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August 22, 2016 9420-3

U.S. Fish and Wildlife Service Attention: Recovery Permit Coordinator 2177 Salk Avenue #250 Carlsbad, California 92008

Subject: 2016 Focused Quino Checkerspot Butterfly Survey Report for the Pure Water San Diego Program, County of San Diego, California

Dear Recovery Permit Coordinator:

This letter report documents the spring 2016 results of a focused survey conducted by Dudek for the federally listed endangered Quino checkerspot butterfly (*Euphydryas editha quino*; Quino). This survey was conducted in support of the Pure Water San Diego Program project (Pure Water Program), located in the County of San Diego, California. The Pure Water Program is the City of San Diego's Public Utilities Department (PUD) proposed program to provide a safe, secure, and sustainable local drinking water supply for San Diego. The Pure Water Program consists of the design and construction of new advanced water treatment facilities, wastewater treatment facilities, pump stations, transmission lines, and pipelines. The Pure Water Program project site contains approximately 447 acres of potentially Quino-suitable habitat that were surveyed in 2016. This effort surveyed the current alignment, plus a 100-foot buffer where suitable habitat existed. However, buffer areas were not surveyed if intervening buildings or other large development occurred between the potential project area and the buffered habitat.

This report is intended to satisfy reporting requirements for the following Quino-permitted biologists:

- Brock Ortega, TE813545-6
- Greg Chatman, TE-075112-2
- Dale Powell, TE-006559-6
- Jun Powell, TE-006559-6

PROJECT LOCATION AND EXISTING CONDITIONS

Pure Water Program pipelines extend from the Cities of San Diego, Santee, and the community of Lakeside in unincorporated San Diego County, in addition to federal lands within MCAS Miramar (Figure 1, Regional Map), and meander in and out of U.S. Fish and Wildlife Service (USFWS)

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required survey areas (USFWS 2014). The site occupies portions of Township 14 South, Range 1 East, unsectioned lands projected Sections 30, and 31; Township 14 South, Range 1 West, projected Sections 25, and 36; Township 14 South, Range 2 West, projected Sections 32, and 33; Township 15 South, Range 1 East, projected Sections 6, 7, and 18; Township 15 South, Range 1 West, projected Sections 1, 12, 13, 14, 21, 22, 23, 24, 28, 29, and 30; Township 15 South, Range 2 West, projected Sections 5, 6, 25, 29, 30, 31, 32, 33, 35, and 36; Township 15 South, Range 3 West, projected Sections 1, 8, 9, 10, 11, 12, 15, 16, 17, 20, 21, 22, 23, 25, 26, 28, 29, 32, 33, 35, and 36; and Township 16 South, Range 2 West, projected Sections 4, 5, 9, 19, 17, 20, 21, and 28 on the San Vicente Reservoir, El Cajon, La Mesa, Poway, La Jolla, and Del Mar U.S. Geological Survey 7.5 minute quadrangle maps (Figure 2, Vicinity Map).

Elevations range from about 2 feet above mean sea level in the southwestern portion of Pure Water Program area to approximately 1,230 feet above mean sea level.

Soils on site consist of acid igneous rock land; Altamont clay; Carlsbad gravelly loamy sand; Chestern fine sandy loam, Cieneba rocky and very rocky coarse sandy loam, Fallbrook sandy loam, loamy alluvial land-Hueruero complex; metamorphic rock land; Olivenhain cobbly loam; Redding cobbly and gravelly loam; riverwash; terrace escarpments; Tujunga sand; and Visalia sandy loam (SanGIS 2016).

SITE ASSESSMENT

The site assessment was completed in accordance with the USFWS December 2014 survey protocol. Protocol Quino surveys are recommended in suitable habitat areas, including sage scrub, open chaparral, grasslands, and communities that are observed in open or sparsely vegetated areas or hilltops and ridgelines. Excluded areas not recommended for Quino surveys include:

- Orchards, developed areas, or small in-fill parcels (plots smaller than an acre completely surrounded by urban development) largely dominated by non-native vegetation;
- Active/in-use agricultural fields without natural or remnant inclusions of native vegetation or that are completely without any fallowed or unplowed areas;
- Closed-canopy woody vegetation including forests, riparian areas, shrub-lands, and chaparral.

"Closed-canopy woody vegetation" describes shrubs or trees growing closely together in which the upper portions of the vegetation converge (are touching) to the point that the open space between two or more plants is not significantly different than the open space within a single plant. Closed canopy shrub-land and chaparral are defined as vegetation so thick that it is inaccessible to humans except by destruction of woody vegetation (branches).

VEGETATION COMMUNITIES

Vegetation communities were mapped in spring 2016 by Dudek. Based on species composition and general physiognomy, 12 vegetation communities were identified on the Pure Water Program site and off-site mapping areas (Figure 3, Vegetation Communities). Their acreages are presented in Table 1. A total of approximately 450 acres were evaluated for focused Quino surveys; however, 429 acres were determined to be Quino-suitable habitat and were mapped on the Project site according to Holland (1986) and Oberbauer et al. (2008).

Table 1
Vegetation Communities and Land Cover Types on the Pure Water Program Site

Vegetation Community/Land Cover	Acres
Suitable Quino Habitat	
Southern Mixed Chaparral	88.7
Coast Live Oak Woodland	1.2
Coastal Sage Scrub1	164.1
Disturbed Coastal Sage Scrub1	31.0
Freshwater Marsh	1.7
Disturbed Habitat	63.6
Southern Arroyo Willow Riparian Forest	0.01
Southern Willow Scrub	0.2
Southern Sycamore–Alder Riparian Woodland	4.7
Non-Native Grassland	72.9
Suitable Quino Habitat Total ²	429.3
Excluded Quino Survey Areas	
Agriculture	6.0
Open Water	1.1
Developed Land	13.7
Excluded Quino Survey Area Total2	20.8
Grand Total ²	450.1

Notes:

- Coastal Sage Scrub subtotal is 195.1 acres.
- Numbers do not sum precisely due to rounding.

Agriculture

Agriculture refers to areas where irrigated row and field crops are being grown (i.e., intensive agriculture). This land has little biological resource value because it provides very limited habitat value for most native species. However, this area may supply grain and water for native and migratory birds. Approximately 6 acres supports agriculture, including fallow fields and non-



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native vegetation. Agriculture was determined unsuitable Quino habitat during the site assessment due to being active, and therefore was not included in the focused Quino surveys.

Annual (Non-native) Grassland

Annual (non-native) grassland is characterized by a sparse to dense cover of annual grasses typically up to 2 feet tall, with many annual wildflowers also present in years with favorable rainfall. This vegetation community typically occurs on fine-textured soils that are moist or wet in the winter and very dry during summer and fall. Plant species present typically include wild oat (*Avena* spp.), bromes (*Bromus* spp.), tarweeds (*Centromadia* spp., *Deinandra* spp.), and filarees (*Erodium* spp.) (Holland 1986). In San Diego County, annual grassland often occurs where the native vegetation has been disturbed by grazing, fire, agriculture, or other activities.

A total of 72.9 acres of annual grassland communities was mapped on the project area. Where the disturbance has been frequent and/or intensive, the native vegetation community often does not recover. These areas are characterized by weedy, introduced annuals, primarily grasses, including especially slender wild oat (*Avena barbata*), bromes, mustards (*Brassica* spp. and *Sisymbrium* spp.), filarees, and Russian-thistle (*Salsola tragus*).

Small, open patches of annual (non-native) grassland communities on site were determined suitable for focused Quino surveys.

Coast Live Oak Woodland

Coast live oak woodland is a broad-leaved, sclerophyllous (stiff, firm-leaved) woodland dominated by coast live oak (*Quercus agrifolia*) trees that reach from 35 to 80 feet tall. The shrub layer is poorly developed but may contain native shrubs such as toyon (*Heteromeles arbutifolia*), laurel sumac (*Malosma laurina*), and blue elderberry (*Sambucus nigra* ssp. *caerulea*). A continuous herb layer dominated by non-native grasses and herbs is typically present. In Southern California, coast live oak woodland typically occurs on north-facing slopes and in shaded ravines (Holland 1986).

Coast live oak woodland on site occurs as several scattered patches totaling 1.2 acres in the northern part of the Pure Water Program site. Coast live oaks form small homogeneous stands, with a disturbed understory that includes ripgut grass (*Bromus diandrus*), soft chess (*B. hordeaceus*), red brome (*B. madritensis* ssp. *rubens*), and slender wild oat. It is contiguous, or nearly so, with some areas of southern coast live oak riparian forest, but occurs slightly higher topographically and not in association with a drainage.



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Coastal and Valley Freshwater Marsh

Coastal and valley freshwater marsh (freshwater marsh) typically is dominated by tall, perennial, emergent monocots, such as cattails and bulrushes. Freshwater marsh receives a more constant input of fresh water than cismontane alkali marsh, such as quiet, permanently flooded sites that develop deep, peaty soils (Holland 1986). These wetlands often develop where the water table is at or just above the ground surface, such as the margins of lakes, ponds, slow-moving streams, ditches, and seepages. Areas with greater than 50% non-native species are mapped as disturbed freshwater marsh.

On the Pure Water Program site, freshwater marsh occurs as several small patches in the southwest portion of the site near Interstate 5 (I-5). These areas are generally dominated by non-native or introduced hydrophytic species, including umbrella sedge (*Carex alternifolius*), rabbit's-foot grass (*Polypogon monspeliensis*), and Mexican fan-palm (*Washingtonia robusta*). One patch of freshwater marsh in a relatively natural area adjacent to the Santee Lakes access road is dominated by Mexican rush (*Juncus mexicanus*) and spiny cocklebur (*Xanthium strumarium*). In the central part of the site near sycamore alluvial woodland, freshwater marsh contains Mexican rush and yerba mansa (*Anemopsis californica*). Freshwater marsh was evaluated during the site assessment and included in the focused Quino surveys.

Coastal Sage Scrub Communities

The majority of the project area, approximately 195.1 acres, contains coastal sage scrub vegetation types. Large portions of the site that probably historically supported coastal sage scrub have been disturbed severely or repeatedly by fire or other activities, such as ranching and off-road vehicles. The history of human and natural disturbances, combined with varied environmental conditions such as slope and aspect, has resulted in sub-communities that are different variants of the presumed original Diegan coastal sage scrub vegetation.

Diegan coastal sage scrub (coastal sage scrub) is a native plant community composed of a variety of soft, low, aromatic shrubs, characteristically dominated by drought-deciduous species, such as California sagebrush (*Artemisia californica*), California buckwheat (*Eriogonum fasciculatum*), and sages (*Salvia* spp.), with scattered evergreen shrubs, including lemonadeberry (*Rhus integrifolia*), laurel sumac, and toyon. It typically develops on south-facing slopes and other xeric locations (Holland 1986).

Coastal sage scrub vegetation on site is dominated by California sagebrush and California buckwheat, with laurel sumac, spiny redberry (*Rhamnus crocea*), white sage (*Salvia apiana*),



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black sage (Salvia mellifera), San Diego County viguiera (Viguiera laciniata, a special-status plant), toyon, and bush monkeyflower (Mimulus aurantiacus) as lesser components. In the southern portion of the site, some patches are dominated by white sage; in the north, redberry is the dominant shrub in some areas. This community supports a diverse understory of native herbs and forbs, including virgate tarplant (Holocarpha virgata), deerweed (Lotus scoparius), blue dicks (Dichelostemma capitatum), Cleveland's shooting-star (Dodecatheon clevelandii), blue-eyed grass (Sisyrinchium bellum), canchalagua (Centaurium venustum), and several species of grasses, both native and introduced. The primary introduced grass is slender wild oat.

Disturbed coastal sage scrub communities contain relatively more non-native grasses and fewer native shrubs. Areas with native coastal sage scrub shrub cover greater than 20% are mapped as coastal sage scrub; areas with native shrub cover of 11% to 20% are mapped as disturbed coastal sage scrub; areas with native shrub cover of 5% to 10% are mapped as disturbed coastal sage scrub/annual grassland. In addition, transitional areas containing a mix of coastal sage scrub types and baccharis scrub, valley needlegrass grasslands, or southern mixed chaparral have been identified and mapped.

Coastal sage scrub is recognized as a sensitive plant community by local, state, and federal wildlife agencies. It supports a rich diversity of sensitive plants and animals, and it is estimated that it has been reduced by 75% to 80% of its historical coverage throughout Southern California. It is the focus of the current State of California Natural Community Conservation Planning program in Southern California.

Developed

Developed land refers to areas supporting man-made structures including buildings, yards, roadways, and other highly modified lands supporting structures associated with dwellings or other permanent structures. A total of 13.7 acres is mapped as developed land. However, since determined to be unsuitable Quino habitat during the site assessment, developed land was not included in focused Quino surveys.

Disturbed Habitat

Disturbed habitat refers to land that has little habitat value for native species due to lawful activities (San Diego County 2004). Disturbed habitat typically includes areas that lack vegetation entirely, generally as the result of severe or repeated mechanical perturbation, and areas dominated by invasive, broad-leaved (ruderal) species that typically develop on compacted soils following intense disturbance.



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Approximately 63.6 acres on site is disturbed habitat. These areas would typically still satisfy USFWS-requirements as suitable habitat.

Open Water

Open water refers to areas that support standing water most or all of the year and do not contain any emergent vegetation. Open water totals 1.1 acres within the mapped project site. However, since determined to be unsuitable Quino habitat during the site assessment, open water was not included in focused Quino surveys.

Southern Arroyo Willow Riparian Woodland

Southern arroyo willow riparian woodland is described by Holland (1986) as a dense, low, closed-canopy broad-leaved, winter-deciduous woodland dominated by arroyo willow (*Salix lasiolepis*). Arroyo willow generally grows as a large, tree-like shrub. Characteristic species include white alder (*Alnus rhombifolia*), California wax myrtle (*Myrica californica*), and Pacific willow (*Salix lasiandra*). There is 0.01 acre of southern arroyo willow riparian woodland on site. Focused Quino surveys were conducted within open areas within southern arroyo willow riparian woodland.

Southern Sycamore-Alder Riparian Woodland

Southern sycamore—alder riparian woodland is described by Holland (1986) as a tall, open, broad-leaved, winter-deciduous streamside woodland dominated by well-spaced Western sycamore (*Platanus racemosa*) and often also white alder. Seldom forming closed canopy forests, these stands may appear as trees scattered in a shrubby thicket of sclerophyllous and deciduous species and are subject to seasonally high-intensity flooding. Characteristic species of this habitat type include California mugwort (*Artemisia douglasiana*), coast live oak, California blackberry (*Rubus ursinus*), California laurel (*Umbellularia californica*), and giant stinging nettle (*Urtica holosericea*). There are 4.7 acres of southern sycamore—alder riparian woodland on site.

Southern Mixed Chaparral

Southern mixed chaparral is a drought- and fire-adapted community of woody shrubs from 5 to 10 feet tall that often forms dense, impenetrable stands. It develops primarily on mesic north-facing slopes and in canyons and is characterized by crown- or stump-sprouting species that regenerate following fire. This association typically contains chamise (*Adenostoma fasciculatum*), mission manzanita (*Xylococcus bicolor*), wild lilac (*Ceanothus* spp.), California scrub oak (*Quercus berberidifolia*), and laurel sumac.



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Southern mixed chaparral is the second most common vegetation type to coastal sage scrub in the project area, with approximately 88.7 acres in the project area. Due to its high-density cover, there is little or no understory in this community, except for in openings. The dominant species in the southern mixed chaparral on site are chamise, black sage, laurel sumac, coastal spicebush (*Cneoridium dumosum*), and mission manzanita. Understory species include rigid bird's beak (*Cordylanthus rigidus*), rock-rose (*Helianthemum scoparium*), and ashy spikemoss (*Selaginella cinerascens*). Focused Quino surveys were conducted within open areas within southern mixed chaparral.

Regionally, southern mixed chaparral is not considered a sensitive vegetation type; however, when it occurs in a mosaic distribution with other native communities, such as coastal sage scrub and oak woodland, it may be of high value for native wildlife, contributing to the overall habitat heterogeneity and patch size. Southern mixed chaparral that contains special-status plant species also may be considered sensitive.

Southern Willow Scrub

Southern willow scrub is a dense, broad-leafed, winter-deciduous riparian thicket dominated by several species of willow (*Salix* spp.) that occurs on loose, large-grained alluvium along stream channels. The closed canopy inhibits the development of a diverse understory. It may contain scattered Fremont's cottonwood (*Populus fremontii*) and western sycamore trees emerging above the willow canopy and requires repeated flooding to avoid succession to a community dominated by these trees (Holland 1986).

On site, southern willow scrub occupies 0.2 acre in patches dominated by arroyo willow (*Salix lasiolepis*) and black willow, with an understory of mulefat (*Baccharis salicifolia*). Focused Quino surveys were conducted within open areas within southern willow scrub.

QUINO CHECKERSPOT BUTTERFLY SURVEY

Background Information

The Quino was added to the federal Endangered Species List by USFWS on January 16, 1997 (62 FR 2313–2322). The species (*E. editha*) has a range extending from British Columbia and Alberta, Canada, south through Colorado and Utah, and west along the coast to northern Baja California. It is divided into 20 subspecies, each of which has its own range and biological and morphological characteristics. In California, there are 12 subspecies (Garth and Tilden 1986). Three other subspecies of *E. editha* are currently known to occur in Southern California. The Quino is the southwestern most subspecies of *E. editha* (Mattoni et al. 1997).



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The Quino is known to occur in association with a variety of plant communities, soil types, and elevations (up to 5,000 feet). The plant communities include clay soil meadows, open grasslands, coastal sage scrub, chamise chaparral, red shank chaparral, juniper woodlands, and semi-desert scrub (Ballmer et al. 2001). The Quino is also associated with clay soils that possess cryptogamic crusts and vernal pools (USFWS 2002).

The Quino is a medium-sized butterfly (approximately 0.8-inch to 1.1-inch wingspan) belonging to the family Nymphalidae. The adults are primarily orange-red with white and have black markings on the dorsal wing surface. They are active primarily in March and April. This active period may vary depending on weather conditions (Ballmer et al. 2001). The adult butterfly feeds on nectar, which it obtains from spring annuals such as popcorn flower (*Cryptantha* spp.), Layia (*Layia glandulosa*), goldenbush (*Ericameria* spp.), pincushion (*Chaenactis* spp.), fiddleneck (*Amsinckia intermedia*), chia (*Salvia columbariae*), and blue dicks, among others.

Adult males and virgin females sometimes "hilltop," or travel to elevated locations to find mates. While waiting for females to arrive, the males will often exhibit "territorial behavior" and will chase other butterflies that approach them. Frequently, the butterflies are observed in meadows or clearings where their host plants occur (Ballmer et al. 2001).

A female may lay 20 to 75 eggs at one time and may produce up to 1,200 eggs in her lifetime. The eggs hatch in approximately 10 days under favorable weather conditions, and the young larvae will immediately begin to feed upon a host plant. The feeding larvae use the dotseed plantain (*Plantago erecta*), woolly plantain (*Plantago patagonica*), white snapdragon (*Antirrhinum coulterianum*), and Chinese houses (*Collinsia concolor*) as their host plants (Pratt 2009). Rigid bird's beak and purple owl's clover (*Castilleja exserta* ssp. *exserta*) are considered secondary hosts (USFWS 2002).

After feeding, the early larva enters an obligatory aestival diapause (dormant stage), which may be broken after fall or winter rains (Murphy and White 1984; Osborne 1998). If adverse weather conditions occur, the emergent larva may reenter a diapause stage repeatedly, for up to 5 or 6 years, until favorable weather conditions permit sufficient growth of the host plant to allow the larva to complete its development.

The Quino was once common in Southern California. It ranged north into Ventura County, west to the Pacific Ocean, east to the deserts, and south into northern Baja California. Currently, it is known to occur only in a few, probably isolated, colonies in southwestern Riverside County, San Diego County, and northern Baja California.

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Reasons for the butterfly's reduction in population are not well understood. Habitat loss due to degradation and fragmentation caused by urban and rural development, agricultural conversion, off-road-vehicular use, the invasion of non-native plants and insects, fire management practices, over collecting, and adverse weather conditions have likely contributed to the species' decline (62 FR 2313–2322).

Methods

Focused Quino Surveys

The surveys were conducted in accordance with the description in the most recent Quino checkerspot butterfly survey guidelines (December 15, 2014; USFWS 2014). According to the USFWS protocol, the first weekly survey shall begin during the third week of February, and the survey season will end the second Saturday in May. Surveys shall be conducted weekly and spaced no closer than 4 days apart (USFWS 2014).

Focused Quino surveys were conducted over 122 person days within a 13-week period between February 21, 2016, and May 23, 2016, per the USFWS protocol.

In accordance with current USFWS protocol, surveys were conducted by Quino-permitted biologists Brock Ortega (TE813545-6), Greg Chatman (TE075112-2), Dale Powell (TE006559-6), and Jun Powell (TE006559-6).

As noted, this effort surveyed the current alignment, plus a 100-foot buffer where suitable habitat occurs. However, buffer areas were not surveyed if intervening buildings or other large development occurred between the potential project area and the buffered habitat. Initially, there was more survey area, and then as the project was refined, less survey area was required. The ultimate survey areas are depicted on Figures 4 to 4G, Survey Areas). Defined "survey polygons" were not established as it was the intent that biologists would traverse through the linear alignment as daily weather and access allowed. In general, D. Powell and J. Powell surveyed from the west to the east while G. Chatman surveyed from the east to the west. At no time did the surveyors survey at a rate greater than 5 to 10 acres per hour (i.e., in accordance with USFWS protocol) resulting in 122 person days of effort. It should be noted that the survey area, alignments, and access were being refined during the first four survey passes, resulting in additional person days per pass when compared to the remaining eight passes. Due to the refinement, survey areas were modified and portions of the surveyed areas were eliminated (see Table 2, Schedule of Focused Quino Surveys). The biologists were provided with 200-scale (1 inch = 200 feet) aerial photographs of each survey area. These photographs were used for mapping host plant populations and Quino, if observed. Binoculars were used to aid in detecting

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and identifying butterfly and other wildlife species. Global Positioning System (GPS) units also were available for recording locations of host plant populations.

