical industrial facility and the published water usage values (see web link). Specifically for industrial land use categories, the default water use rate is 925 gallons/workday/thousand square feet. This value was computed by dividing the annual water use in California industry (Table ES-6 in Gleick et al. 2002) by the industrial work area in California (Dun & Bradstreet, Business Population Report aggregated by Standard Industrial Classification (SIC) and Census Block, May 2002) where 225 was the annual number of workdays in a year.

365 days/year
7 days/week
52.14 weeks/year
5 Workdays/week
260.71 Potential Workdays/year
36 Average Holidays + Maintenance Shutdowns/year
225 Probable Days/year of Industrial Operations
AF Acre-foot
SF Square-foot

225 Industrial Work Days - see *CalEEMod User Manual Appendix A*
TAF; *Best Estimate of Water Use/year by California Industry - As identified in Table ES-665 6 of Gleick et al. 2003* :
www.pacinst.org/reports/urban_usage/waste_not_want_not_full_report.pdf
2,955.6 AF/Work Day ; *Best Estimate of Water Used by CA Industry/Industrial Work Day*
325,851.4 Gal/AF (conversion)
963,071,916 Gal Used by CA Industry/Industrial Work Day
TSF of Industrial Work Area in CA - *As identified by: Dun & Bradstreet, Business Population Report aggregated by Standard Industrial Classification (SIC) and Census Block, May 2002, the Industrial component reference identified in the CalEEMod User Manual Appendix E on Consumer Products.*

925 Gals/WorkDay/TSF

Default Solid Waste Generation for Industrial Land Uses *(for version 2013.2 and later)*

Since the release of CalEEMod v2011.1.1, the default solid waste generation from industrial land uses has been questioned, so it was decided to re-evaluate the default currently used. There is limited information available linking employment and solid waste generation for the various individual industrial land uses types as analyzed in CalEEMod. However, the Southern California Association of Governments (SCAG) that represents the six-county region of Los Angeles, Orange, Ventura, Riverside, San Bernardino and Imperial counties conducted a study in 2001 called the 'Employment Density Study' (http://www.scag.ca.gov/forecast/downloads/employ_den.pdf). Given the known challenge in locating statewide data and the fact that SCAG data represents close to half the state's population, the information is quasi-applicable to the state. In the study, SCAG identifies the following region-wide median employment densities for these specific industrial land use types:

Light manufacturing = 924 square foot (sq ft)/employee
Warehouse = 1,225 sq ft/employee

Using the 1999 CalRecycle Waste Characterization generation rate of 1.15 tons/employee/year, it has been determined to modify the current default of solid waste generation for industrial land use types using the following rates in CalEEMod:

Warehouses (all types) = 0.94 tons/1000 sq ft/year
All other industrial = 1.24 tons/1000 sq ft/year

Employee based rate for all industrial uses = 1.15 tons/employee/year

These rates seem more in line with other land use generation rates and also have the advantage of using employment densities that correspond more closely with trip generation rates.

Default N Load Factor for Wastewater Calculations (for version 2013.2 and later)

Since the release of CalEEMod v2011.1.1, the Sanitation Districts of Sacramento and Los Angeles have raised a concern that the default N load factor of 40mg/L from USEPA's database (2008) is too high. The N load is the mass of nitrogen discharged per volume of wastewater effluent. The factor is used in calculating nitrous oxide emissions produced when treated wastewater is discharged in aquatic environments such as rivers and estuaries. A high N load factor will overestimate the GHG emission throughout much of the State. US EPA has provided an online database (http://cfpub.epa.gov/dmr/ez_search.cfm) for plant-specific effluent results for various pollutants including nitrogen. Performing a query just for California, calculations show that the statewide average would be **26 mg/l** instead of 40 mg/l (current default). CalEEMod does not, at this time, allow the user to enter plant-specific numbers, so the default offers a more representative number for the state.

The following equation was used to determine statewide average:

$$\text{Flow-weighted effluent Nitrogen in California (mg/L)} = 203,953,373 \text{ (N-lbs)/year} \\ * (2586502000 \text{ Gals/day})^{(-1)} * (1 \text{ year} / (365.25 \text{ days})) * (453592.37 \text{ mg/lb}) * (1 \text{ Gal} / 3.785 \text{ l}) = \mathbf{25.87 \text{ mg/l}}$$

The following data was retrieved from the USEPA database (2013) for the equation:

Source: http://cfpub.epa.gov/dmr/ez_search.cfm

Statewide Sum: 203,953,373 lb/yr 2,586,502,000 gal/day

Calif POTWs	Total Pounds (lbs/yr)	Average Flow (MGD)	
CA0107417*	1,020,535	17.4	*Corrected to reflect actual plant effluent as per discussion with plant facility staff
CA0107611*	755,263	15.4	
CA0053813	47,848,683	273	
CA0109991	46,073,447	267	
CA0107409	15,195,624	267	
CA0110604	12,660,447	152	
CA0077682	12,360,199	146	
CA0037664	9,556,191	148	
CA0037702	7,402,404	66.25	
CA0037869	5,197,299	61.4	
CA0038008	5,197,299	61.4	
CA0037613	4,822,150	57.3	
CA0037648	3,237,605	39.5	
CA0107395	2,620,463	24.6	
CA0054097	2,102,347	21.6	
CA0037681	1,886,655	32.4	
CA0053911	1,450,084	57.01	
CA0038318	1,284,429	1.18	
CA0107433	1,113,164	12.4	
CA0037737	962,571	6.88	
CA0048551	949,029	8.038	

