

Appendix B:

Vehicular Greenhouse Gas Emissions Calculation Table

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Vehicular Greenhouse Gas Emissions**

Year	Daily VMT ¹	Annual VMT	Fuel Economy (MPG) ²	Total Gasoline Consumption (gallons)	Emission Factors (Lbs./Gallon of Gasoline) ³			Total Vehicular Emissions by GHG (tons)			Global Warming Potential ⁴			Carbon Dioxide Equivalent Emissions (tons)			Total Vehicular GHG Emissions (tons)
					CO ₂	CH ₄	N ₂ O	CO ₂	CH ₄	N ₂ O	CO ₂	CH ₄	N ₂ O	CO ₂	CH ₄	N ₂ O	
1990	30,583,000	11,162,795,000	20.300	549,891,379	19.564	0.00055	0.00020	5,379,037.47	151	55	1	23	300	5,379,037	3,478	16,497	5,399,012
2005	35,014,269	12,780,208,185	21.739	587,893,104	19.564	0.00055	0.00020	5,750,770	162	59	1	23	300	5,750,770	3,718	17,637	5,772,126
2006	35,330,273	12,895,549,645	21.833	590,644,879	19.564	0.00055	0.00020	5,777,688	162	59	1	23	300	5,777,688	3,736	17,719	5,799,143
2020	39,754,333	14,510,331,399	22.779	637,004,759	19.564	0.00055	0.00020	6,231,181	175	64	1	23	300	6,231,181	4,029	19,110	6,254,320
2030	42,914,375	15,663,746,875	22.893	684,215,563	19.564	0.00055	0.00020	6,692,997	188	68	1	23	300	6,692,997	4,328	20,526	6,717,851

1. Section 3.15, Transportation/Traffic.

2. California Department of Transportation, California Motor Vehicle Stock, Travel and Fuel Forecast, December 2005.

3. Bay Area Air Quality Management District, Source Inventory of Bay Area Greenhouse Gas Emissions, November 2006.

4. Robert Henson, The Rough Guide to Climate Change, September 2006.

5. San Diego Association of Governments, 2030 Regional Growth Forecast Update, City of San Diego, September 2006.