The survey methods consisted of slowly walking roughly parallel transects spaced approximately 30 feet (10 meters) apart throughout all suitable habitat (429-acres) within the approximately 450-acre survey area. Survey routes were arranged to thoroughly cover the survey area at a rate of approximately 5 to 10 acres per person hour. Data was collected using an electronic dataform.

Surveys were conducted only during acceptable weather conditions (i.e., surveys were not conducted during fog, drizzle, or rain; winds greater than 15 miles per hour measured 4 to 6 feet above ground level for more than 30 seconds; temperature in the shade at ground level less than 60° Fahrenheit (°F) on a clear, sunny day with less than 50% cloud cover; or temperature in the shade at ground level less than 70°F on an overcast or cloudy day with 50% or more cloud cover. Survey times, personnel, and conditions during the Quino surveys are shown in Table 2, Schedule of Focused Quino Surveys, and Table 3, Schedule of Host Plant Mapping Surveys. Photocopies of the surveyor's field notes are included as Appendix A.

Table 2
Schedule of Focused Quino Surveys

			Survey	
Date	Hours	Personnel	Hours ¹	Conditions
		Survey Pass	12 – 80 Sun	vey Hours Total
2/28/2016	10:00 AM-4:45 PM	DP, GC, JP	20:15	68°F-70°F; 0% cc; 1-3 mph to 4-6 mph wind
2/28/2016	1:10 PM-3:20 PM	ВО	2	76°F-77°F; 20% cc-20% cc; 3-5 mph to 3 mph wind
2/29/2016	9:15 AM-3:15 PM	DP, GC, JP	18	63°F-64°F; 0% cc; 2-4 mph to 2-4 mph wind
3/1/2016	9:30 AM-3:00 PM	DP, GC, JP	16:30	68°F-80°F; 0% cc-20% cc; 2-4 mph to 4-6 mph wind
3/2/2016	9:30 AM-3:30 PM	GC	6	70°F-73°F; NR% cc; 1-2 mph to 3-5 mph wind
3/3/2016	9:00 AM-5:00 PM	GC	8	67°F-68°F; 0% cc; 2-4 mph wind
3/4/2016	9:30 AM-11:30 AM	GC	2	66°F-69°F; 0% cc; 2-4 mph wind
3/9/2016	9:15 AM-11:00 AM	DP, GC, JP	4:30	65°F-71°F; 0% cc; 1-2 mph wind
3/10/2016	2:30 PM-3:55 PM	DP	1:30	70°F; 80% cc-100% cc; 1-3 mph wind
3/10/2016	2:30 PM-3:55 PM	JP	1	70°F; 50% cc-100% cc; 1-4 mph wind
		Survey Pass	2 – 67 Surv	vey Hours Total
3/8/2016	9:10 AM-4:30 PM	DP, GC, JP	22	60°F-68°F; 0% cc; 1-2 mph to 6-9 mph wind
3/9/2016	11:00 AM-4:30 PM	DP, GC, JP	16:30	67°F-71°F; 0% cc; 4-6 mph wind
3/10/2016	9:15 AM-4:45 PM	DP, GC, JP	22:30	70°F-74°F; 0% cc; 2-6 mph wind
3/11/2016	8:30 AM-2:30 PM	GC	6	NR°F; 0% cc; 1–2 mph to 4–8 mph wind
		Survey Pass	3 – 51 Surv	rey Hours Total
3/5/2016	9:00 AM-10:00 AM	ВО	1	65°F-67°F; 20% cc-30% cc; 3-5 mph to 3-5 mph wind
3/13/2016	9:30 AM-4:45 PM	DP, GC, JP	18:45	67°F-68°F; 0% cc-5% cc; 0-8 mph wind

Table 2 Schedule of Focused Quino Surveys

Date	Hours	Personnel	Survey Hours ¹	Conditions
3/13/2016	10:45 AM-3:20 PM	BO	4:30	71°F–73°F; 20% cc–30% cc; 3–5 mph to 5 mph wind
3/14/2016	1:15 PM-2:30 PM	DP, JP	2	70°F–72°F; 50% cc; 6 mph wind
3/15/2016	9:15 AM-3:30 PM	DP, GC, JP	18:45	64°F–71°F; 0% cc–15% cc; 1–6 mph wind
3/16/2016	10:30 AM-4:45 PM	GC	6	NR°F; 0% cc; 1–2 mph to 2–3 mph wind
0.10.200				rvey Hours Total
3/20/2016	10:00 AM-5:00 PM	DP, JP	21	61°F-75°F; 0% cc-70% cc; 1-3 mph wind
3/21/2016	12:00 PM-5:00 PM	DP, JP	10	67°F-68°F; 0% cc-65% cc; 3-6 mph wind
3/21/2016	10:00 AM-2:30 PM	GC	4:30	NR°F; 0% cc; 1–2 mph to 5–7 mph wind
3/22/2016	10:00 AM-4:00 PM	DP, GC, JP	18	61°F-70°F; 10% cc-60% cc; 4-6 mph wind
3/23/2016	10:00 AM-12:00 PM	GC	2	NR°F; 0% cc; 1–2 mph to 2–4 mph wind
		Survey Pass 5	i ³ – 46:45 Su	irvey Hours Total
3/27/2016	9:15 AM-5:15 PM	DP, JP	16	65°F-75°F; 0% cc-60% cc; 1-5 mph wind
3/29/2016	11:00 AM-3:30 PM	DP, JP	9	67°F-72°F; 10% cc-20% cc; 3-4 mph to 4-8 mph wind
3/30/2016	9:30 AM-3:45 PM	GC	6:15	61°F-67°F; 0% cc-25% cc; 2-5 mph wind
3/31/2016	9:00 AM-3:30 PM	GC	6:30	61°F-73°F; 0% cc; 1-7 mph wind
4/1/2016	10:30 AM-1:30 PM	DP, JP	6	66°F-72°F; 0% cc; 1-7 mph to 5-8 mph wind
4/2/2016	10:00 AM-1:00 PM	GC	3	71°F–81°F; 0% cc; 1–5 mph wind
		Survey Pass 6	6 – 47:15 Su	rvey Hours Total
4/3/2016	10:00 AM-5:15 PM	DP, JP	15	68°F-79°F; 0% cc; 3-5 mph wind
4/4/2016	9:15 AM-4:30 PM	DP, JP	14:30	68°F-74°F; 0% cc; 0-4 mph wind
4/4/2016	10:00 AM-4:45 PM	GC	6:45	76°F-80°F; 0% cc; 3-6 mph wind
4/5/2016	10:00 AM-4:00 PM	GC	6	70°F-82°F; 0% cc; 0-4 mph wind
4/5/2016	9:30 AM-11:30 PM	DP	2	68°F-80°F; 10% cc-20% cc; 0-4 mph wind
4/6/2016	9:30 AM-12:30 PM	GC	3	75°F-85°F; 0% cc; 1-4 mph wind
		Survey Pass i	7 – 46:15 Su	rvey Hours Total
4/11/2016	11:15 AM-5:15 PM	DP, JP	12	68°F-72°F; 10% cc-60% cc; 3-5 mph wind
4/12/2016	9:45 AM-4:45 PM	DP, JP	14	67°F-68°F; 10% cc-20% cc; 0-8 mph wind
4/13/2016	10:00 AM-4:30 PM	JP	6	67°F-76°F; 0% cc-70% cc; 0-8 mph wind
4/13/2016	10:00 AM-4:00 PM	GC	6	67°F-77°F; 0% cc; 2-6 mph wind
4/14/2016	9:30 AM-3:45 PM	GC	6:15	69°F-72°F; 0% cc; 1-7 mph wind
4/15/2016	10:00 AM-12:00 PM	GC	2	72°F–79°F; 0% cc; 1–4 mph wind
			8 – 47 Surv	rey Hours Total
4/17/2016	10:00 AM-5:00 PM	DP, JP	14	86°F–90°F; 0% cc; 5–8 mph
4/18/2016	8:55 AM-4:00 PM	DP, JP	12	79°F–87°F; 0% cc; 1–9 mph
4/19/2016	9:00 AM-12:30 PM	DP, JP	7	82°F; 0% cc; 0 mph
4/20/2016	10:00 AM-4:00 PM	GC	6	77°F-88°F; 0% cc; 2-7 mph wind

Table 2
Schedule of Focused Quino Surveys

Date	Hours	Personnel	Survey Hours ¹	Conditions
4/21/2016	10:00 AM-4:00 PM	GC	6	74°F–79°F; 0% cc; 4–9 mph wind
4/22/2016	10:00 AM-12:00 PM	GC	2	69°F-73°F; 0% cc; 1-4 mph wind
		Survey Pass S	9 – 46:45 Su	rvey Hours Total
4/24/2016	10:30 AM-4:15 PM	DP, JP	11:15	70°F-76°F; 0% cc; 4-6 mph wind
4/25/2016	10:30 AM-4:30 PM	DP, JP	12	63°F-66°F; 50% cc-75% cc; 6-9 mph wind
4/26/2016	9:55 AM-2:30 PM	DP, JP	9	74°F; 0% cc-5% cc; 3-8 mph wind
4/26/2016	10:00 AM-3:30 PM	GC	5:30	66°F-68°F; 20% cc-40% cc; 4-6 mph wind
4/27/2016	10:00 AM-4:00 PM	GC	6	65°F-68°F; 25% cc; 6-8 mph wind
4/29/2016	10:00 AM-1:00 PM	GC	3	65°F-68°F; 10% cc; 6-8 mph wind
		Survey Pass	10 – 49 Sur	vey Hours Total
5/1/2016	11:15 AM-5:25 PM	DP, JP	12	69°F-73°F; 10% cc-90% cc; 1-6 mph
5/2/2016	9:20 AM-4:20 PM	DP, JP	14	67°F-72°F; 0% cc-30% cc; 1-8 mph
5/2/2016	10:00 AM-4:00 PM	GC	6	67°F-71°F; 0% cc; 6-9 mph wind
5/3/2016	9:45 AM-1:45 PM	DP, JP	8	78°F; 0% cc; 3–5 mph wind
5/3/2016	10:00 AM-4:00 PM	GC	6	69°F-76°F; 0% cc; 4-8 mph wind
5/4/2016	10:00 AM-1:00 PM	GC	3	68°F-75°F; 0% cc; 2-6 mph wind
		Survey Pass 1	1 – 48:30 Su	ırvey Hours Total
5/8/2016	11:30 AM-5:55 PM	DP, JP	13	70°F; 25% cc-30% cc; 5-9 mph wind
5/8/2016	11:00 AM-2:00 PM	GC	3	70°F; 25% cc-30% cc; 5-9 mph wind
5/9/2016	10:00 AM-4:00 PM	GC	6	65°F-69°F; 20% cc-40% cc; 4-9 mph wind
5/9/2016	11:40 AM-4:50 PM	DP, JP	10	67°F-70°F; 10% cc-75% cc; 2-7 mph wind
5/10/2016	11:30 AM-5:15 PM	DP, JP	11:30	72°F; 10% cc; 6 mph wind
5/10/2016	11:00 AM-4:00 PM	GC	5	69°F-76°F; 10% cc-20% cc; 2-6 mph wind
		Survey Pass	12 – 56.5 Su	rvey Hours Total
5/15/2016	12:05 PM -5:05 PM	DP, JP	14	69°F-72°F; 50% cc-55% cc; 5 mph wind
5/15/2016	11:00 AM-2:00 PM	GC	3	67°F-73°F; 10% cc-30% cc; 2-6 mph wind
5/16/2016	11:45 AM-3:00 PM	DP, JP	6:30	67°F-69°F; 60% cc-90% cc; 5-6 mph wind
5/16/2016	11:00 AM-4:00 PM	GC	5	64°F-67°F; 20% cc-30% cc; 3-8 mph wind
5/17/2016	1:45 PM-2:45 PM	DP, JP	2	69°F-70°F; 95% cc; 2-5 mph wind
5/18/2016	10:00 AM-4:00 PM	GC	6	66°F-70°F; 25% cc; 4-9 mph wind
5/21/2016	10:00 AM-1:00 PM	GC	6	69°F-71°F; 25% cc-50% cc; 4-7 mph wind
5/23/2016	11:30 AM-3:00 PM	GC	6	71°F-73°F; 20% cc-30% cc; 2-7 mph wind
5/23/2016	11:30 AM-3:30 PM	DP, JP	8	72°F–74°F; 5% cc–20% cc; 3–4 mph wind

Notes:

In general D. Powell and J Powell performed surveys from the west to the east, while G. Chatman surveyed from the east to the west. Survey coverage per visit was variable dependent on weather, access and other factors. Specific survey areas could not be established do to this and surveyors simply started where they ended the day before until the entire study area was surveyed for that week's pass.



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Host Plant Mapping

Quino host plant mapping surveys were conducted within a 4-week period between April 11, 2016, and May 11, 2016, in accordance with the schedule provided in Table 3. Botanical surveys were conducted by biologist Greg Chatman (TE075112-2). All surveys were conducted on foot. Approximately 15 person-days were spent conducting host plant mapping within the study area.

Biologists were able to observe reference populations of dotseed plantain and purple owl's clover to develop a search-image before conducting surveys of the site. Host plant mapping surveys focused on the identification and location of all seven recognized host plants for Quino: dotseed plantain, purple owl's clover, woolly plantain, Coulter's snapdragon, rigid bird's beak, Chinese houses, and purple Chinese houses (*Collinsia heterophylla*) (USFWS 2014). All host plants were included in the survey; however, woolly plantain and Chinese houses do not have a western San Diego County distribution.

Table 3
Schedule of Host Plant Mapping Surveys

Doto	Hours	Personnel	Survey Area	Conditions (temperature, cloud cover, wind speed)
Date 4/11/2016	10:00 AM–1:00 PM		Survey Area	
		GC	I	68°F–72°F; 10% cc–60% cc; 3–5 mph wind
4/12/2016	9:33 AM-5:30 PM	GC	2	67°F-68°F; 10% cc-20% cc; 0-8 mph wind
4/13/2016	10:00 AM-4:00 PM	GC	8	67°F-76°F; 0% cc-70% cc; 0-8 mph wind
4/14/2016	9:30 AM-3:45 PM	GC	5, 6	69°F-72°F; 0% cc; 1-7 mph wind
4/15/2016	1:00 PM-2:45 PM	GC	3	72°F-79°F; 0% cc; 1-4 mph wind
4/18/2016	9:00 AM-3:00 PM	GC	4	79°F–87°F; 0% cc; 1–9 mph wind
4/19/2016	9:00 AM-3:44 PM	GC	3	82°F-91°F; 0% cc-5% cc; 0-5 mph
4/22/2016	10:00 AM-12:00 PM	GC	7	69°F-73°F; 0% cc; 1-4 mph wind
4/22/2016	1:00 PM-2:54 PM	GC	4	69°F-73°F; 0% cc; 1-4 mph wind
4/24/2016	10:00 AM-4:00 PM	GC	3	68°F-75°F; 0% cc-60% cc; 4-12 mph wind
4/25/2016	10:30 AM-2:20 PM	GC	3	68°F; 50% cc-75% cc; 6-9 mph wind
4/28/2016	10:02 AM-5:45 PM	GC	4	65°F-68°F; 25% cc; 6-8 mph wind
5/3/2016	12:19 PM-5:00 PM	GC	4	72°F–78°F; 0% cc; 3–5 mph wind
5/4/2016	10:30 AM-12:00 PM	GC	3	68°F-75°F; 0% cc; 2-6 mph wind
5/5/2016	11:00 AM-3:00 PM	GC	4	68°F-75°F; 0% cc; 2-6 mph wind
5/9/2016	11:15 AM-1:00 PM	GC	3	65°F-69°F; 20% cc-40% cc; 4-9 mph wind

Notes: GC = Greg Chatman (TE075112-2); cc = cloud cover; mph = miles per hour.

Focused Quino survey areas were refined to reflect changes in survey buffers and exclusion areas. Areas excluded included the western transmission corridor and widened an existing pipeline to 100 feet centered on the midline.

Focused Quino survey areas were further reduced to account for reduced access to some military flight-line areas due to safety. BO = Brock Ortega (TE813545-6); DP = Dale Powell (TE006559-6); GC = Greg Chatman (TE075112-2); JP = Jun Powell (TE006559-6); cc = cloud cover; mph = miles per hour; NR = not recorded.

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Dudek biologists recorded locations of Quino host plants using a mobile application. Data collected included the surveyor(s), date, species of host plant, and density of the host plant at the point at which the host plant was found. All host plant occurrences were mapped as points. Density was assessed per square meter and was collected using the following classes:

• Very Low: 1–19 plants per square meter

• Low: 20–100 plants per square meter

• Medium: 100–1,000 plants per square meter

• High: 1,000–10,000+ plants per square meter

Points were collected within patches of host plant at least as close as every 3 meters (10 feet). In addition, all blooming nectar plants were recorded for the entire survey area.

At the conclusion of surveys, Dudek geographic information systems (GIS) analysts created a GIS coverage for host plants. After review by a biologist, a geodatabase was created to ensure these data are topologically correct and meet final quality control and assurance procedures.

Results

Focused Quino Surveys

No Quino were observed during the 2016 focused survey. Forty-two butterfly species were observed during the surveys. The weeks in which these butterflies were observed are shown in Table 4a, Butterflies Observed On Site during Survey Passes 1–7, and Table 4b, Butterflies Observed On Site during Survey Passes 8–12.

Table 4a
Butterflies Observed On Site during Survey Passes 1–7

			Week					
Scientific Name	Common Name	1	2	3	4	5	6	7
		Hespe	riidae – Skip	pers				
Erynnis funeralis	Funereal duskywing	Χ	Χ	Х	Х	Χ	Χ	Х
Heliopetes ericetorum	Northern white-skipper	_	-	Х	Х	Х	Х	Х
Hylephila phyleus	Fiery skipper	Χ	Χ	Χ	Х	Х	Χ	Х
Lerodea eufala	Eufala skipper	ı	ı	_	_	1	Χ	_
Pyrgus albescens	White checkered- skipper	Х	X	Х	Х	X	Х	Х



Table 4a
Butterflies Observed On Site during Survey Passes 1–7

		Week						
Scientific Name	Common Name	1	2	3	4	5	6	7
	Nyn	nphalidae –	· Brush-Foote	ed Butterflie	es Es			
Adelpha bredowii	California sister	<u> </u>	Х	Х	Х	Х	_	Х
Chlosyne californica	California patch	_	_	Х	_	_	_	_
Limenitis lorquini	Lorquin's admiral	_	_	_	_	Х	Х	Х
Coenonympha tullia California	Common California ringlet	Х	Х	Х	Х	Х	Х	Х
Danaus gilippus	Queen	Х	Х	_	_	_	_	_
Danaus plexippus	Monarch	Х	Х	Х	_	_	Х	Х
Junonia coenia	Common buckeye	Χ	Χ	Χ	Χ	Χ	Χ	Х
Nymphalis antiopa	Mourning cloak	_	_	_	_	Х	Χ	Χ
Vanessa annabella	West coast lady	Χ	Х	Χ	Χ	Χ	Х	Χ
Vanessa atalanta	Red admiral	Х	Х	Х	Х	Х	_	Х
Vanessa cardui	Painted lady	Χ	Χ	Χ	_	_	_	Χ
Vanessa virginiensis	American lady	_	_	_	Χ	Χ	Χ	Х
-	Ly	/caenidae -	- Blues and I	- lairstreaks				
Brephidium exile	Western pygmy blue	Χ	Χ	Χ	Χ	Χ	Χ	Χ
Callophrys augustinus	Brown elfin	_	Х	_	_	Х	Х	_
Euphilotes battoides bernardino	Bernardino square- spotted blue	_	_	_	_	_	_	_
Hemiargus ceraunus	Ceraunus blue	_	_	_	_	_	_	_
Plebejus Iupini	Lupine blue	_	_	_	_	_	_	_
Glaucopsyche lygdamus australis	Southern blue	Х	X	Х	Х	Х	X	
Hemiargus ceraunus gyas	Edward's blue		X				_	
Leptotes marina	Marine blue	_	_	_	_	Х	X	Х
Plebejus acmon	Acmon blue	Х	Х	Х		_	_	Х
Strymon melinus	Gray hairstreak	Х	Х	Χ	Х	Х	Х	Х
		Papilioni	idae – Swalld	owtails				
Papilio eurymedon	Pale swallowtail	Χ	Х	_	Χ	Χ	Х	Х
Papilio rutulus	Western tiger swallowtail	Х	Х	Х	Х	Х	Х	Х
Papilio zelicaon	Anise swallowtail	Х	Х	Х	Х	Х	Х	Х
		Pieridae –	- Whites and	Sulfurs				
Anthocharis cethura	Desert orangetip							



Table 4a
Butterflies Observed On Site during Survey Passes 1–7

					Week			
Scientific Name	Common Name	1	2	3	4	5	6	7
Anthocharis sara sara	Pacific sara orangetip	Х	Х	Х	Х	Х	Х	Х
Colias eurytheme	Orange sulphur	Х	_	Х	Х	_	Х	Х
Colias harfordii	Harford's sulfur	_	_	_	_	_	_	_
Eurema nicippe	Sleepy orange	_	_	_	_	_	_	Х
Nathalis iole	Dainty sulphur	_	_	Х	_	_	Χ	Х
Phoebis sennae	Cloudless sulphur	Х	Х	Х	Х	_	Х	Х
Pieris rapae rapae	Cabbage white	Х	_	_	_	Χ	Χ	Х
Pontia protodice	Checkered white	_	Х	Х	_	Χ	Χ	Х
	Riodinidae – Metalmarks							
Apodemia virgulti	Behr's metalmark	Х	Χ	Χ	Χ	Χ	Χ	Х
Apodemia mormo	Mormon Metalmark	Х	Х	Χ	Χ	Χ	Χ	Х