Appendix E10 - Default N Load Factor For Wastewater Calculations

CA0037541	913,876	12.2
CA0048194	904,330	8.46
CA0038130	860,572	9.29
CA0038547	778,946	8.77
CA0038628	762,472	9.31
CA0056227	727,201	27.7
CA8000304	709,805	34.8
CA0105350	683,282	29.4
CA8000409	608,790	26.7
CA0038024	562,781	4.606
CA0054011	553,291	19.6
CA0104523	525,445	3.69
CA0079189	504,795	8.46
CA0038539	484,861	8.94
CA0048216	479,712	5.09
CA0048160	456,062	4.054
CA0053856	417,294	13.09
CA0048143	367,016	15.2
CA0054119	362,093	12.2
CA0053953	352,926	14.2
CA0049224	349,790	3.89
CA0107981	349,112	10.3
CA0079103	344,510	10.6
CA0079260	333,956	3.069
CA0104973	316,751	4.015
CA0056294	285,797	9.77
CA7000009	283,784	2.73
CA0037788	262,829	3.41
CA0079219	261,626	8.013
CA0037796	255,924	3.082
CA0108031	254,610	1.21
CA0037842	244,169	100
CA0055221	241,546	8.83
CA0054216	202,111	14.5
CA0104426	196,783	3.54
CA0053651	194,981	5.63
CA0053716	190,189	8.047
CA0038091	182,140	2.52
CA0079138	168,719	26.6
CA0105295	165,877	5.89
CA8000188	162,763	6.23
CA0037532	160,569	1.53
CA0055531	154,954	6.71
CA0104400	145,679	1.24
CA0053619	142,296	4.83
CA0022764	115,563	4.27
CA0054313	110,962	4.97

Appendix E10 - Default N Load Factor For Wastewater Calculations

CA0084573	100,294	6.54
CA0053597	97,150	3.18
CA0082589	94,621	3.37
CA0047996	92,294	0.71
CA8000316	86,643	5.74
CA0079235	84,324	2.97
CA0082660	80,744	3.23
CA0105015	76,603	0.72
CA8000027	74,164	8.066
CA0079651	73,795	1.15
CA0037575	71,906	8.35
CA0056014	67,209	3.36
CA0079154	63,785	9.06
CA8000383	59,920	2.81
CA0079731	59,579	7.42
CA0037621	58,350	11.05
CA0079197	57,484	3.92
CA0079049	52,185	4.65
CA8000326	47,842	3.42
CA0038067	40,548	1.54
CA0079111	36,353	49.2
CA0102695	35,497	0.96
CA0022888	35,088	1.93
CA0077704	34,804	1.22
CA0085235	34,282	1.96
CA0038598	30,598	1.68
CA0037753	30,300	0.63
CA0078671	29,039	1.601
CA0102822	28,556	8.65
CA0037826	27,040	0.74
CA0037711	26,202	2.76
CA0053961	25,767	1.99
CA0109045	24,679	3.54
CA0079022	23,671	0.89
CA0105619	19,761	3.77
CA0023345	19,753	0.91
CA0079511	18,563	0.97
CA0037834	18,079	20.1
CA0079243	16,843	3.025
CA0048127	15,525	2.83
CA0037810	13,909	4.104
CA0022756	13,284	1.67
CA0037851	12,955	2.25
CA0081434	12,534	1.209
CA0079316	12,134	2.201
CA0023060	12,025	0.74
CA0081558	11,221	5.702

Appendix E10 - Default N Load Factor For Wastewater Calculations

CA0078981	10,228	0.54
CA0085260	9,257	0.34
CA0105376	8,569	2.82
CA0037800	7,266	2.18
CA8000395	6,652	0.58
CA0024449	6,336	9.048
CA0054372	6,277	0.38
CA8000100	5,890	0.81
CA0078891	4,768	1.48
CA0038776	4,591	3.017
CA0084727	4,292	0.107
CA0077712	4,075	1.56
CA0107492	3,943	0.84
CA0022730	3,912	0.42
CA0038768	2,485	3.019
CA0084239	2,480	0.063
CA0078948	2,146	9.86
CA0025135	1,521	1.12
CA0078662	1,493	4.71
CA0037770	1,309	1.72
CA0084271	1,252	0.54
CA0048151	1,059	1.074
CA0079898	787	2.25
CA0079081	749	6.54
CA0047364	743	1.33
CA0079502	706	9.209
CA0078956	613	0.74
CA0078590	481	1.65
CA0083771	480	0.19
CA0004995	418	0.71
CA0047899	248	0.95
CA0084476	216	2.15
CA0078034	194	0.73
CA0107999	191	1.77
CA0077828	184	0.38
CA0085201	117	0.095
CA0077836	115	1.57
CA0024490	0.033	4.40E-07
CA0005241	0	0
CA0022977	0	0
CA0023355	0	0
CA0048828	0	0.71
CA0049675	0	0
CA0059501	0	0
CA0064556	0	0
CA0077691	0	8.45
CA0077950	0	5.078