Table 4b
Butterflies Observed On Site during Survey Passes 8–12

				Week		
Scientific Name	Common Name	8	9	10	11	12
	Hesperiidae -	- Skippers				
Erynnis funeralis	Funereal duskywing	Χ	_	_	Χ	Χ
Heliopetes ericetorum	Northern white-skipper	Χ	Х	Х	_	_
Hylephila phyleus	Fiery skipper	_	_	Х	Χ	Χ
Lerodea eufala	Eufala skipper	_	_	_	_	_
Pyrgus albescens	White checkered-skipper	Х	Х	Х	Х	Х
	Nymphalidae – Brush	-Footed Butterf	flies			
Adelpha bredowii	California sister	_	_	Х	Χ	Х
Chlosyne californica	California patch	_	_	Х	_	_
Limenitis Iorquini	Lorquin's Admiral	_	_	_	_	_
Coenonympha tullia california	Common California ringlet	_	_	_	_	_
Danaus gilippus	Queen	_	_	_	_	_
Danaus plexippus	Monarch	Х	_	Х	Х	Х
Junonia coenia	Common buckeye	Х	Х	Х	Х	Х
Nymphalis antiopa	Mourning cloak	Х	_	_	Х	_
Vanessa annabella	West coast lady	_	Х	_	Х	Х
Vanessa atalanta	Red admiral	_	_	_	Χ	Х
Vanessa cardui	Painted lady	_	_	_	Χ	_

Table 4b
Butterflies Observed On Site during Survey Passes 8–12

				Week		
Scientific Name	Common Name	8	9	10	11	12
Vanessa virginiensis	American lady	Χ	_	Х	Х	Х
	Lycaenidae – Blues	and Hairstreal	ks			
Brephidium exile	Western pygmy blue	_	Х	_	Χ	Χ
Callophrys augustinus	Brown elfin	_	Х	_	_	Х
Euphilotes battoides bernardino	Bernardino square-spotted blue	_	_	Х	_	Х
Hemiargus ceraunus	Ceraunus blue	_	_	_	_	Х
Plebejus Iupini	Lupine blue	Χ	_	_	_	_
Glaucopsyche lygdamus australis	Southern blue	_	_	_	_	_
Hemiargus ceraunus gyas	Edward's blue	_	_	_	_	_
Leptotes marina	Marine blue	Х	Х	Х	Х	Х
Plebejus acmon	Acmon blue	_	_	Х	Х	Х
Strymon melinus	Gray hairstreak	Χ	Х	Х	Х	Х
Papilionidae – Swallowtails						
Papilio eurymedon	Pale swallowtail	_	_	_	Х	Х
Papilio rutulus	Western tiger swallowtail	_	_	_	Х	_
Papilio zelicaon	Anise swallowtail	Χ	_	Χ	Χ	Χ
	Pieridae – White	s and Sulfurs				
Anthocharis cethura	Desert orangetip	_	Х	_	_	_
Anthocharis sara sara	Pacific sara orangetip	Χ	_	Х	Х	Х
Colias eurytheme	Orange sulphur	_	Х	_	Х	Х
Colias harfordii	Harford's sulfur	_	_	Χ	Χ	_
Eurema nicippe	Sleepy orange	_	_	_	_	_
Nathalis iole	Dainty sulphur	_	_	_	Х	_
Phoebis sennae	Cloudless sulphur	Χ	_	_	Х	Х
Pieris rapae rapae	Cabbage white	_	_	_	Х	Х
Pontia protodice	Checkered white	Χ	Х	Х	Х	Χ
	Riodinidae – N	Metalmarks				
Apodemia virgulti	Behr's metalmark	_	_		Χ	Х
Apodemia mormo	Mormon Metalmark	Χ	Х	Χ	Χ	Χ

Host Plant Mapping

Three Quino larval host plants—dotseed plantain, purple owl's clover, and purple Chinese houses—were observed within the study area during focused surveys. Dotseed plantain and

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purple owl's clover were recorded in the northwestern portion of the site (Figures 5 to 5D, Quino Host Plant Locations). Dotseed plantain is the dominant host plant observed and is commonly found in open patches and ridgetops. Exserted Indian paintbrush is densely populated on the northwestern portion of the site. Table 5, Quino Adult Nectar Plants, includes all adult Quino nectar plants observed in each focused survey area. No Quino larvae were observed during focused Quino and host plant mapping surveys.

Table 5
Quino Adult Nectar Plants

Survey	
Area	Nectar Plants
1	Cryptantha spp., Dichelostemma capitatum, Encelia spp., Lasthenia spp., Eriodictyon spp.
2	Cryptantha spp., Dichelostemma capitatum, Encelia spp., Lasthenia spp., Eriodictyon spp., Eriophyllum confertiflorum
3	Cryptantha spp., Dichelostemma capitatum, Encelia spp., Lasthenia spp., Eriodictyon spp., Rhus spp., Acmispon glaber
4	Cryptantha spp., Dichelostemma capitatum, Encelia spp., Lasthenia spp., Eriodictyon spp., Eriogonum spp., Salvia spp.
5	Cryptantha spp., Dichelostemma capitatum, Encelia spp., Lasthenia spp., Eriodictyon spp., Rhus spp., Eriogonum spp.
6	Cryptantha spp., Dichelostemma capitatum, Encelia spp., Lasthenia spp., Eriodictyon spp.
7	Cryptantha spp., Dichelostemma capitatum, Encelia spp., Lasthenia spp., Eriodictyon spp., Rhus spp., Eriogonum spp., Salvia spp.
8	Cryptantha spp., Dichelostemma capitatum, Encelia spp., Lasthenia spp., Eriodictyon spp., Eriogonum spp., Salvia spp.

Forty-one wildlife species were recorded during this survey effort and are included in Appendix B, Wildlife Observed during the 2016 Pure Water Program Quino Survey.

Dudek certifies that the information in this survey report and attached exhibits fully and accurately represents the work conducted by the Quino-permitted biologists who conducted this focused survey. Please feel free to contact Brock Ortega, bortega@dudek.com, if you have any questions regarding the contents of this report.

Sincerely

Brock Ortega

Permit #TE813545-6

Dale A Powell

Dale Powell

Permit #TE006559-6

Greg Chatman

Permit #TE075112-2

Jun Powell

Permit #TE006559-6

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Att: Figure 1, Regional Map

Figure 2, Vicinity Map

Figure 3, Vegetation Communities

Figures 4-4G, Survey Areas

Figures 5-5D, Ouino Host Plant Locations

Appendix A, 2016 Pure Water Program Quino Survey Field Notes

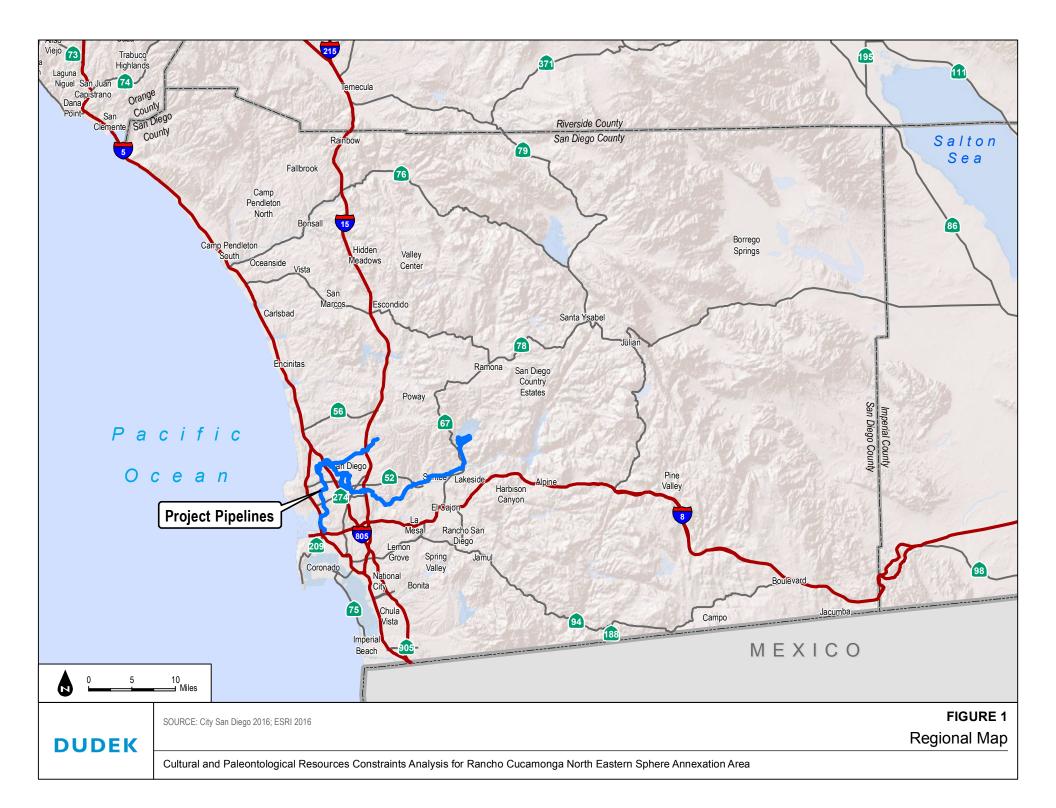
Appendix B, Wildlife Species Observed during the 2016 Pure Water Program Quino Survey

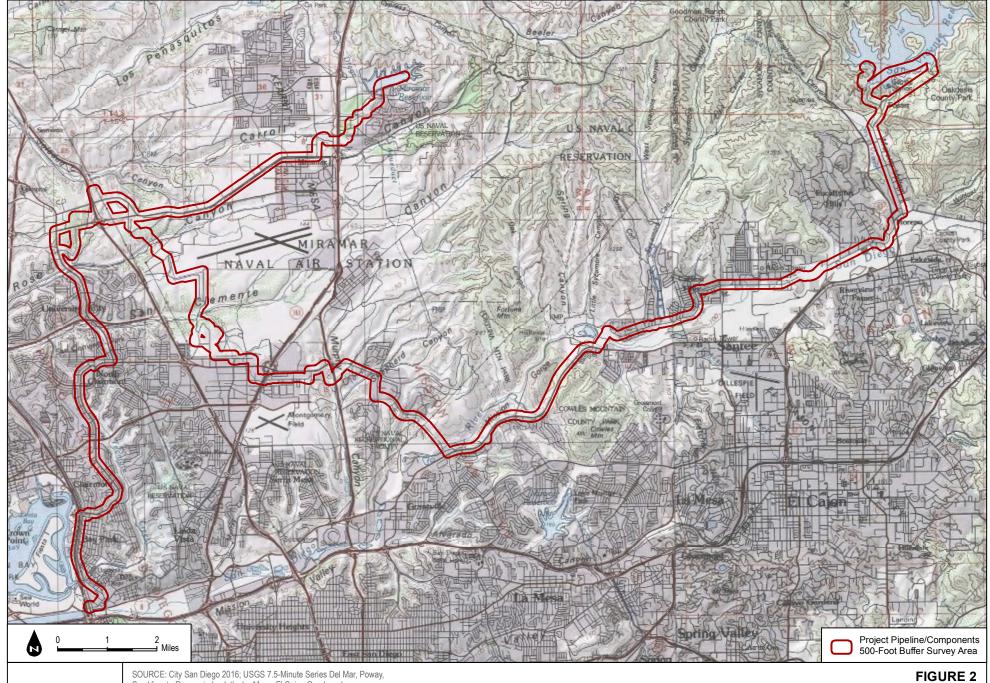
cc: Paul Lemons, Dudek

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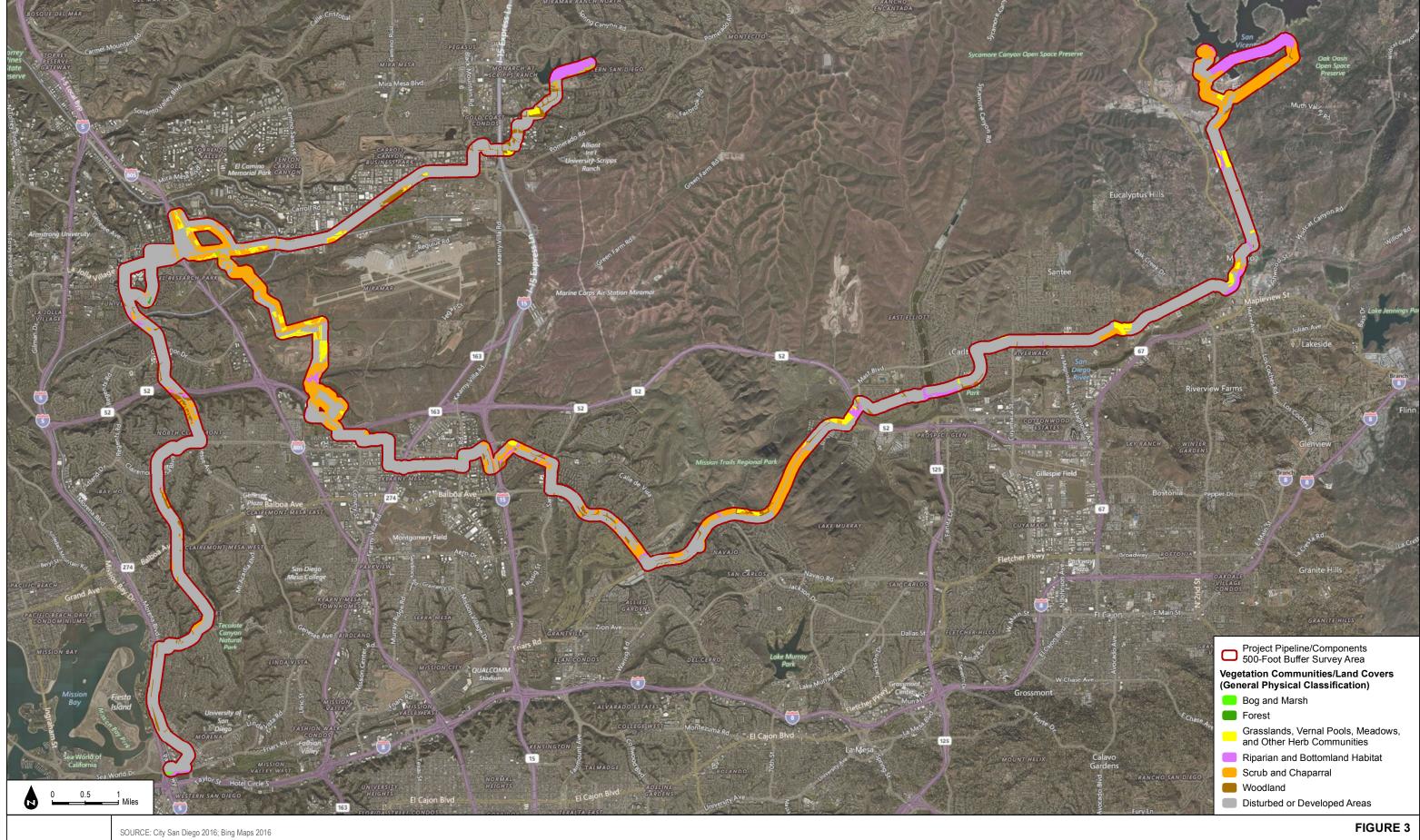




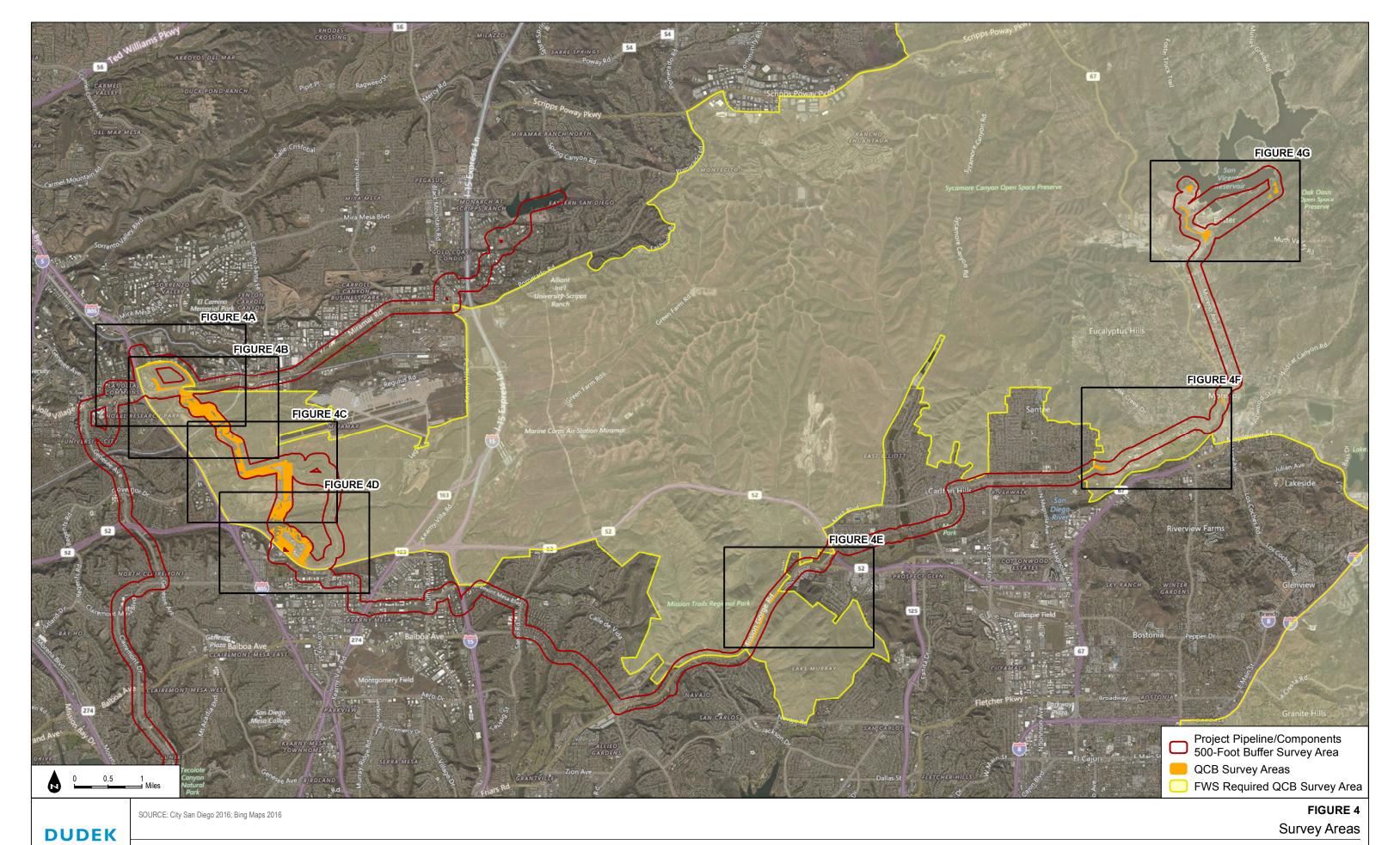
SOURCE: City San Diego 2016; USGS 7.5-Minute Series Del Mar, Poway, San Vicente Reservoir, La Jolla, La Mesa, El Cajon Quadrangles.

Vicinity Map

Pure Water San Diego Program North City Projects



Vegetation Communities



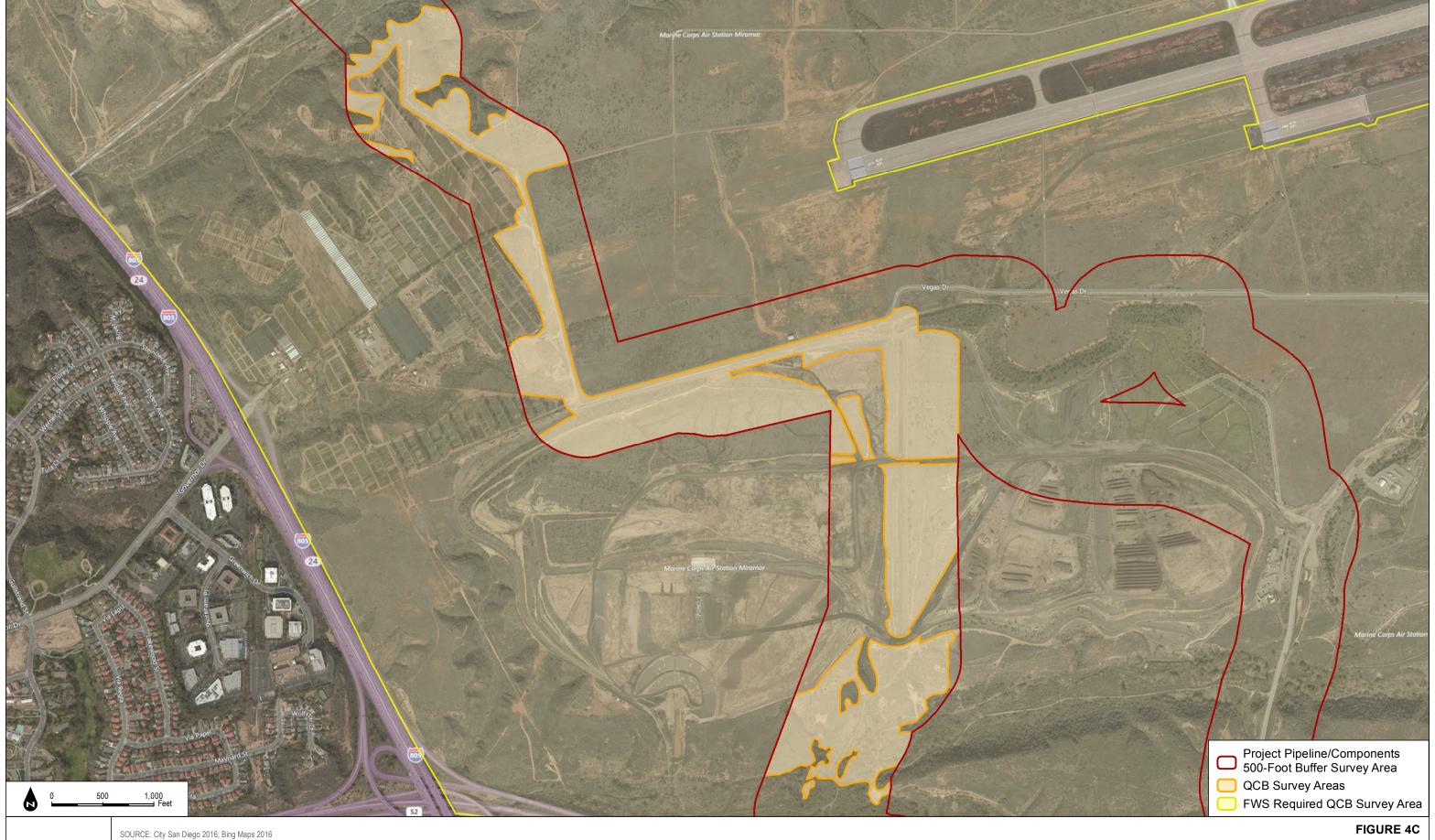
Pure Water San Diego Program North City Projects

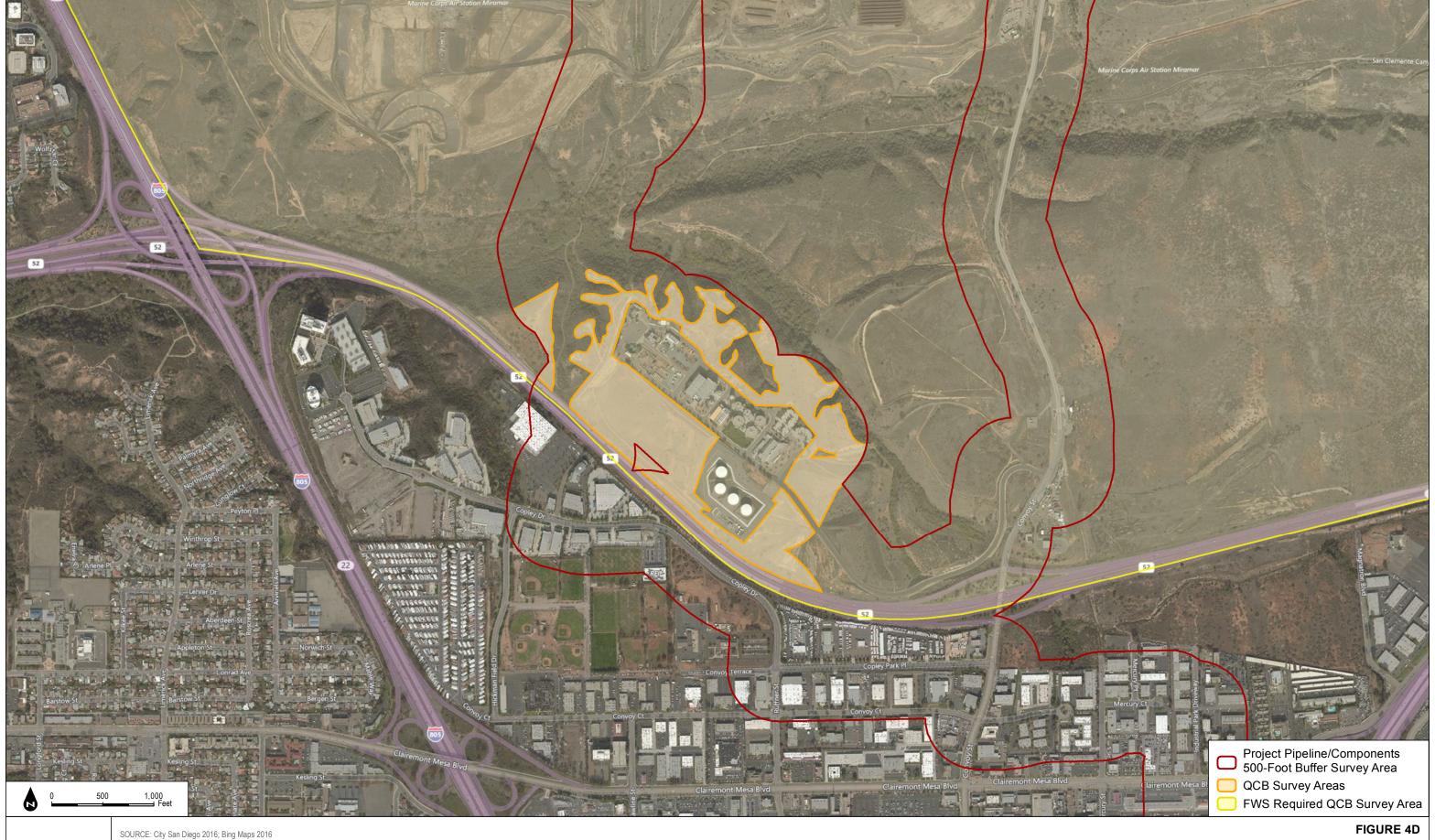


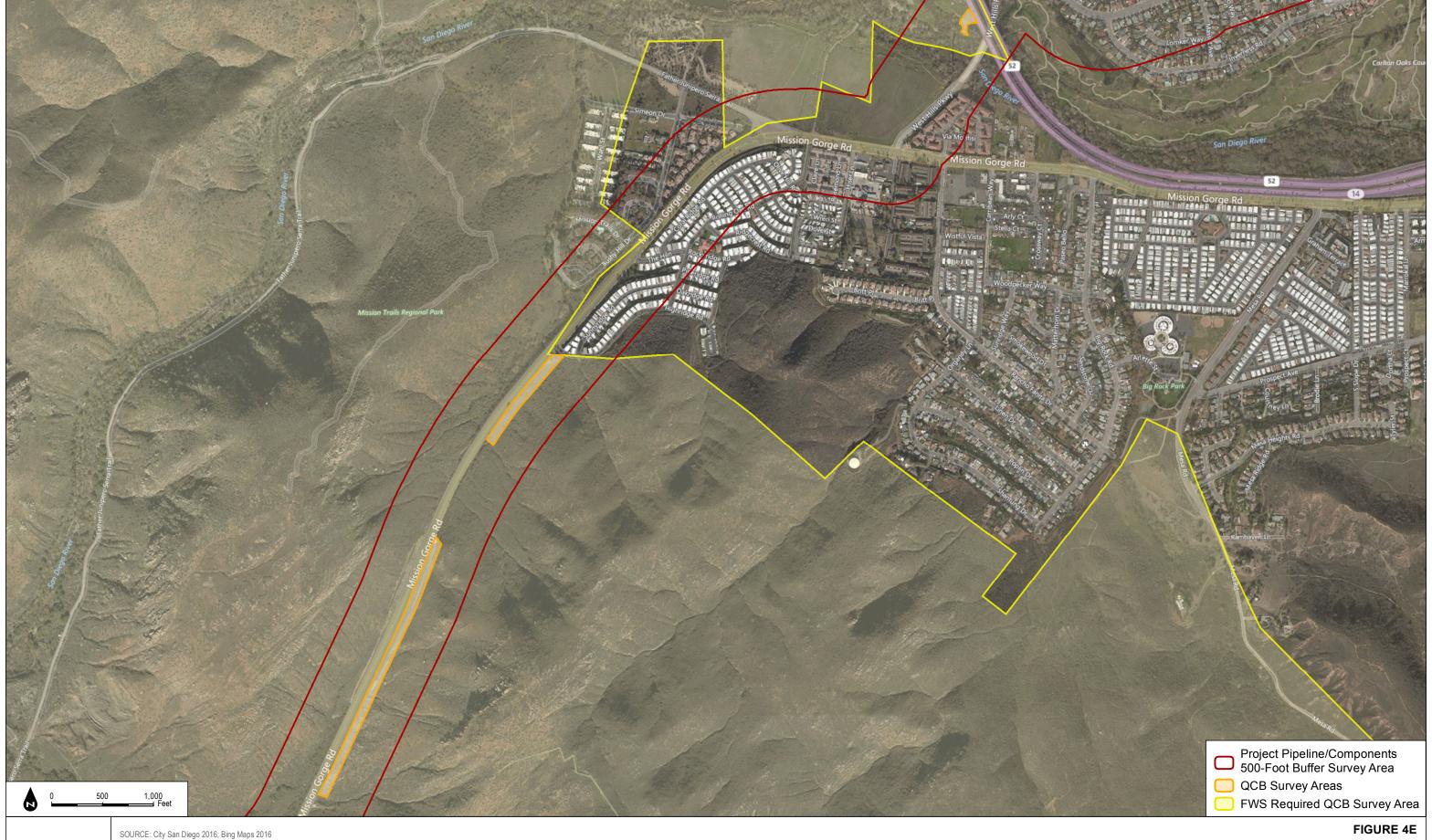
SOURCE: City San Diego 2016; Bing Maps 2016



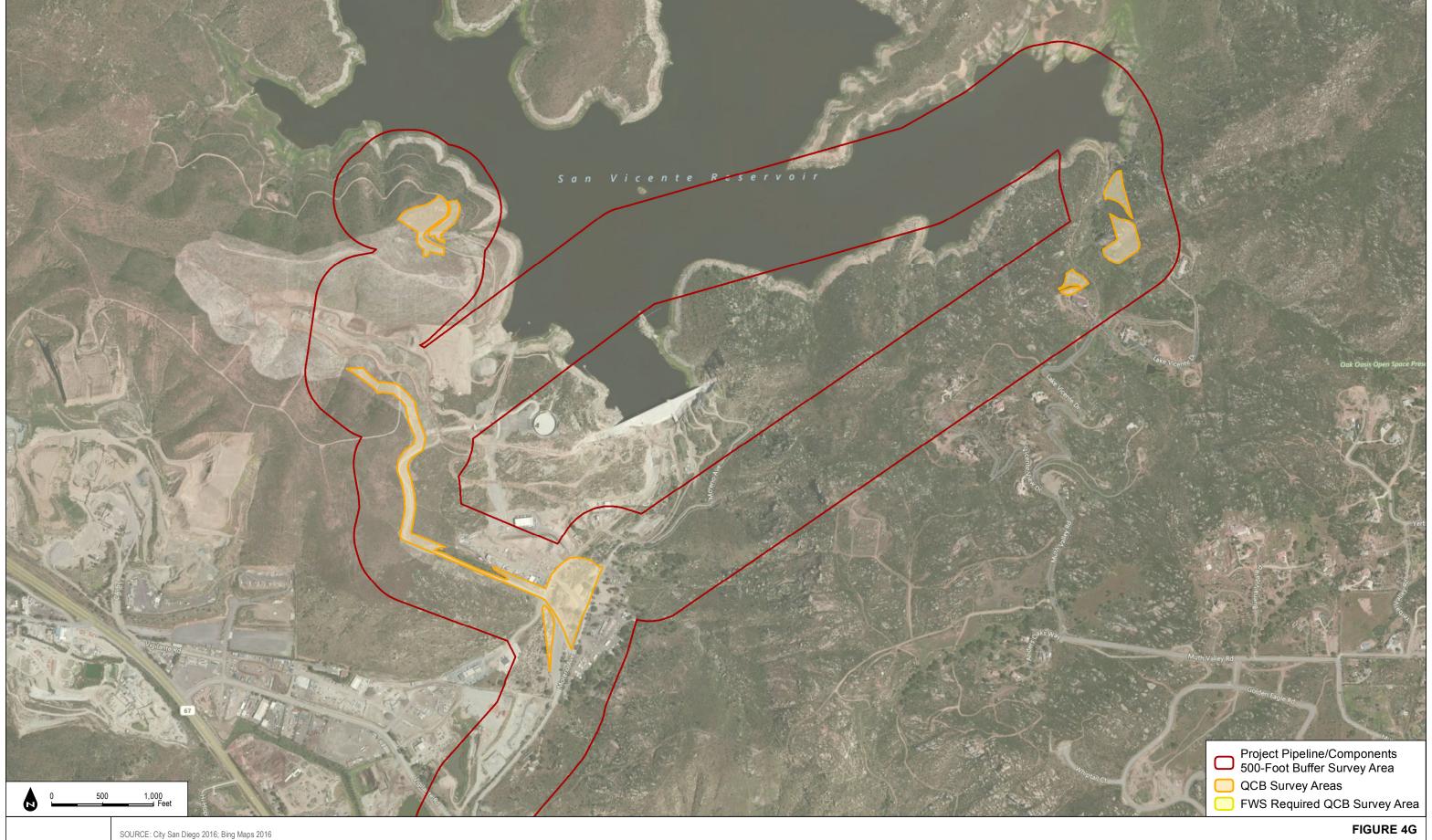
SOURCE: City San Diego 2016; Bing Maps 2016