Appendix E10 - Default N Load Factor For Wastewater Calculations

CA0081485	0	0
CA0108944	0	0
CA0110116	0	0.34
	203,953,373	2586.50

Appendix E11 – Additional References

Midwest Research Institute (MRI). 1988. Gap Filling PM₁₀ Emission Factors for Selected Open Area Dust Sources Final Report. EPA Contract No. 68-02-4395. March 1. EPA 450/4-88-003.

United States Environmental Protection Agency (US EPA). 1992. Fugitive Dust Background Document and technical Information Document for Best Available Control Measures. Research Triangle Park, NC. Office of Air Quality Planning and Standards. EPA 450/2-92-004. September.

US EPA. AP 42, Fifth Edition Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources. Available online at:

<https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emissions-factors#5thed>

February 13, 2023

Peter Jones
Project Management Advisors, Inc
 420 Stevens Avenue, Suite 170
 San Diego, CA 92075
 Via email: peterj@pmainc.com

**Re: BioMed Realty - Towne Centre View
 EIR - Schedule**

Dear Peter,

Hathaway Dinwiddie is the Contractor for the project. Hathaway Dinwiddie has built millions of square feet of development in California. As part of our work on the project, we were tasked with developing a construction schedule. In consultation with civil engineers, designers, local San Diego construction experts, and construction managers, we developed the construction schedule in the EIR. Construction is always a dynamic process, the actual construction schedule is likely to deviate somewhat from the construction schedule in the EIR. But the schedule provided in the EIR is a realistic schedule. And from an air-quality perspective, it is conservative. If anything, construction is likely to be extended, based on the current building boom and the limited availability of equipment, skilled crews, etc.

Blum Collins submitted a comment letter stating “Until a proper source is provided for the individual construction phase lengths, the model should have proportionately altered the default phase lengths to match the proposed total construction duration of 68 months.” Urban Crossroads prepared such a modified schedule below as requested by Blum Collins.

Default Schedule of Phases and days of construction from CalEEMod. This yields approximately 28 months. Therefore to proportionally adjust to 68 months we can multiply the total days by $(68 \div 28)$ or ~2.43.

Phase Type	Start Date	End Date	Days/Week	Total Days
Demolition	04/04/2022	05/13/2022	5 Days/Week	30
Site Preparation	05/14/2022	06/10/2022	5 Days/Week	20
Grading	06/11/2022	08/12/2022	5 Days/Week	45
Building Construction	08/13/2022	04/19/2024	5 Days/Week	440
Paving	04/20/2024	06/07/2024	5 Days/Week	35
Architectural Coating	06/08/2024	07/26/2024	5 Days/Week	35

The resulting schedule would be as shown below and represents an approximate 68 month schedule proportionally adjusted based on the defaults above.

Phase Type	Start Date	End Date	Days/Week	Total Days
Demolition	04/04/2022	7/13/2022	5 Days/Week	73
Site Preparation	7/14/2022	9/20/2022	5 Days/Week	49
Grading	9/21/2022	2/20/2023	5 Days/Week	109
Building Construction	2/21/2023	3/26/2027	5 Days/Week	1,069
Paving	3/27/2027	7/23/2027	5 Days/Week	85
Architectural Coating	7/24/2027	11/19/2027	5 Days/Week	85

I reviewed this default schedule from CalEEMod, and it is not realistic for a project of this size. The project is a million square foot, Class A development for technology headquarters building—a very unique development in San Diego. This default schedule appears to be for much smaller projects. For example the default schedule does not even have an entry for utilities, but installing utilities will be a major effort at a site like this. In sum, the default schedule from CalEEMod is not realistic, and the commenters appear to have limited understanding the logistics for large construction projects in San Diego.

Sincerely,



Sara Carmody
Sr. Vice President

Cc: PMA: Ken Richter
HDCCo: Darin Peters, Garth Barrett

Perkins&Will

Memo

Date: 2.6.2023

To: Peter Jones, PMA

From: Kelly Schnell, Perkins&Will

BioMed Realty Towne Center View

Painting Scope

The exterior building envelope is comprised of painted metal panels and insulated vision glazing units within aluminum frames. Any metals that are part of the façade system will be finished off-site within a controlled factory environment and then assembled on-site.

The project scope includes only “core and shell”, meaning that only the exterior façade and interior core elements (elevators, stairs, restrooms, shafts, and back-of-house building support spaces) are being planned and finished at this time. This limited interior scope means that interior painting will be kept to a minimum at initial delivery. For interior core spaces requiring paint, paints will comply with the VOC content limits as stated in CARB 2007 Suggested Control Measure for Architectural Coatings (50 f/L for flat coatings and 100 g/L for non-flat coatings). A larger interiors fit-out will be undertaken when a building tenant is selected.