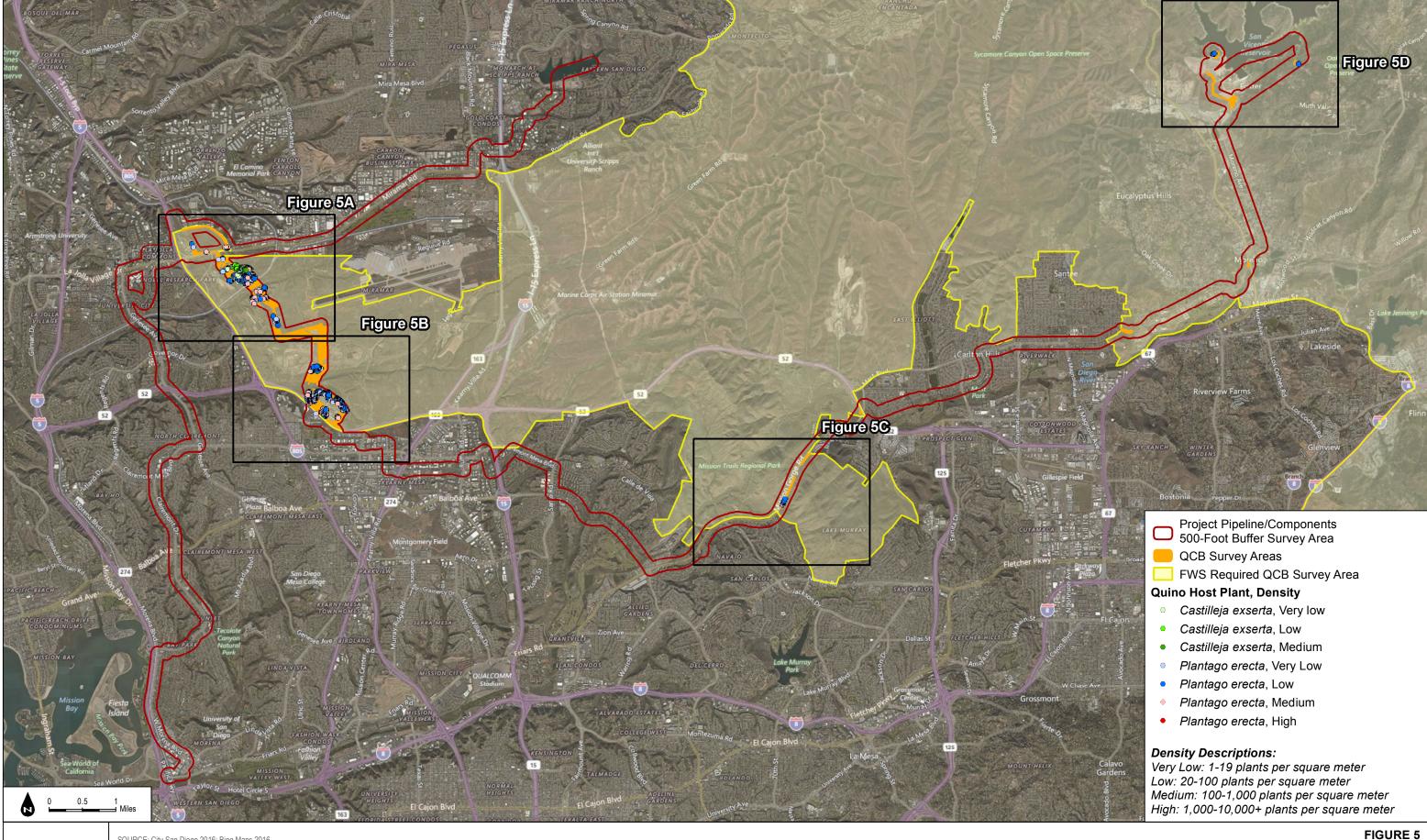






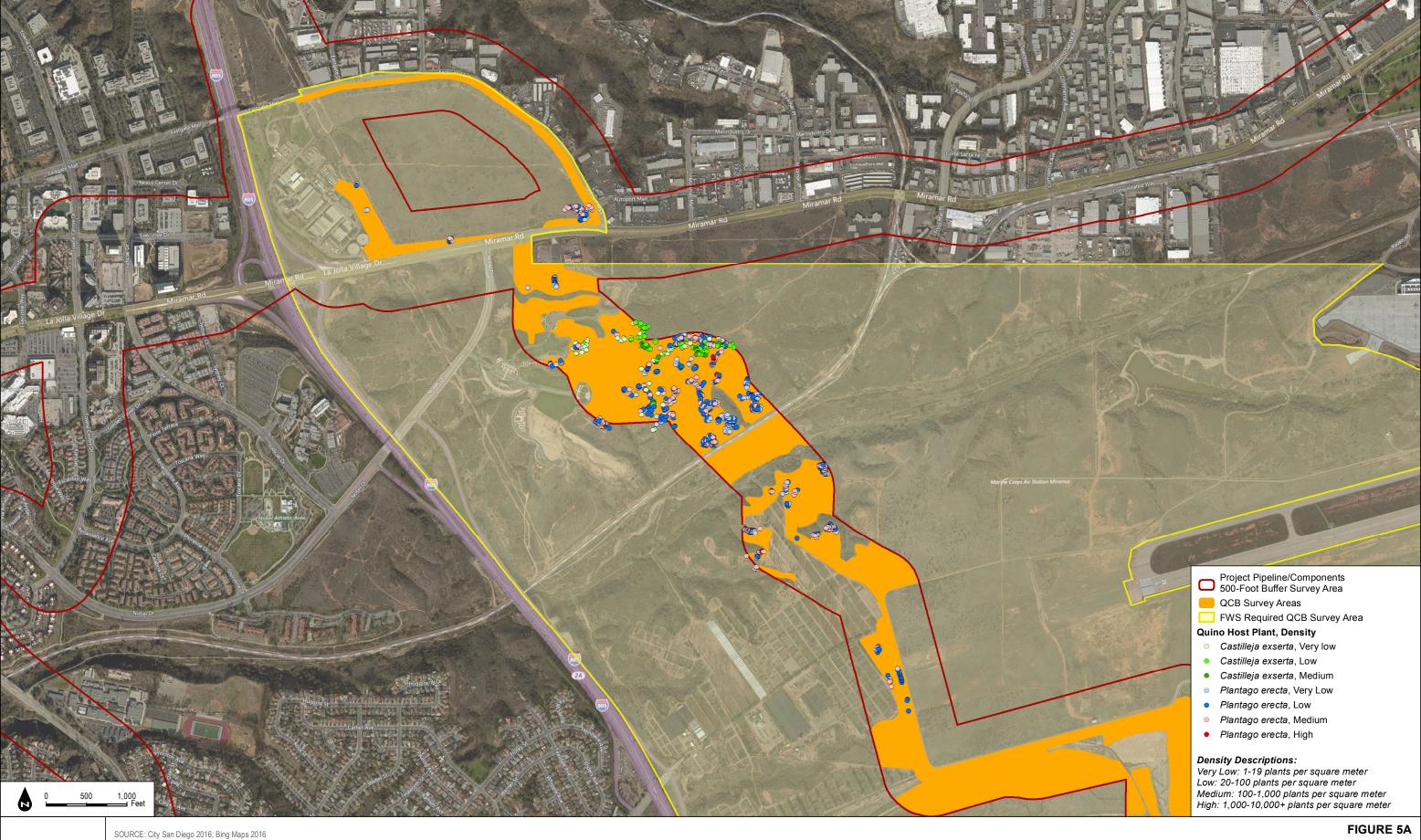




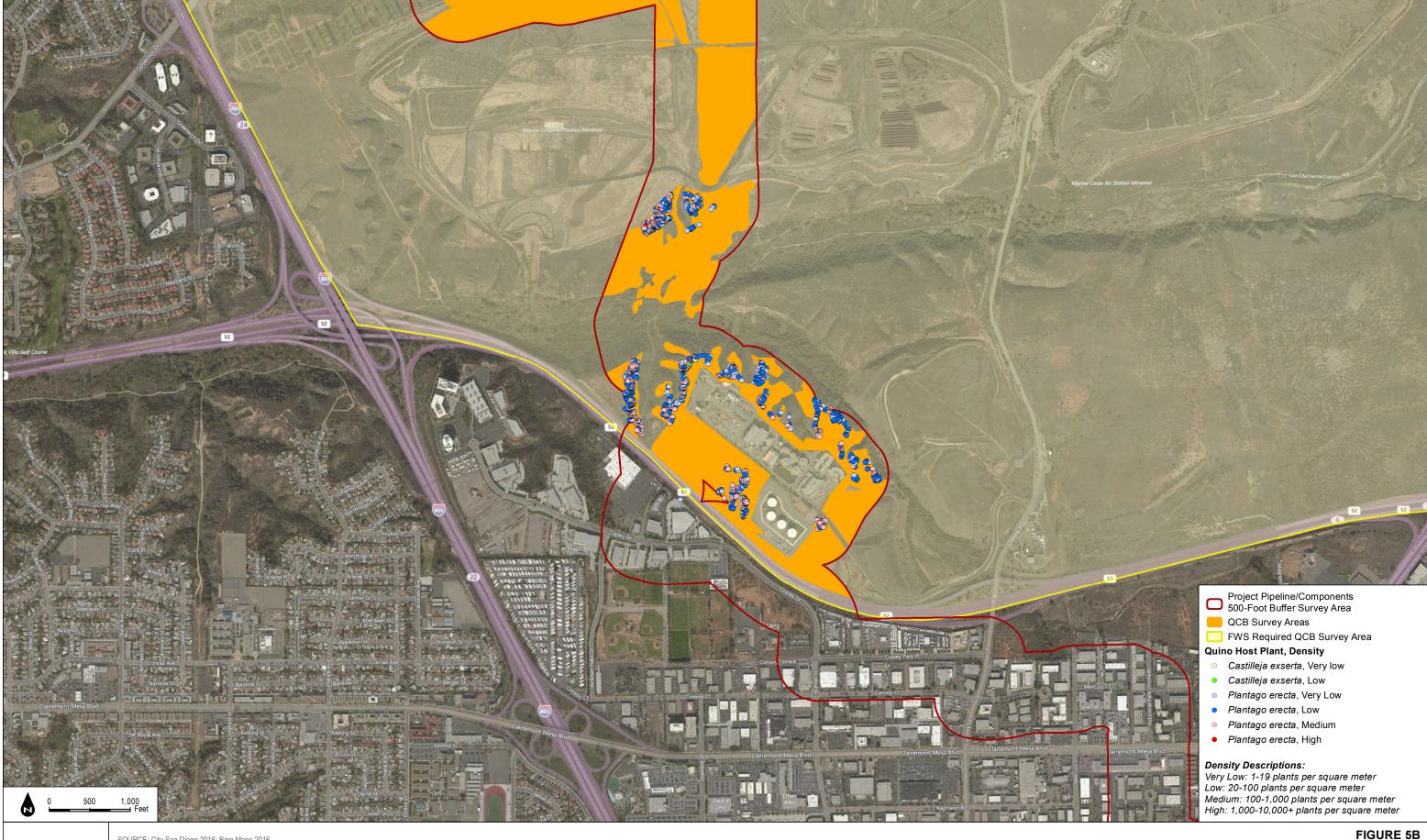


SOURCE: City San Diego 2016; Bing Maps 2016

Quino Host Plant Locations



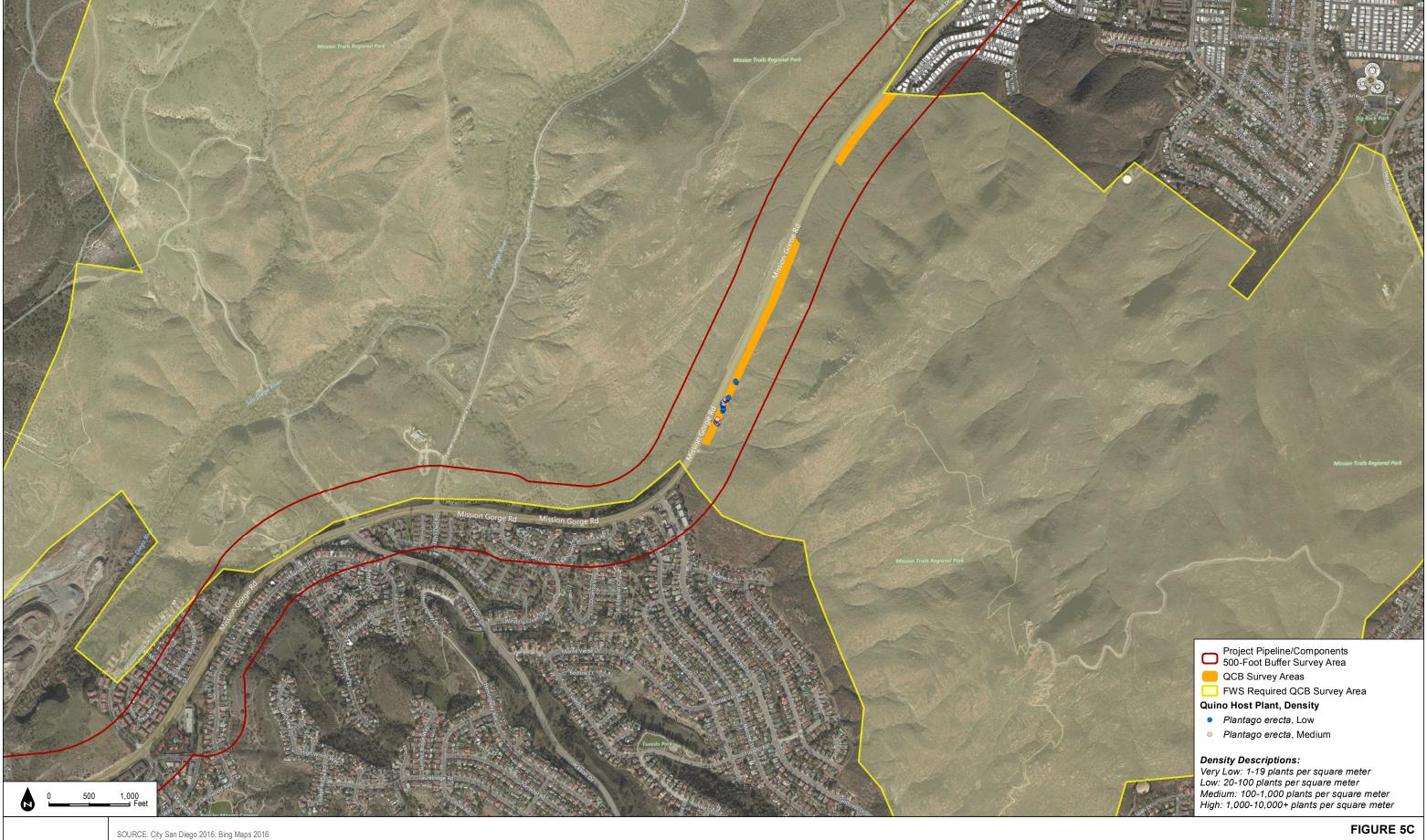
Quino Host Plant Locations



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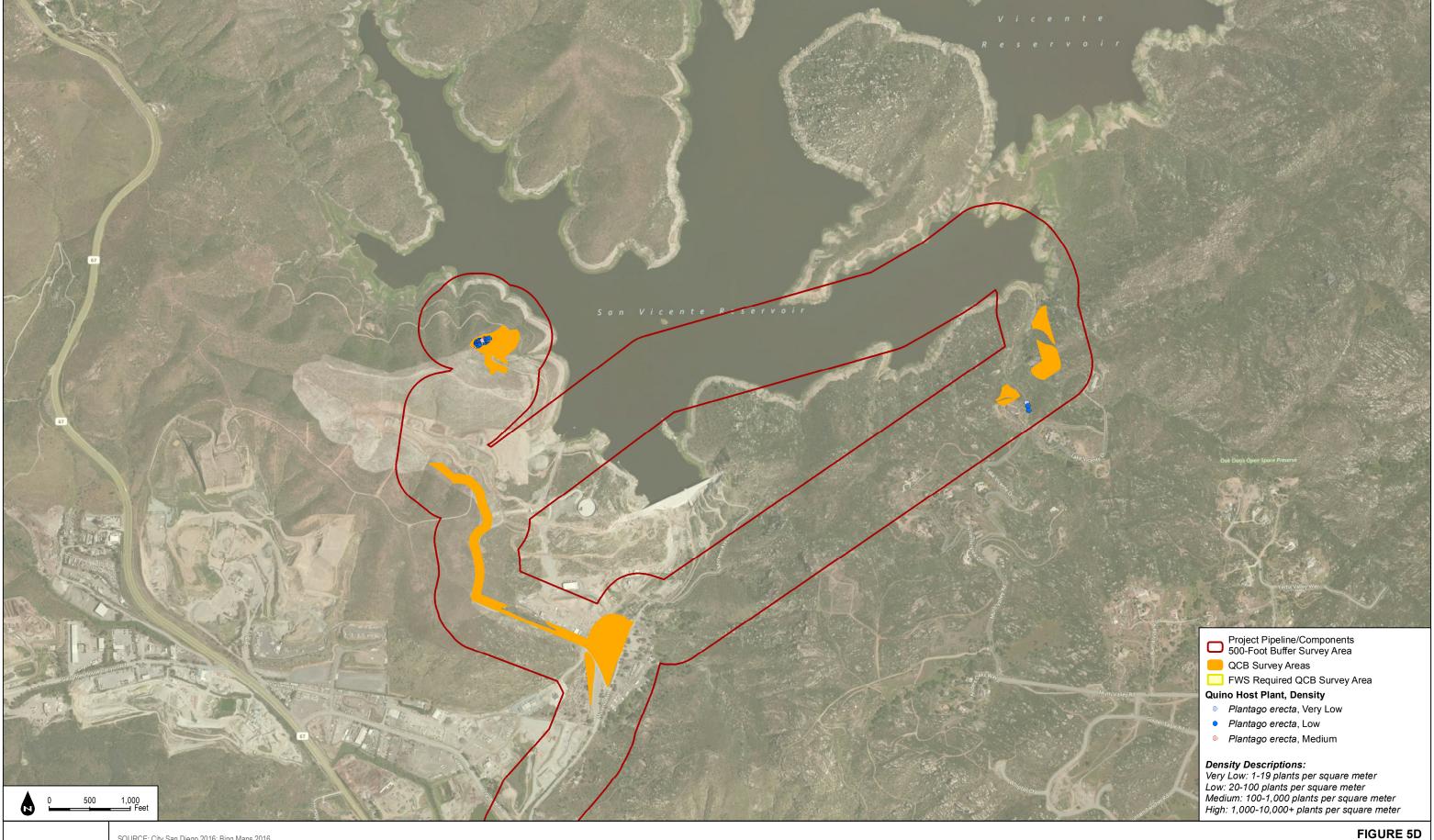
SOURCE: City San Diego 2016; Bing Maps 2016

Quino Host Plant Locations



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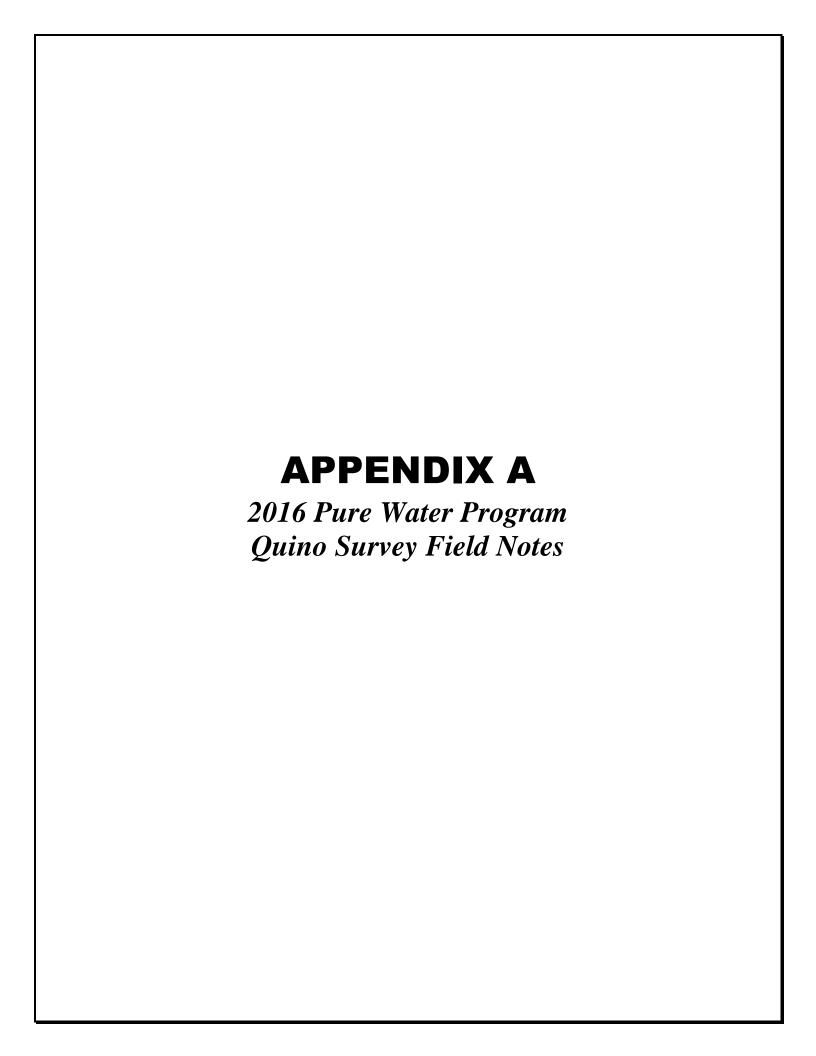
Quino Host Plant Locations



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SOURCE: City San Diego 2016; Bing Maps 2016

Quino Host Plant Locations



Ouino	Chec	kerspot	General	Form
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Location PUREWATER NURSERY AREA Surveyor area CHATMAN		Date 21may 2016 Survey Week Number (12			
Survey Partner(s) Fotal Acres: F	Portion Surveyed:	Elevation: Max	Min		

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start/0:00	50%	clear patchy overcast drizzle shower	4-6 mgh	69° F
11:00	40%	clear patch overcast drizzle shower	4-6 mph	700/2
12:00	30%	clear patchy overcast drizzle shower	5-bugh	7000
7000		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower	Г	
		clear patchy overcast drizzle shower		
Stop/3:00	25%	clear patchy overcast drizzle shower	5-74ph	71ºF

Habitat onsite (circle as applicable): hilltops, ridges, rock outcrops, open soils, soil crusts clay soils told roads Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		and Plants	Leptotes marina (Marine Blue)	3	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)	2	
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	5	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		7.
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	6	
Hesperidae			Colias eurytheme (Orange Sulphur)	2	
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	2	1000	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	1		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: Hemiargus ceraunus quas		
Erynnis propertius (Propertius Duskywing)			(Ceraunus blue)		
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)			Fughilotes hernardino	5	
Atlides halesus (Great Purple Hairstreak)			(Remardino blue)		
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	4				
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Comments:	Segment #_	A STATE OF THE PARTY OF THE PAR	Date: 21 may 2016
	A STATE OF THE PARTY OF THE PAR	0.00	10/01/2 KIND
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13			
ost Plants Present:	Plantago erecta		
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ctar Plants Present:	D		
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Quino Sighting	Date	CDCI	
Quino Sighting	Date:	GPS Location:	
S Market 1	Date:	GPS Location:	
S Impanil	Autoria - Autori	GPS Location:	
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Location PURE WATER	LILLESETY AREA	Survey Segment	AKEA (16)
Surveyor GRET G	CHATMAN	Date 23 may 2016 Surve	ey Week Number (12)
Survey Partner(s) 74	= powere's		
	ortion Surveyed:	Flevation: M	ax Min

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start //:30	30%	clear patchy overcast drizzle shower	2-4 mp	710F
12:00	25%	clear patchy overcast drizzle shower	4-6m	73°F
13:00	20%	clear patchy overcast drizzle shower	3-6 de	7405
14:00	20%	clear patchy overcast drizzle shower	9-6 m	73°F
		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
Stop 15:00	20%	clear patchy overcast drizzle shower	4-74	73°F

Habitat onsite (circle as applicable): hilltops, ridges, lock outcrops, open soils, soil crusts clay soil, old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		and Pro-	Leptotes marina (Marine Blue)	+10	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	5	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)	Tel anni	0.00	Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)	2	-	Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	+10	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		man The	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	3		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			1	1	
Erynnis propertius (Propertius Duskywing)			(California sister)		
Ochlodes agricola (Rural Skipper)					4411
Lycaenidae (Hairstreaks)			Eulhilotes Dernardino	3	
Atlides halesus (Great Purple Hairstreak)			Euphilotes Dernardino		
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	6				
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

11.

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GENERAL SURVEY INFORMATION			
Project Name	Pure Water Program		
Survey Date	2016-02-21		
Biologist(s)	Brock Ortega		
Survey Area	1		
Survey Pass	1		

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	11:12:00	70		0	1-3	clear	
End	12:50:00	75		0	1-3	clear	

	BUTTERFLY LIST SPECIES (COUNT)				
Acmon blue (4)	common buckeye (4)	painted lady (3)			
Behr's metalmark (5)	Pacific sara orangetip (15)	queen (1)			

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST					
(none)					



GENERAL SURVEY INFORMATION					
Project Name	Pure Water Program				
Survey Date	2016-03-08				
Biologist(s)	Dale Powell, Greg Chatman, June Powell				
Survey Area	1				
Survey Pass	2				

	SURVEY CONDITIONS						
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:10:00	60		0	1-2	clear	
	10:00:00	60		0	1-2	clear	
End	10:45:00	63			2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)				
funereal duskywing (1)	Mormon metalmark (2)	western pygmy-blue (2)			
monarch (1)	painted lady (1)	white checkered-skipper (3)			

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST						
Castilleja exserta	Encelia spp. Plantago erecta					
Cryptantha spp.	Lasthenia spp. Yerba santa					



GENERAL SURVEY INFORMATION					
Project Name	Pure Water Program				
Survey Date	2016-03-13				
Biologist(s)	Dale Powell, Greg Chatman, June Powell				
Survey Area	1				
Survey Pass	3				

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:30:00		63	20	1-2	patchy	
	10:00:00		66	0	1-2	clear	
End	11:00:00		68	0	1-2	clear	
	12:00:00		68	0	1-2	clear	
	13:00:00		68	0	4-6	clear	
End	13:45:00		68	0	4-6	clear	

BUTTERFLY LIST SPECIES (COUNT)						
anise swallowtail (1+)	fiery skipper (2)	southern blue (6)				
California sister (1+)	Mormon Metalmark (3)	western pygmy-blue (5)				
common california ringlet (1)	Pacific sara orangetip (4)					

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)			
(none)			

	INCIDENTAL PLANT LIST			
(1	none)			



GENERAL SURVEY INFORMATION			
Project Name	Pure Water Program		
Survey Date	2016-03-08		
Biologist(s) Dale Powell, Greg Chatman, June Powell			
Survey Area	2		
Survey Pass	2		

	SURVEY CONDITIONS						
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	11:00:00	65		0	4-6	clear	
	12:00:00	65		0	4-6	clear	
End	13:00:00	66		0	6-9	clear	

BUTTERFLY LIST SPECIES (COUNT)			
common california ringlet (1)	Mormon metalmark (3)	white checkered-skipper (2)	
fiery skipper (2)	southern blue (5)		
funereal duskywing (1)	western pygmy-blue (1)		

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)			
(none)			

INCIDENTAL PLANT LIST				
Castilleja exserta	Encelia spp.	Yerba santa		
Cryptantha spp.	Lasthenia spp.			
Dichelostemma capitatum	Plantago erecta			



GENERAL SURVEY INFORMATION			
Project Name	Pure Water Program		
Survey Date	2016-03-13		
Biologist(s)	Dale Powell, Greg Chatman, June Powell		
Survey Area	2		
Survey Pass	3		

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	14:15:00		68		4-6	clear	
	15:00:00		69		4-6	clear	
	16:00:00		67		4-6	clear	
End	16:45:00		66		4-6	clear	

	BUTTERFLY LIST SPECIES (COUNT)		
fiery skipper (2)	Pacific sara orangetip (6)		

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)			
(none)			

INCIDENTAL PLANT LIST			
(none)			



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-08			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	3			
Survey Pass	2			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	13:40:00	64		0	6-9	clear	
	14:00:00	64		0	6-9	clear	
	15:00:00	71		0	2-4	clear	
	16:00:00	69		0	6-9	clear	
End	16:30:00	68		0	6-9	clear	

	BUTTERFLY LIST SPECIES (COUNT)				
common california ringlet (1)	Pacific sara orangetip (2)	western pygmy-blue (3)			
Mormon metalmark (4)	southern blue (3)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST					
Castilleja exserta	Encelia spp.	Yerba santa			
Cryptantha spp.	Lasthenia spp.				
Dichelostemma capitatum	Plantago erecta				



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-09			
Biologist(s)	Greg Chatman			
Survey Area	3			
Survey Pass	2			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	11:00:00		71	0	2-4	clear	
End	11:50:00		71	0	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)	
anise swallowtail (1)	white checkered-skipper (2)	

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

INCIDENTAL PLANT LIST				
Castilleja exserta	Dichelostemma capitatum	Yerba santa		
Cryptantha sp.	Plantago erecta			



GENERAL SURVEY INFORMATION			
Project Name	Pure Water Program		
Survey Date	2016-03-09		
Biologist(s)	Dale Powell, Greg Chatman, June Powell		
Survey Area	3		
Survey Pass	2		

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	15:00:00		68	10	4-8	clear	
	16:00:00		67	10	4-6	clear	
End	16:30:00		66	10	4-6	clear	

	BUTTERFLY LIST SPECIES (COUNT)	
funereal duskywing (1)		

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST					
Castilleja exserta Dichelostemma capitatum Yerba santa					
Chamise	Plantago erecta				
Cryptantha	Rhus				



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-09			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	4			
Survey Pass	2			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	12:15:00		71	0	2-4	clear	
	13:00:00		71	0	2-4	clear	
	14:00:00		71	10	2-4	clear	
End	15:00:00		70	10	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)			
California sister (1)	Pacific sara orangetip (2)			
Mormon Metalmark (3)	southern blue (2)			

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST				
Castilleja exserta	Encelia	Yerba santa		
Cryptantha	Lasthenia			
Dichelostemma capitatum	Plantago erecta			



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-10			
Biologist(s)	Greg Chatman			
Survey Area	4			
Survey Pass	2			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	15:30:00		70	0	2-4	clear	
	16:00:00		68	0	2-4	clear	
End	16:45:00		67	0	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)		
funereal duskywing (1)	Pacific sara orangetip (1)		

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST		
(none)		



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-03-22	
Biologist(s)	Dale Powell, Greg Chatman, June Powell	
Survey Area	4	
Survey Pass	4	

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	12:00:00		63	30	6-10	patchy	
	13:00:00		65	20	6-10	patchy	
	14:00:00		67	20	5-7	clear	
	15:00:00		67	20	4-8	clear	
End	16:00:00		65	10	4-8	clear	

	BUTTERFLY LIST SPECIES (COUNT)		
California sister (2)	funereal duskywing (3)	southern blue (1)	
common buckeye (2)	Mormon Metalmark (5)		

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)		
(none)		

	INCIDENTAL PLANT LIST	
Castilleja exserta	Dichelostemma capitatum	Plantago erecta
Cryptantha sp.	Lasthenia sp.	Yerba santa sp.



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-03-10	
Biologist(s)	Dale Powell, Greg Chatman, June Powell	
Survey Area	5	
Survey Pass	2	

	SURVEY CONDITIONS						
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:15:00		68	0	1-2	clear	
	10:00:00		73	0	1-2	clear	
	11:00:00		75	0	4-6	clear	
End	11:30:00		75	0	4-6	clear	

	BUTTERFLY LIST SPECIES (COUNT)		
cloudless sulphur (1)	funereal duskywing (1)	western pygmy-blue (6)	
fiery skipper (2)	Pacific sara orangetip (2)	white checkered-skipper (5)	

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)		
(none)		

INCIDENTAL PLANT LIST		
Buckwheat sp.	Dichelostemma capitatum	Rhus.
Chamise sp.	Encelia sp.	Yerba santa
Cryptantha sp.		



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-03-10	
Biologist(s)	Dale Powell, Greg Chatman, June Powell	
Survey Area	7	
Survey Pass	2	

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	12:00:00		76	0	4-6	clear	
	13:00:00		72	0	2-4	clear	
End	14:00:00		70	0	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)	
Mormon Metalmark (2)	painted lady (1)	white checkered-skipper (2)

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST					
Buckwheat sp.	Cryptantha sp.	Rhus sp.			
Castilleja exserta	Dichelostemma capitatum	Yerba santa			
Chamise sp.	Plantago erecta				



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-15			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	7			
Survey Pass	3			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:15:00		65	0	1-2	clear	
	10:00:00		69	0	1-2	clear	
	11:00:00		73	0	2-3	clear	
End	11:30:00		75	0	2-4	clear	

BUTTERFLY LIST SPECIES (COUNT)					
California sister (1)	orange sulphur (3)	southern blue (2)			
fiery skipper (2)	Pacific sara orangetip (6)				
funereal duskywing (3)	red admiral (1)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

INCIDENTAL PLANT LIST				
(none)				



GENERAL SURVEY INFORMATION					
Project Name	Pure Water Program				
Survey Date	2016-03-15				
Biologist(s)	Dale Powell, Greg Chatman, June Powell				
Survey Area	7				
Survey Pass	3				

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:15:00		65	0	1-2	clear	
	10:00:00		69	0	1-2	clear	
	11:00:00		73	0	2-3	clear	
End	11:30:00		75	0	2-4	clear	

BUTTERFLY LIST SPECIES (COUNT)					
California sister (1)	orange sulphur (3)	southern blue (2)			
fiery skipper (2)	Pacific sara orangetip (6)				
funereal duskywing (3)	red admiral (1)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST				
(none)				



GENERAL SURVEY INFORMATION				
Project Name Pure Water Program				
Survey Date	2016-03-23			
Biologist(s)	Greg Chatman			
Survey Area	7			
Survey Pass	4			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	10:00:00		63	0	1-2	clear	
	11:00:00		68	0	1-2	clear	
End	12:00:00		73	0	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)				
common buckeye (2)	Mormon Metalmark (10)	Pacific sara orangetip (20)			
funereal duskywing (4)	northern white-skipper (10)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST					
Buckwheat sp. Dichelostemma capitatum Plantago erecta					
Castilleja exserta	Encelia sp.				
Cryptantha sp.	Lasthenia sp.				



GENERAL SURVEY INFORMATION				
Project Name Pure Water Program				
Survey Date	2016-03-11			
Biologist(s)	logist(s) Greg Chatman			
Survey Area	8			
Survey Pass	2			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	08:30:00		64		1-2		
	09:00:00		65		1-2		
End	10:00:00		70	0	2-4	clear	
	12:00:00		70	0	2-4	clear	
	13:00:00		71	0	4-8	clear	
	14:00:00		72	0	4-8	clear	
End	14:30:00		71	0	4-8	clear	

BUTTERFLY LIST SPECIES (COUNT)				
checkered white (3)	Pacific sara orangetip (15)	red admiral (1+)		
funereal duskywing (4)	painted lady (1+)			
Mormon Metalmark (10)	pale swallowtail (2)			

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST				
(none)				

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GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-15			
Biologist(s)	Greg Chatman			
Survey Area	8			
Survey Pass	3			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	12:30:00		74	0	2-4	clear	
	13:00:00		76	0	2-4	clear	
	14:00:00		78	0	4-6	clear	
	14:50:00		78	0	4-6	clear	
End	15:30:00		78	0	4-6	clear	

BUTTERFLY LIST SPECIES (COUNT)					
Acmon blue (1)	Mormon Metalmark (15)	western tiger swallowtail (1)			
common buckeye (3)	northern white-skipper (5)				
fiery skipper (2)	Pacific sara orangetip (9)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

INCIDENTAL PLANT LIST					
(none)					



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-16			
Biologist(s)	Greg Chatman			
Survey Area	8			
Survey Pass	3			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	10:30:00		71	0	1-2	clear	
	11:00:00			0	1-2	clear	
	12:00:00			0	2-3	clear	
	13:00:00			0	2-4	clear	
	14:00:00			0	1-2	clear	
	15:00:00			0	1-2	clear	
End	16:45:00			0	2-3	clear	

BUTTERFLY LIST SPECIES (COUNT)					
checkered white (6)	Mormon Metalmark (20)	west coast lady (1)			
dainty sulphur (1)	Pacific sara orangetip (20)				
funereal duskywing (4)	southern blue (2)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

INCIDENTAL PLANT LIST					
(none)					



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-21			
Biologist(s)	Greg Chatman			
Survey Area	8			
Survey Pass	4			

	SURVEY CONDITIONS						
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	10:00:00		62	0	1-2	clear	
	10:45:00		64	0	1-3	clear	
	11:15:00		76	0	4-6	clear	
	12:30:00		76	0	4-6	clear	
	13:00:00		78	0	4-7	clear	
	14:00:00		78	0	6-8	clear	
End	14:30:00		76	0	5-7	clear	

BUTTERFLY LIST SPECIES (COUNT)					
common buckeye (1)	Mormon Metalmark (12)	white checkered-skipper (1)			
funereal duskywing (6)	Pacific sara orangetip (20)				
gray hairstreak (2)	pale swallowtail (1)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST					
Castilleja exserta	Dichelostemma capitatum	Lasthenia sp.			
Cryptantha sp.	Eriogonum sp.	Plantago erecta			



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-02-28			
Biologist(s)	Brock Ortega			
Survey Area	Far eastern			
Survey Pass	2			

	SURVEY CONDITIONS						
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	13:10:00	76		20	3-5	patchy	
End	15:20:00	77		20	3	patchy	

	BUTTERFLY LIST SPECIES (COUNT)					
Acmon blue (3)	common california ringlet (1)	southern blue (2)				
Behr's metalmark (8)	Pacific sara orangetip (7)	western tiger swallowtail (1)				
common buckeye (2)	painted lady (1)	white checkered-skipper (1)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST				
(none)				



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-05			
Biologist(s)	Brock Ortega			
Survey Area	Far eastern			
Survey Pass	3			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:00:00	65		20	3-5	patchy	
End	10:00:00	67		30	3-5	patchy	

	BUTTERFLY LIST SPECIES (COUNT)					
Acmon blue (5)	checkered white (1)	painted lady (1)				
anise swallowtail (1)	common buckeye (3)	southern blue (3)				
Behr's metalmark (2)	Pacific sara orangetip (13)	Sulphur (1)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST		
(none)		



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-03-13	
Biologist(s)	Brock Ortega	
Survey Area	Mission Gorge Rd, Far eastern	
Survey Pass	3	

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)		Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	10:45:00	71		20	3-5	patchy	
End	15:20:00	73		30	5	patchy	

	BUTTERFLY LIST SPECIES (COUNT)	
Acmon blue (8)	common buckeye (7)	painted lady (7)
Behr's metalmark (24)	common california ringlet (1)	western tiger swallowtail (2)
California patch (1)	monarch (1)	white checkered-skipper (2)
checkered white (5)	Pacific sara orangetip (16)	

INCIE	DENTAL WILDLIFE LIST SPECIES (C	OUNT)
(none)		

	INCIDENTAL PLANT LIST	
(none)		



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-02-29	
Biologist(s)	Dale Powell, Greg Chatman, June Powell	
Survey Area	NE Miramar Rd & I 805 intersection, 1	
Survey Pass	1	

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)		Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:15:00	63		0	2-4	clear	
End	10:00:00	64		0	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)	
western pygmy-blue (2)		

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)		
(none)		

INCIDENTAL PLANT LIST		
Cryptantha sp.		



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-02-29	
Biologist(s)	Dale Powell, Greg Chatman, June Powell	
Survey Area	NE Miramar Rd & I805 intersection, 1	
Survey Pass	1	

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)		Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:15:00	63		0	2-4	clear	
End	10:00:00	64		0	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)	
western pygmy-blue (2)		

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST				
Cryptantha spp.				



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-01			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	NE of Landfill, 5			
Survey Pass	1			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)		Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:30:00	68		0	2-4	clear	
End	11:00:00	74		0	2-4	clear	

BUTTERFLY LIST SPECIES (COUNT)				
fiery skipper (1)	Pacific sara orangetip (3)	white checkered-skipper (2)		
funereal duskywing (3)	southern blue (2)			
gray hairstreak (1)	western pygmy-blue (1)			

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

INCIDENTAL PLANT LIST				
Cryptantha sp.	Eriodictyon sp.	Plantago erecta		
Dichelostemma sp.	Lasthenia sp.			



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-02-28			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	NW Miramar Rd & I 805 intersection, 1			
Survey Pass	1			

SURVEY CONDITIONS							
Status Time Air Temp. Ground Cloud Wind Cover (%) (mph) Sky Notes							
Start	10:00:00	68		0	1-3	clear	
End	11:15:00	70		0	4-6	clear	

	BUTTERFLY LIST SPECIES (COUNT)				
Acmon blue (1)	Mormon metalmark (3)	white checkered-skipper (2)			
funereal duskywing (1)	western pygmy-blue (4)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST							
Cryptantha sp.	Encelia sp.	Plantago erecta					
Dichelostemma sp.							



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-02-28			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	NW Miramar Rd & I 805 intersection, 2			
Survey Pass	1			

SURVEY CONDITIONS							
Status Time Air Temp. Ground Cloud Wind Cover (%) (mph) Sky Notes							
Start	11:15:00	70		0	4-6	clear	
End	14:45:00	71		0	4-6	clear	

BUTTERFLY LIST SPECIES (COUNT)			
common california ringlet (1)	fiery skipper (1)	southern blue (3)	

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST						
Cryptantha sp.	Encelia sp.	Lasthenia sp.				
Dichelostemma sp. Eriodictyon sp. Plantago erecta						



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-02-28			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	NW Miramar Rd & I805 intersection, 2			
Survey Pass	1			

	SURVEY CONDITIONS						
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	11:15:00	70		0	4-6	clear	
Temp check	12:00:00	70		0	4-6	clear	
Temp check	13:00:00	70		0	4-6	clear	
Temp check	14:00:00	71		0	4-6	clear	
End	14:45:00	71		0	4-6	clear	

	BUTTERFLY LIST SPECIES (COUNT)			
common california ringlet (1)	fiery skipper (1)	southern blue (3)		

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST				
Cryptantha spp.	Golden yarrow	Yerba santa		
Dichelostemma capitatum	Lasthenia spp.			
Encelia spp.	Plantago erecta			



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-01			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	NW of MCAS runways, 4			
Survey Pass	1			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	16:00:00	72		20	4-6	clear	
End	17:00:00	69		20	4-6	clear	

	BUTTERFLY LIST SPECIES (COUNT)			
Pacific sara orangetip (1)	southern blue (2)	western pygmy-blue (1)		

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST						
Cryptantha sp.	Eriodictyon sp.	Plantago erecta				
Dichelostemma sp. Lasthenia sp.						



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-01			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	NW of MCAS runways, 4			
Survey Pass	1			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	16:00:00	72		10	4-6	clear	
End	17:00:00	69		10	4-6	clear	

	BUTTERFLY LIST SPECIES (COUNT)			
Pacific sara orangetip (1)	southern blue (2)	western pygmy-blue (1)		

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST			
Cryptantha spp. Lasthenia spp. Yerba santa			
Dichelostemma capitatum	Plantago erecta		



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-03-01	
Biologist(s)	Dale Powell, Greg Chatman, June Powell	
Survey Area	Near southern treatment plant, 7	
Survey Pass	1	

			SURVE	Y CONDIT	IONS		
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	12:30:00	80		20	4-6	clear	
End	15:00:00	75		20	4-6	clear	

BUTTERFLY LIST SPECIES (COUNT)		
fiery skipper (1)	orange sulphur (1)	southern blue (3)
funereal duskywing (2)	Pacific sara orangetip (5)	western pygmy-blue (2)
Mormon metalmark (3)	red admiral (1)	

INCIE	DENTAL WILDLIFE LIST SPECIES (C	OUNT)
(none)		

	INCIDENTAL PLANT LIST		
Cryptantha sp.	Eriodictyon sp.	Plantago erecta	
Dichelostemma sp. Lasthenia sp.			



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-03-01	
Biologist(s)	Dale Powell, Greg Chatman, June Powell	
Survey Area	Near southern treatment plant, 7	
Survey Pass	1	

			SURVE	Y CONDIT	IONS		
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	12:30:00	80		10	4-6	clear	
Temp check	13:00:00	77		10	4-6	clear	
Temp check	14:00:00	78		10	4-6	clear	
End	15:00:00	75		10	4-6	clear	

BUTTERFLY LIST SPECIES (COUNT)		
fiery skipper (1)	orange sulphur (1)	southern blue (3)
funereal duskywing (2)	Pacific sara orangetip (5)	western pygmy-blue (2)
Mormon metalmark (3)	red admiral (1)	

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)		
(none)		

	INCIDENTAL PLANT LIST	
Cryptantha spp.	Lasthenia spp.	Yerba santa
Dichelostemma capitatum	Plantago erecta	



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-03-01	
Biologist(s)	Dale Powell, Greg Chatman, June Powell	
Survey Area	Northeast of landfill, 5	
Survey Pass	1	

	SURVEY CONDITIONS						
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:30:00	68		0	2-4	clear	
Temp check	10:00:00	70		0	2-4	clear	
End	11:00:00	74		0	2-4	clear	

BUTTERFLY LIST SPECIES (COUNT)					
fiery skipper (1)	Pacific sara orangetip (3)	white checkered-skipper (2)			
funereal duskywing (3)	southern blue (2)				
gray hairstreak (1)	western pygmy-blue (1)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

INCIDENTAL PLANT LIST						
Cryptantha spp.	Goldfields	Yerba santa				
Dichelostemma capitatum						



GENERAL SURVEY INFORMATION					
Project Name Pure Water Program					
Survey Date	y Date 2016-03-09				
Biologist(s)	Dale Powell, Greg Chatman, June Powell				
Survey Area	North of East Gate Mall Rd, 1				
Survey Pass	1				

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:15:00	65		0	1-2	clear	
	10:00:00	67		0	1-2	clear	
End	11:00:00	71		0	1-2	clear	

BUTTERFLY LIST SPECIES (COUNT)					
funereal duskywing (1)	Pacific sara orangetip (1)				
monarch (1)	painted lady (1)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

INCIDENTAL PLANT LIST					
Cryptantha spp.	Dichelostemma capitatum				



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-02			
Biologist(s)	Greg Chatman			
Survey Area	North of MCAS runway, 4			
Survey Pass	1			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:30:00	70			1-2	clear	
Temp check	10:00:00	72			1-2	clear	
Temp check	11:00:00	75			2-4	clear	
Temp check	12:00:00	78			2-4	clear	
Temp check	13:00:00	78			2-4	clear	
Temp check	14:00:00	77			3-5	clear	
End	15:30:00	73			3-5	clear	

BUTTERFLY LIST SPECIES (COUNT)						
cabbage white (1)	(1) Mormon metalmark (5) western pygmy-blue (2)					
funereal duskywing (3)	Pacific sara orangetip (10)	western tiger swallowtail (1)				
gray hairstreak (1)	southern blue (5)	white checkered-skipper (2)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST					
Castilleja exserta Dichelostemma capitatum Plantago erecta					
Cryptantha spp. Goldfields Yerba santa					



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-02			
Biologist(s)	Greg Chatman			
Survey Area	North of MCAS runways, 4			
Survey Pass	1			

SURVEY CONDITIONS							
Status Time Air Temp. Ground Cloud Wind Cover (%) Sky Notes							
Start	09:30:00	70			1-2	clear	
End	15:30:00	73			3-5	clear	

BUTTERFLY LIST SPECIES (COUNT)				
cabbage white (1)	Mormon metalmark (5) western pygmy-blue (2)			
funereal duskywing (3)	Pacific sara orangetip (10)	western tiger swallowtail (1)		
gray hairstreak (1)	southern blue (5)	white checkered-skipper (2)		

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST					
Castilleja exserta Dichelostemma sp. Lasthenia sp.					
Cryptantha sp. Eriodictyon sp. Plantago erecta					

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GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	Survey Date 2016-02-28			
Biologist(s) Dale Powell, Greg Chatman, June Powell				
Survey Area	y Area SE Miramar Rd & I 805 intersection, 3			
Survey Pass	1			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	15:00:00	70		10	4-6	clear	
End	16:45:00	67		20	4-6	clear	

BUTTERFLY LIST SPECIES (COUNT)				
funereal duskywing (2)	Pacific sara orangetip (1)	white checkered-skipper (1)		
gray hairstreak (1)	southern blue (4)			
Mormon metalmark (2)	western pygmy-blue (1)			

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST					
Acmispon glaber Dichelostemma sp. Eriodictyon sp.					
Cryptantha sp. Encelia sp. Plantago erecta					



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-02-28			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	SE Miramar Rd & I805 intersection, 3			
Survey Pass	1			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	15:00:00	70		0	4-6	clear	
Temp check	16:00:00	69		10	4-6	clear	
End	16:45:00	67		10	4-6	clear	

BUTTERFLY LIST SPECIES (COUNT)					
funereal duskywing (2)	Pacific sara orangetip (1)	white checkered-skipper (1)			
gray hairstreak (1)	southern blue (4)				
Mormon metalmark (2)	western pygmy-blue (1)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

INCIDENTAL PLANT LIST					
Acmispon glaber	Dichelostemma capitatum	Plantago erecta			
Cryptantha spp.	Encelia spp.	Yerba santa			



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-02-29			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	SE Miramar Rd & I 805 intersection, 3			
Survey Pass	1			

SURVEY CONDITIONS							
Status Time Air Temp. Ground Cloud Wind Cover (%) Sky Notes							Notes
Start	10:00:00	69		0	4-6	clear	
End	14:15:00	72		10	6-8	clear	

	BUTTERFLY LIST SPECIES (COUNT)				
funereal duskywing (3)	Mormon metalmark (3)	southern blue (4)			
gray hairstreak (1)	Pacific sara orangetip (5)	western pygmy-blue (3)			

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

INCIDENTAL PLANT LIST					
Castilleja exserta	Encelia sp.	Plantago erecta			
Cryptantha sp.	Eriodictyon sp.				
Dichelostemma sp.	Lasthenia sp.				



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-02-29			
Biologist(s)	Dale Powell, Greg Chatman, June Powell			
Survey Area	SE Miramar Rd & I805 intersection, 3			
Survey Pass	1			

	SURVEY CONDITIONS						
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	10:00:00	69		0	4-6	clear	
Temp check	11:00:00	67		0	4-6	clear	
Temp check	12:00:00	71		0	6-8	clear	
Temp check	13:00:00	71		0	6-8	clear	
Temp check	14:00:00	72		0	6-8	clear	
End	14:15:00	72		0	6-8	clear	

	BUTTERFLY LIST SPECIES (COUNT)				
funereal duskywing (3)	Mormon metalmark (3)	southern blue (4)			
gray hairstreak (1)	Pacific sara orangetip (5)	western pygmy-blue (3)			

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST				
Castilleja exserta	Encelia spp.	Yerba santa		
Cryptantha spp.	Lasthenia spp.			
Dichelostemma capitatum	Plantago erecta			



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-04			
Biologist(s)	Greg Chatman			
Survey Area	SE Miramar Rd & I805 intersection. Widened area., 3, 5			
Survey Pass	1			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:30:00	66		0	2-4	clear	
Temp check	10:00:00	67		0	2-4	clear	
Temp check	11:00:00	68		0	2-4	clear	
End	11:30:00	69		0	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)			
anise swallowtail (1)	Mormon metalmark (3)			
funereal duskywing (2)	southern blue (3)			

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST					
Cryptantha spp.	Goldfields	Yerba santa			
Dichelostemma capitatum	Plantago erecta				



GENERAL SURVEY INFORMATION				
Project Name	Pure Water Program			
Survey Date	2016-03-04			
Biologist(s)	Greg Chatman			
Survey Area	Sae Miramar Rd & I 805 intersection, 3, 5			
Survey Pass	1			

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)		Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:30:00	66		0	2-4	clear	
End	11:30:00	69		0	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)	
anise swallowtail (1)	Mormon metalmark (3)	
funereal duskywing (2)	southern blue (3)	

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST			
Cryptantha sp.	Eriodictyon sp.	Plantago erecta	
Dichelostemma sp. Lasthenia sp.			



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-03-03	
Biologist(s)	Greg Chatman	
Survey Area	San Diego River/San Vicente Res., 8	
Survey Pass	1	

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)		Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:00:00	67		0	2-4	clear	
End	17:00:00	68		0	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)		
common buckeye (2)	Pacific sara orangetip (15)	southern blue (6)	
Mormon metalmark (5)	pale swallowtail (1)	west coast lady (1)	

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)		
(none)		

INCIDENTAL PLANT LIST			
Castilleja exserta Dichelostemma sp. Plantago erecta			
Cryptantha sp.	Eriodictyon sp.		



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-03-03	
Biologist(s)	Greg Chatman	
Survey Area	San Diego River/San Vincente Res., 8	
Survey Pass	1	

			SURVEY	CONDIT	IONS		
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	09:00:00	67		0	2-4	clear	
Temp check	10:00:00	68		0	2-4	clear	
Temp check	11:00:00	72		0	2-4	clear	
Temp check	12:00:00	74		0	2-4	clear	
Temp check	13:00:00	73		0	4-6	clear	
Temp check	16:00:00	70		0	4-6	clear	
End	17:00:00	68		0	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT,)
common buckeye (2)	Pacific sara orangetip (15)	southern blue (6)
Mormon metalmark (5)	pale swallowtail (2)	west coast lady (1)

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)		
(none)		

INCIDENTAL PLANT LIST			
Cryptantha spp.	Plantago erecta		
Dichelostemma capitatum Yerba santa			



GENERAL SURVEY INFORMATION		
Project Name	Pure Water Program	
Survey Date	2016-02-29	
Biologist(s)	Dale Powell, Greg Chatman, June Powell	
Survey Area	Villace Nursery Area, 5	
Survey Pass	1	

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	14:30:00	72		10	6-8	clear	
End	15:15:00	71		10	6-8	clear	

	BUTTERFLY LIST SPECIES (COUNT)				
funereal duskywing (1)	Pacific sara orangetip (2)	western pygmy-blue (2)			
Mormon metalmark (1)	southern blue (1)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

INCIDENTAL PLANT LIST					
Cryptantha sp. Encelia sp.					
Dichelostemma sp.	Plantago erecta				



GENERAL SURVEY INFORMATION					
Project Name	Pure Water Program				
Survey Date	2016-02-29				
Biologist(s)	Dale Powell, Greg Chatman, June Powell				
Survey Area	Villace nursery area, 5				
Survey Pass	1				

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	14:30:00	72		10	6-8	clear	
Temp check	15:00:00	71		10	6-8	clear	
End	15:15:00	71		10	6-8	clear	

	BUTTERFLY LIST SPECIES (COUNT)				
funereal duskywing (1)	Pacific sara orangetip (2)	western pygmy-blue (2)			
Mormon metalmark (1)	southern blue (1)				

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

INCIDENTAL PLANT LIST				
Cryptantha spp.	Encelia spp.			
Dichelostemma capitatum	Plantago erecta			



GENERAL SURVEY INFORMATION					
Project Name	Pure Water Program				
Survey Date	2016-03-01				
Biologist(s)	Dale Powell, Greg Chatman, June Powell				
Survey Area	West & south of landfill, 6				
Survey Pass	1				

SURVEY CONDITIONS							
Status	Time	Air Temp. (F)	Ground Temp. (F)	Cloud Cover (%)	Wind (mph)	Sky	Notes
Start	11:00:00	71		0	2-4	clear	
Temp check	12:00:00	74		0	2-4	clear	
End	12:30:00	76		0	2-4	clear	

	BUTTERFLY LIST SPECIES (COUNT)				
cloudless sulphur (2)	orange sulphur (1)	western pygmy-blue (3)			
common buckeye (1)	southern blue (4)	western tiger swallowtail (1)			

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)				
(none)				

INCIDENTAL PLANT LIST					
Cryptantha spp.	Encelia spp.	Plantago erecta			
Dichelostemma capitatum	Lasthenia spp.	Yerba santa			



GENERAL SURVEY INFORMATION					
Project Name	Pure Water Program				
Survey Date	2016-03-01				
Biologist(s)	Dale Powell, Greg Chatman, June Powell				
Survey Area	West and South of landfill, 6				
Survey Pass	1				

SURVEY CONDITIONS								
Status Time Air Temp. Ground Cloud Wind Cover (%) Sky Notes								
Start	11:00:00	71		0	2-4	clear		
End	12:30:00	76		0	2-4	clear		

	BUTTERFLY LIST SPECIES (COUNT)	
common buckeye (1)	western pygmy-blue (3)	
southern blue (4)	western tiger swallowtail (1)	

INCIDENTAL WILDLIFE LIST SPECIES (COUNT)					
(none)					

	INCIDENTAL PLANT LIST	
Cryptantha sp.	Encelia sp.	Lasthenia sp.
Dichelostemma sp.	Eriodictyon sp.	Plantago erecta

Location M	GAR COMETERY	(MCAS)	Survey Segment Linux	ARBA (3)	
Surveyor	EXIS THE POUR	12/	Date 09 man 2016 Survey Week	Number (2)
Survey Partne	er(s) 1 HE POUTE	15		~	
Total Acres: _	Portion Survey	ed:	Elevation: Max	Min	

Time (24 hr)	% Cloud	thelia	ans.	Sky		ran.	Wind (range)	Temp:(F)
Start // :60	0	clear	patchy	overcast	drizzle	shower	2-4 mph	710 F
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop //:50	0	clear	patchy	overcast	drizzle	shower	2-4 up	710 =

Habitat onsite (circle as applicable): hilltops, ridges, rock outcrops, epen soils soil cruss, clay soils old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Jo. Hill- Hopping	Butterfly Species :	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		,	Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		-
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)	1	
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	2		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Allides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

11.

10.

12.

Onina	Checkerspot	General	Form
vumo.	C.Heckersbot	General	LOUI

Location NEXA	- comotog (mcus)	Survey Segment Sullisted Date Of mad 2016 Survey Week	2 Acon (4)
Surveyor Colo	THE POWERUS	Date Ogman 2016 Survey Week	Number (Z)
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	week tops	Sky	A STATE OF	ion.	Wind (range)	Temp.(F)
Start / 2=15	0	clear patch	y overcast	drizzle	shower	Zelonk	700
13:00	0	clear patch	y overcast	drizzle	shower	Zuga	-110 E
14:00	10%	clear patch	y overcast	drizzle	shower	ZMiff	710 8
		clear patch	y overcast	drizzle	shower		
		clear patch	y overcast	drizzle	shower		
		clear patch	y overcast	drizzle	shower		
Stop 15-00	10%	clear) patch	y overcast	drizzle	shower	7-Mayer	70°F

Habitat onsite (circle as applicable): hilltops ridges rock outcrops open soils, soil crusts, clay soils, old roads, Plantago, astilleja Cordylanthus, Antirrhinum, neetar sources.

Butterfly Species Days	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	HIII- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	3	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	2	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Dangus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		2241	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: CALIFORNIAM SISTER		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Allides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Flfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)	2				
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor GRED CHATMAN	Segment # Suprey HOTA (4) Date: 09 WAR 7016
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Comments:			Î
 	GOOD PATCHES	RUN LINGS. IN DEEN ALENS	
Mac Mac	partor mens	Rund lestys.	
		0	
			-
-97			
	3		
Plant Communities and Hab	itat Information: 5	BE suprey utol (1)	
		0	

1			
Host Plants Present:	Plantag erect	4 , Castilles everts	
	7	· · · · · · · · · · · · · · · · · · ·	
F97-			
Nectar Plants Present:	TRBA SATURA, CUMP	MATTHEN ENCENCY BULLFACES, LUSTHER	14
	. 0		
-			
Ouino Sighting	Data	CDC Location	_
Quino Sighting	Date:	GPS Location:	
Photographs Taken:			
		To To	
1.	2,	3· 6.	
4.	5. 8.		
7.	11.	9.	

Location ME	AR VILLAGE NURSERY	Survey Segment Sulve	- AREA (3)
Surveyor	THE VILLAGE NURSBY	Date 09 nat 2016 Survey Weel	Number (Z)
Survey Partner(s) THE POWERCS		D 251
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)						Wind (range)	Temp (I)
Start 15:00	10°	clear patch	y overcast	drizzle	shower	4-8 mm	68°F
16:00	100	clear patch	y overcast	drizzle	shower	4-6 apr	672
		clear patch	y overcast	drizzle	shower		
		clear patch	ny overcast	drizzle	shower		
		clear patch	y overcast	drizzle	shower		
		clear patch	y overcast	drizzle	shower		
Stop 16:30	10%	clear patch	y overcast	drizzle	shower	4-6 up	66°F

Habitat onsite (circle as applicable): hilltops, ridges, rock outcrops, open soils, soil crusts clay soils, old roads, Plantago, Castilleja, Sordylanthus, Antirrhinum, nectar sources,

Butterfly Species	Count (Total)	p Hill- Stopping	Butterfly Species 18	Count (Total)	HIII- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorguini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	1		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Allides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)				-37	
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Comments:		
* 600	OD PATENTS OF PLANATOR	U N OPEN ANCHS EXST
OF	ILLAGE ADGRASTY.	
	·	
	0	

DI + O	hitat Information: (2004)	14 ml 244 18 016.5
Plant Communities and Hai	bitat Information: YBROA S	ANNYA, COMMUNIC (KMG)
4 34		
Host Plants Present:	Plantago erecta, Car	fillera conta
		U
4		
Nectar Plants Present: 40	OPA SHOWING CAPTANTAS	BUT DICES,
0		
		
☐ Quino Sighting	Date:	GPS Location:
	•	
Photographs Taken:		
1.	2.	3.
4.	5.	6.
7•	8.	9.
10.	11.	12.

Quino Checkerspot General Form

Location PAST	OF LAUDFILL	Survey Segment SURVE	3 AREA (5)
Surveyor	est Citizanian	Date 10 mar 2016 Survey Wee	Number (2)
	THE POWER'S		
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	*% Cloud	i was	- 4.10	Sky	The solution	Con	Wind (range)	Temp:(F)
Start <i>9:15</i>	-0-	clear p	atchy	overcast	drizzle	shower	1-2 mph	68° F
10:00	D- 1	clear p	atchy	overcast	drizzle	shower	1-2 mph	73° F
11:00		clean p	atchy	overcast	drizzle	shower	4-6 w/h	75° F
		clear p	atchy	overcast	drizzle	shower		
		clear p	atchy	overcast	drizzle	shower		
		clear p	atchy	overcast	drizzle	shower		
Stop 11:30	0	clean p	atchy	overcast	drizzle	shower	4-6 uph	750

Habitat onsite (circle as applicable): hilltons, ridges, rock outcrops, open soils, soil crusts, clay soils old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count , Hill- (Total) (oppin	Butterfly Species ill	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)	b	
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Rcd Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	2	
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)	2	Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	5	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)		Phoebus counal		
Ochlodes agricola (Rural Skipper)		(cloudless sulphan)		
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)				
Glaucopsyche lygdamus (Southern Blue)				
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

Surveyor fifth Charman	Segme	nt #_Survey ALLEA (5)	Date: 10 n. An 1016
Comments:			
		-	
	180-		
	70	·	
		*	
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Plant Communities and Habita	t Information:	WAN - MATTINE COA	SIE + Tours
	Cha	MILE PLANS CHORA	SHOTA, BUCKWHENT'S
	X.F. 3	, pries j goson	200001
Host Plants Present:	Plantago sep	. (English Plantago)	
Nectar Plants Present:	MANTINA. WEND	A SANA, ENCOLA,	PLAT NEW C
	HARAMA JOSE	" ZHON' Y ENCEDIN Y	p. 1.4.2
7.5-11			
		ana v	
☐ Quino Sighting	Date:	GPS Location:	
Dhata aranka Talaan			
Photographs Taken:			
4.	5.	6	
7.	8.	9	
10.	11.	1:	

Location	NEAR	SOUTHOON	TRENAMENT	PLANT	Survey Segment	SURVEY	AREA (7	2
Surveyor		CHATM		_ Date	10 mar 2016 Sur	vey Week	Number (Z	:2
Survey Par		THE PO						_
Total Acre		Portion Sur			Elevation: 1	Max	Min	_

Time (24 hr)	"% Cloud	the contract of	anc a mail	Sky		200	Wind (range)	Temp(P)
Start 12:00		clear	patchy	overcast	drizzle	shower	4-6 mg/h	760 F
13:00		clear	patchy	overcast	drizzle	shower	7 Mugh	720 5
14:00		clear	patchy	overcast	drizzle	shower	24 mph	700 F
•		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop 14 >00		clear	patchy	overcast	drizzle	shower		

Habitat onsite (circle as applicable): hilltops ridges rock outcrops open soils soil crusts clay soils soil roads Plantago, Castilleja, Pordylanthus, Antirrhinum, nectar sources.

Butterfly Species	(Total)	Hill- topping	Butterfly Species A	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodenia mormo (Mormon Metalmark)	2	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Rcd Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)	I		Picridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	2		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lyczenidae (Hairstreaks)	8				
Allides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor LATEL CHATMAN	Segment # Survey ARCA (7) Date: 10 mar 2016
Comments:		
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may and a second of the second	# 10 m	
	8	
Plant Communities and Habitat Infor	mation: YELSA SANTA, C	HAMISE, RIGHT, BUCKWHOLE
Lines Lines		
Host Plants Present: ρ/Δμ	tago orecta, Cartilleja	exetta
	, , , , , , , , , , , , , , , , , , ,	
31020		
Nectar Plants Present: WEXA CAN	M COLOTTO CHA SULT ALL	
derby 144	ond, captonina, but pu	
20-120-1 - 42-03-110		
☐ Quino Sighting	Date: GPS Locatio	n:
•		
Photographs Taken:	· ·	
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4.	5.	6.
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12.

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Quino Checkerspot General Form

Location	NORTH	OF (MCAS)	Rywurs	Survey Segr	nent Sulvez	AREN(4)
Surveyor	GOEL	CHATMAN	Ų.	Date 10 mar 2016	Survey Week	Number (Z)
Survey Part	ner(s)					
Total Acres		Portion Survey	ved:	Elevat	ion: Max	Min

Time (24 hr)	% Cloud	these spin	Sky	Ole pass	Sept.	Wind (range)	Temp (F)
Start 15: 70	0	clear patchy	overcast	drizzle	shower	2-4 m/h	70° F
16:00	0	clear patchy	overcast	drizzle	shower	2-4mh	68° F
) = I = = = = = = = = = = = = = = = = =	clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
Stop 16:45	0	clear patchy	overcast	drizzle	shower	Zunge	67° E

Habitat onsite (circle as applicable): hilltops, ridges rock outcrops, open soils soil crusts, clay soil old road. Plantago, Castilleja, Ordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill- lopping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		1	Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	1	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	1		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Comments:		2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
₩	COUP PASCHES OF	PLANTINGO NONTH OF
*	mas miramar	RUN CAYS.
**		
		4 444
	ground.	order Total Variety of Casarian Har
Plant Communities and H	abitat Information: CHA	MISE, YERBA SHOTA, PHUS
Host Plants Present:	Plantage erects	Catiller enete
1105t 1 tunto 1 resente	1120119 41615	Carrine ga Chezia
21-011		
-		
Nectar Plants Present:	(MIND MONTHS LATTE	UIA, YERBA SHOWA, BLUE BICKS
		7 0 7
	Deter	GPS Location;
☐ Quino Sighting	Date:	GF5 Location;
	•	
Photographs Taken:		
1.	2.	3.
	5.	6.
4.	8.	9.
7.		
10.	11.	12.

Location SANDCE	TO RIVER SAN VICEN	Date Survey Segment Survey	IRVES AREA(8)
Surveyor alex	CHATMAN	Date Ilmar 2016 Survey	Week Number (2)
Survey Partner(s)		***************************************	
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	thesis.	and an additional districts	Sky		Stern 1	Wind (range)	Temp (F)
Start08:30	HAZY	clear	patchy	overcast	drizzle	shower	1-2 mph	64012
09:00	HAY	clear	patchy	overcast	drizzle	shower	1-2 m/m	650 1=
10:00	0	clear	patchy	overcast	drizzle	shower	2-4 mg/h	700 =
12:00	0	clea	patchy	overcast	drizzle	shower	2-4 mph	70° F
13:00	0	clear	patchy	overcast	drizzle	shower	4-8 uph	710 E
14:00	0	clear	patchy	overcast	drizzle	shower	4-8 ma	72°E
Stop 14:70	2	clear	patchy	overcast	drizzle	shower	4-8 m/L	7101

Habitat onsite (circle as applicable): hilltop, ridges rock outcrops, open soils soil crusts, clay soils, old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, neetar sources.

Butterfly Species		io Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)	3	
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	10	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)	2	
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)	1		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	15	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	3	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		=======================================
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	4		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor Glet CHATMAN Segment # SURVOY ALCA (8) Date: //mal 7016

Comments:	H GOOD H	receta + gwa	NECT SIDE	COULCES	VICOUTE RE.
	7 1000				
- + 4				4.4	
		<u> </u>			
	×				
			77		
Plant Communitie	s and Habitat Info	rmation: - NON -	LATING AD	ASSE + FORB	es Aremo
		SARA DIE	TO RIVER O	CURSO ACE	NS-
		- CHAMISE SAN VICE	- , Ritus , !	BUCKULLERT	NEAR
		5AN WICK	oute es.		
		, , , , , , , , , , , , , , , , , , , ,	7) / "		
Host Plants Prese	nt: PlanA	ngo erecta +	Castilleia	Exerts	
			-1		
Nectar Plants Pre	sent: Copta	Ala Blue diels	, La theni	n /	
☐ Quino Sighting	<u> </u>	Date:	GPS Location	on:	
Photographs Taker	1;				
1.		2.		3.	_
4.		5.		6.	
7-		8.		9.	
10.		11.		12.	

Location	N.W. MIRAMAR RD + I88	Survey Segment Surve	3 AREA J
Surveyor	OREL CHATMAN	Date 13 mar 2016 Survey Wee	Number (3)
Survey Par	rtner(s) THE POWERS		
Total Acre	es: Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	(Neth Super	Sky	na de	Comp. 192	"Wind (range)	Temp (F)
Start 09:30	70%	clear patchy	overcast	drizzle	shower	1-2 mpc	630 F
10:00	0	clear patchy	overcast	drizzle	shower	1-2 mph	66°F
11:00	0	clear patchy	overcast	drizzle	shower	1-2 mpa	68° F
12:00	-6-	elear patchy	overcast	drizzle	shower	1-2 m/a	68°F
13:00	0	clear patchy	overcast	drizzle	shower	4-6 mgh	68° F
		clear patchy	overcast	drizzle	shower		
Stop /3:45		clear patchy	overcast	drizzle	shower	4-6 m/a	68° F

Habitat onsite (circle as applicable) hilltops ridges rock outcrops open soils foil crusts clay soils old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, hectar sources

Butterfly Species	Carl Market Contract	ip Hill-	Butterfly Species	Count. (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)	5	
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	3	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)	1	
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	4	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)	1	
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)	2		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)	1	
Erynnis tristis (Mournful Duskywing)			OTHERS: Californis sister	1	
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)	6				
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor CREV CURTMAN	Segment # SURVEY AREN	Date: 13 mm 2016
Comments:		
10.0		
4744		
	Α	
11.		
TY I'V AT F		
Plant Communities and Habitat Inform	iadon:	
· ·		
Host Plants Present: Plantage	erecta, Castilleja exalta	
Host Haitis Heseitt. Vianta (8	ereas, castricia conta	
,		
	The state of the s	
Nectar Plants Present: YERBA SAL	M, ray PTHONHA, BULLE DICK	S, LASINENIA, ENCELIA
☐ Quino Sighting I	Date: GPS Locatio	n:
Photographs Taken:		
1.	2.	3.
4.	5.	6.
7.	8.	9.
10.	11.	12.

Location NEAR (MCAS)	CEMETERY	Survey Segmen	SORVET AREA (Z)
Surveyor GREV CHATM		Date 13 mar Zor6 St	urvey Week Number (3)
Survey Partner(s) THE Po	were's		PARTIES
	Surveyed:	Elevation	: Max Min

Time (24 hr) 4% Cloud	YAME	Tapes County	Sky		Stern Stern	Wind (range)	Temp:(F)
Start 14:15	clean	patchy	overcast	drizzle	shower	4-6 mpa	68°F
15:00	clean	patchy	overcast	drizzle	shower	4-6 uha	690 E
16:00	Clear	patchy	overcast	drizzle	shower	4-6 mp	67° E
	clear	patchy	overcast	drizzle	shower		
	clear	patchy	overcast	drizzle	shower		
	clear	patchy	overcast	drizzle	shower		
Stop 16:45	clear	patchy	overcast	drizzle	shower	4-6 m/a	66° 12

Habitat onsite (circle as applicable): hilltops ridges ock outcrops open soils oil cruss, clay soils, old roads Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species		 Butterfly Species and		Hill- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)	1	
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Rcd Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	6	
Danaus gilippus (Queen)		 Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)	1	
Hylephila phyleus (Fiery Skipper)	2	Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)				
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)				
Glaucopsyche lygdanius (Southern Blue)				
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

Comments:						
*	GOOD HAD	TAT IN O	in open ar	S.E.	OF MCE	15 COMOTORY
	Plantago +	Castilleia	in open ar	eg on	bluff to	<i>'</i>
			350			
						T
			<u>H</u>			
		0				
Plant Communities and l	Tabitat Inform	ation.				
Plant Communities and	abitat inform	auon:	-			
¥ 34 + 12						(4)
Host Plants Present:	01.1.	as at a	Castilleig ex	arts		
Host Plants Present:	Plantago	treda,	astitle g ex	9114		
· · · · · · · · · · · · · · · · · · ·						
		-				
	A / /	1 7	0/ //	_		
Nectar Plants Present:	Corptantha,	Lasthenia	Blue dicks,	<u> </u>		
Quino Sighting	D	ate:	GPS Locat	ion:		
122	•					
Photographs Taken:						
1.		2.		3.		
		5.		6.		
4.		8.		9.		
7.				12.		
10.		11.				

Location NEAR	SOUTHER TREVENIENT	PLANT	Survey Segment Smar 2016 Su	SURVEY	AREA	(2)
	6 CHARMON	Date /	SMAR ZOIG SU	rvey Week	Number]	(3)
Survey Partner(s)	THE POWER'S				· ·	
Total Acres:	Portion Surveyed:		Elevation:	Max	Min	

Time (24 hr) ***	* % Cloud	There was a	Sky	e la maio	Con Cont	Wind (range)	Temp (F)
Start 09:15	A	clear patchy	overcast	drizzle	shower	1-2 mpc	65°F
10:00	0	clear patchy	overcast	drizzle	shower	1-2 mg/c	69° E
11:00	0	clear patchy	overcast	drizzle	shower	2-3 mg	73°F
		clear patchy	overcast	drizzle	shower	,	
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		14
Stop //:30	0	ctear patchy	overcast	drizzle	shower	Z-Yasa	75°F

Habitat onsite (circle as applicable): hilltops, ridges rock outcrops, open soils, soil crusts, glay soils old roads Plantago Castillejo, Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count. (Total)	HIII- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	6	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)	3	
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)	2		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	3		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Moumful Duskywing)			OTHERS: Cal Agenia sitter	T	
Erynnis propertius (Propertius Duskywing)			OTHERS: Cal fornia sister (Adelpha bredavii ralita	INCG.	
Ochlodes agricola (Rural Skipper)				1	
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)	Z				
Icarcia acmon (Acmon Blue)		4			
Celastrina ladon (Echo Blue)					

Comments:		
omments:		
		u. v.
	2)	
9		
ant Communities and J	Habitat Information: * BLACE	& SACE + HOLY-LEMIED SCRUB
		- 0
Lost Plants Present		
lost Plants Present:		
lost Plants Present:	Plantago ercota in Castilleja execta a	
lost Plants Present:		
lost Plants Present:		
Iost Plants Present:		
Host Plants Present:	Plantago erecta in Castilleja execta a	opening's on bluffs Iso sprinkland in
	Plantago erecta in Castilleja execta a	opening's on bluffs Iso sprinkland in
	Plantago erecta in Castilleja execta a	opening's on bluffs Iso sprinkland in
	Plantago erecta in Castilleja execta a	
	Plantago erecta in Castilleja execta a	opening's on bluffs Iso sprinkland in
Vectar Plants Present:	Plantago erccta in Castilleja execta a Lasthenia yerra span survid menseera.	opening's on bluffs Iso sprinkland in A, conformatha, But - DICKS,
lectar Plants Present:	Plantago ercota in Castilleja execta a Lasthenia yella span survet menseera.	opening's on bluffs Iso sprinkland in
ectar Plants Present:	Plantago erccta in Castilleja execta a Lasthenia yerra span survid menseera.	opening's on bluffs Iso sprinkland in A, conformatha, But - DICKS,
lectar Plants Present: Quino Sighting Photographs Taken:	Plantago erceta in Castilleja exacta a Lasthenia jyella spani survet mentera. Date:	opening's on bluffs Iso sprinklowl in A, cayprometha, But DUKS, GPS Location:
Vectar Plants Present: Quino Sighting Photographs Taken:	Plantago ercota in Castilleja execta a Lasthenia jyella spani survet menseera. Date:	opening's on bluffs Iso sprinkled in A, ceypthattha, But -bucks, GPS Location:
Host Plants Present: Nectar Plants Present: Quino Sighting Photographs Taken: 1. 4. 7.	Plantago erceta in Castilleja exacta a Lasthenia jyella spani survet mentera. Date:	opening's on bluffs Iso sprinklowl in A, cayprometha, But DUKS, GPS Location:

Location	MISSIM	well RD.+	RASIS TOWER	Survey Segme	nt SURVE	ARCA (8)
Surveyor	aper	CHAMMAN	Date	15 mar 2016 S	urvey Wee	k Number (3)
Survey Pa	rtner(s)					
Total Acre	es:	Portion Surveyed:		Elevation	ı: Max	Min

Time (24 hr)	% Cloud	these coups	Sky		Can	Wind (range)	Temp (F)
Start /2:30	9	clear patchy	overcast	drizzle	shower	Z-4 mph	740 E
13:00	0	cleary patchy	overcast	drizzle	shower	Z-Magn	7602
14:00	5	clean patchy	overcast	drizzle	shower	4-6 mgh	7802
14:50	-	clear patchy	overcast	drizzle	shower	464	70° F
		clear patchy	overcast	drizzle	shower		
15:00-		clear patchy	overcast	drizzle	shower		
Stop Stop	0	clear) patchy	overcast	drizzle	shower	4-6 mph	78°F

Habitat onsite (circle as applicable) hillton ridges ook outcrops open soils soil crusts clay soils old roads Plantago Castilleja Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	Count (Total)	φ. Hill- topping	Butterfly Species	Count (Total)	HIII- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		1	Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	15	
Basilarchia lorguini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	3		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	1	
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		V
Vanessa cardui (Painted Lady)			Picridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	9	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)	5		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)	2		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia aemon (Acmon Blue)	1				
Celastrina ladon (Echo Blue)	1				

Surveyor GREG CHATMAN Segment # SURVEY AREA (8) Date: 15 MAR 2016

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Plant Communitie	es and Hal	oitat Informat	ion:	CHran	use.	Pin	· C ·	sm_	VIA. B	rece	can	WT.
Turit Community				CHERT		1017	/					10
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II. at Diants Dragge		N 1		-1-		<u> </u>	L-11.		- O. C. A. J.			
Host Plants Prese	ent:	Planteg	, en	ects	+ 0	Casi	tille	ja	exel	/ z		
Host Plants Prese	ent:	Plantey	, en	ects	+ 0	Cus	hille	js	exel	/ z		
Host Plants Prese	ent:	Plantage	, en	ects	+ 0	Cusi	hille	js	Cx-e/	1/2		
Host Plants Prese	ent:	PlanAzy	en	ects	+ 0	Casi	hille	js	exel	tz.		
Host Plants Prese	ent:	Planteg	, <i>e</i> n	ectz	+ 0	Casi	hille	js	ex-e/	ta		
Host Plants Prese	ent:	Plantey	, en	ects	+ 0	Cus	hille	js	ex-e/	12		
Host Plants Prese	ent:											
į.											W.S.	
		Plantage									w//6)	
											WS.	
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Nectar Plants Pre	esent:	Lashvenio	5 , 6		etha ,	31	i42-1				W6)	
Nectar Plants Pre	esent:		5 , 6		etha ,		i42-1				WS)	
Nectar Plants Pro	esent:	Lashvenio	5 , 6		etha ,	31	i42-1				.46	
Nectar Plants Pre	esent:	La sheenie Dat	5		etha ,	31	tion:	deck			.46	
Nectar Plants Pre	esent:	La sheenie Dat	5 , 6		etha ,	31	tion:	<i>deck</i> 3∙			W6)	
Host Plants Prese	esent:	La sheenie Dat	5		etha ,	31	tion:	deck			wes.	
Nectar Plants Pre Quino Sighting	esent:	La sharaine Dat	6 / C		etha ,	31	tion:	<i>deck</i> 3∙			W6)	

Location SANDIEN	PINER	SAN VICENTE	RES		Survey Segr	nent Sulv	er AREA (8	?)
Surveyor _ Car	Cunt	must	/	_ Date	16 mar 2016	Survey We	ek Number (3)
Survey Partner(s) _								- 10
Total Acres:	Portion	n Surveyed:			Elevat	ion: Max	Min	

Time (24 hr)	% Cloud	These topic of	Sky	1906	Son.	Wind (range)	Temp (F)
Start/0:30	0	clean patchy	overcast	drizzle	shower	1-2 mg/h	7100
11:00	ے۔	clear patchy	overcast	drizzle	shower	1-2 4/4	
12:00	2	clear patchy	overcast	drizzle	shower	2-3 mlh	
13:00	0	clear patchy	overcast	drizzle	shower	Zyap	
14:00	D	clear patchy	overcast	drizzle	shower	1-2 4K	
15.00	0	clear patchy	overcast	drizzle	shower	1-2 mph	
Stop 16:45	0	clear patchy	overcast	drizzle	shower	2-3 a/h	

Habitat onsite (circle as applicable) hillross ridges, ock outcrops open soil soil crusts, clay soil old roads Plantago, Castilleja Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species		Hill-	Butterfly Species	Count (Total)	HIII- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	(4,5,44)	NAME OF THE
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	20	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		-
Vanessa annabella (West Coast Lady)	1		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		1 (
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	20	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	6	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	4		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			A Dointe culdred		
Ochlodes agricola (Rural Skipper)			Mathalis iole)		
Lycaenidae (Hairstreaks)			(NATED TO		
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)			*		
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)	2				
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)				-	-

omments:		91 552	0		01	MICOL	MANAGAN
	# FUR	NO FO	PLANTA	Ho	PATCHGS	mone	THEOLOGY
							Moureaux
	NO NO	Qui	vo vos	DRUCE			
		-					
		-					
					130		
				D. Sarah			-
lant Communities and	Habitat Info	ormation	588	PRI	OR WEE	3	
Uoet Plants Present:	Plans	taca o	recta				
Host Plants Present:	Plan	tago e	recta				
Host Plants Present:	Plan Casti	tago e	recta				
Host Plants Present:	Plan Cast i	tago e llega e	recta				
Host Plants Present:	Plan Casti	laço e	recta				
Host Plants Present:	Plan Casti	lago e llega e	recta				
Host Plants Present:							
Host Plants Present:						D4 20.416	I. Mah. Bluk-
					BUBA SAL	TA, BUW	with Blue-
					BUBA SHU	TA, Buck	with Blue-
					BUBA SML	TA, BUUC	with Blue-
					BUBA SHU	TA, BUW	unton, Blue-
		enia,		2n, 0			WEK BUE-
Nectar Plants Present:				2n, 0	BPS Location		untok j Blue-
Nectar Plants Present:		enia,		2n, 0			unton, Blue-
Nectar Plants Present: □ Quino Sighting		enig ,		2n, 0			unton Blue-
Nectar Plants Present: ☐ Quino Sighting Photographs Taken:		enig ,		2n, 0			with Blue-
Nectar Plants Present: Quino Sighting Photographs Taken:		Date:		2n, 0		ı:	untok j Blue -
Nectar Plants Present:		Quiq ,		2n, 0		n: 3.	unton, Blue-

Location SAW WE	NTE RES. SHIN NOW ANE	Survey Segment Survey Weel Date Zimar Zoic Survey Weel	AREA (8).
Surveyor alec		Date Zlman 2016 Survey Weel	k Number (4)
Survey Partner(s)_		<u> </u>	
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	Gent Carlo	Ský	deli	Some Soul	Wind (range)	Temp (F)
Start 10:00	0	clear patchy	overcast	drizzle	shower	1-2 mph	62°F
10:45	0-	clear patchy	overcast	drizzle	shower	1-3 mpc	640%
11:15	0	clear patchy	overcast	drizzle	shower	4-6 mp	7607
12:30	0	clear patchy	overcast	drizzle	shower	4-6 mp	7602
13:00	0	clear patchy	overcast	drizzle	shower	4-7mp	78°F
14:00	0	clear patchy	overcast	drizzle	shower	6-81x	78°E
Stop 14:30	0	clear patchy	overcast	drizzle	shower	5-7 mp	76°F

Habitat onsite (circle as applicable). hilltops, ridges, ock outcrops open soils of crusts day soils old roads. Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources

Butterfly Species	Count (Total)	i Hill- lopping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)	4.	
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	12	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	1		Papilio eurymedon (Pale Swallowtail)	1	
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Picridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	20+	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	1		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	6		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)		-			
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	2				
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Comments:	,		
Plantego	doing better Ates we	eek ago rain!	
	PT COMING INTO BLOOM		
2	466 Bloom not-		
BLACK SI	HOG ISCOUNTING	***	
W			
Plant Communities and Habi	tat Information:		
Host Plants Present:	Plantago ercita + (estillesa exerta	

		0 1 1 2 1 1 1	
Nectar Plants Present:	ystantus, Lasthenia,	Blue - dulls , Buck wheat	
		GPS Location:	
☐ Quino Sighting	Date:	GPS Location:	
Photographs Taken:			
1.	2.	3.	
4.	5.	6.	(a)
7-	8.	9.	
10.	11.	12.	

Location South	cation Sought Teaming Persons rveyor Like Continue rveyor Partner(s) The Powers's	Survey Segment Sulue	2 AREU (4)
Surveyor Gue	2 CONFRUM	Date 22 mar 2016 Survey Weel	Number (4)
Survey Partner(s)	THE POWER'S		
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	"% Cloud	· (talk support	Sky	Owner	Sent and	Wind (range)	Temp (F)
Start /2:00	25 %	clear patchy	overcast	drizzle	shower	6-10 mgs	63° F
13:00	20%	clear patch	overcast	drizzle	shower	6-10 up	65° F
14:00	15%	clear patchy	overcast	drizzle	shower	5-7 up	BTF
15:00	15%	clear patchy	overcast	drizzle	shower	4-8 up	67°E
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
Stop 16:00	10%	clear patchy	overcast	drizzle	shower	4-8 mp	65°F

Habitat onsite (circle as applicable): hilltops, ridges rock outcrops, open soils soil crusts clay soil old roads Plantago. Castilleja Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill-	Butterfly Species	Count	Hill- topping
Nymphalidae (Brush Footed Butterflies)	,		Leptotes marina (Marine Blue)	(40144)	() COPPING
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		-
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		1	Apodemia mormo (Mormon Metalmark)	5	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	7_		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Rcd Admiral)]	Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	3		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Calternia Sister	2	
Ochlodes agricola (Rural Skipper)			Calternia Sister (Adelpha bredowii californ	(2)	
Lycaenidae (Hairstreaks)			The second secon		
Allides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)	1				
Icarcia acmon (Acmon Blue)				-	
Celastrina ladon (Echo Blue)			4-141		

Comments:	,		
# Plant	tago doing better.	Afre 14st week	rain!
	tago doing better.	4 61	caset
₩ C454	Mejs nore obvi	ous with Moons	перина.
		- X	
			4 7.00
1			
Plant Communities and Hab	itat Information:		
Mil Communico una 1245			-
1			
		2/11	
Host Plants Present:	Plantago erecta	* Carhlleja ex	eta
			- H
Z-11			
N. Di i D.	0 1 6 1 6	2/ 1/	
Nectar Plants Present:	Copplantes, Lasther	nig, Blue-dicks,	GOLBA SHUMA
			-
☐ Quino Sighting	Date:	GPS Location	:
7 Ammo orbitang		OI O LOURIUM	
Photographs Taken:	•		
	9		٧.
1.	2,		3.
1. 4.	5.		6.
1.			

Location MISSION GROS MAER Surveyor GRAST CHARMAN		Survey Segment Survey	ARCA (7)
Surveyor LAND	CHAMAN	Date 23 MAR 16 Survey Week	Number (4)
Survey Partner(s)			C 12
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	e mor	zijic	Sky	tieks.	Some Some	Wind (range)	Temp (F)
Start /0:00	0	Clea		overcast			1-2 m/h	630
17:00	0	(Clear	patchy	overcast	drizzle	shower	1-2mp	680
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop 12:00	0	clear		overcast	drizzle	shower	Zylyk	730

Habitat onsite (circle as applicable): hilltops ridges rock outcrops open soils soil crusts clay soils old roads, Plantago, Castilley, Cordylanthus, Antirrhinum, sectar sources.

Butterfly Species	Count Hill- (Total) toppin	Butterfly Species all	Count (Total)	HIII- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)	10+	
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	2	Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangelip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	20t	
Dandus gilippus (Queen)		Pieris rapae (Cabbage White)		-
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)	10+	Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	4	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS:	#1 F3/F	
Erynnis propertius (Propertius Duskywing)				
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustimus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak) Glaucopsyche lygdamus (Southern Blue)				
Icarcia acmon (Acmon Blue)			-	
Celastrina ladon (Echo Blue)				

omments:	Plantago + Castilleja	in ofenage mount	nun 1/1
	Plantago & Castilleza		
		!	
			-
	V		
		-	
	s and Habitat Information:		
ant Communities	and Habitat Information.		
		2/"	
lost Plants Preser	it: Plantago exects t	Castilleja exets	
			1 1 21 1 4
Jectar Plants Pres	sent: Ladhenis , Encelia	, Copptantes, Bucker	sheet , Blue-duks
Vectar Plants Pres	ient: Lachenis (Encelia	, Coyptantes, Bucker	wheat, Blue-duks
Vectar Plants Pres	ent: Ladhenis 1 Encelia	, Cosptantes, Bucker	sheet , Blue-duks
Nectar Plants Pres			sheet , Blue-duks
	N. T. S.	GPS Location:	sheet, Blue-decks
] Quino Sighting	Date:		sheet Blue-ducks
] Quino Sighting Photographs Taken	Date:	GPS Location:	
☐ Quino Sighting Photographs Taken	Date:		
Nectar Plants Pres Quino Sighting Photographs Taken 1. 4.	Date:	GPS Location:	

Location NORTH OF MERS RULLWAYS	Survey Segment OCB survey AREA (4)
Surveyor Was Cultural	Survey Segment OCB survey ALEN (4) Date 02 FEB 2016 Survey Week Number (1)
Survey Partner(s)	
Total Acres: 78 Portion Surveyed:	Elevation: Max 400 4. Min 2804.

Time (24 hr)	% Cloud	(negli ut.	Sky	100	22 00	Wind (range)	Femp:(F)
Start 09:30		clear patchy	overcast	drizzle	shower	1-2 mph	70° F
10:00		clear patchy	overcast	drizzle	shower	1-2 mm	72012
11:00		clear patchy	overcast	drizzle	shower	2-4 mgh	75°F
12:00		clear patchy	overcast	drizzle	shower	24 ngs	78° F
13:00		clear patchy	overcast	drizzle	shower	244	78°F
14:00		clear patchy	overcast	drizzle	shower	3-5 nn	TTR
Stop 15:30		clear patchy	overcast	drizzle	shower	3-5 npm	73°F

Habitat onsite (circle as applicable): hilltons, ridges, bock outcrops, open soils, soil crusts, clay soils old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count 1		Count (Total)	
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)	i	Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)	2	
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)	5	
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	ASSA .	Papilio eurymedon (Pale Swallowtail)	BRE	
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)	•	Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Picridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	10	-
Dangus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	2	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	3	Coenonympha californica (Common Califor Ringlet)	nia	
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)				
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)				
Glaucopsyche lygdamus (Southern Blue)	5			
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

Comments:		
X	GOOD PATCHES OF	PLANTAGO MORTH WEST OF
	MCAS MIRAMAR	
*	LOTS OF PLANTAGO	IN OPEN ARENS
A .		
	-	**
		£ green
V 223		
,	- W	
Plant Communities and Habit	at Information: CHMMSE	RHUS, BUCKWHELT , RHAMMUS.
	DEBRUEB	RHUS, BUCKWHENT (RHAMMUS,
Host Plants Present:	Plantago erecta	, Cactilleja exelta
		7
3		(e
	i.	
Nectar Plants Present:	4	+ The County To The County
Nectar Flants Fresent:	RYPTANTHA, GERBAT	MUTA, WLAFIBAS, BLUE DICKS.
☐ Quino Sighting	Date:	GPS Location:
	•	
Photographs Taken:		
1,	2.	3.
4.	5⋅	6.
7.	8.	9.
10.	11.	12.

Ouino	Checkerspot	General	Form
A mirro	CHCCITCI SPOT	CICILCI CL	T 0 1 10

Location	SAN DIEZO RILE	L SAN VICENT	RES.	_ Survey Segn	nent <u>QC</u>	Supres AT	20A(8)
Surveyor	LART CHARM		Date	03 mare 2016	Survey W	eek Number	$\Delta \Omega^{\prime}$
Survey Pa	rtner(s)						
Total Acre	es: 49 Portio	n Surveyed:		Elevat	ion: Max	880 A Min	200 44

Time (24 hr) *	% Cloud	- Harry and	Sky			* Wind (range)	Temp;(F)
Start 09:00	8	ctear patchy	overcast	drizzle	shower	Z-March	670
10:00	0	clear patchy	overcast	drizzle	shower	24 mp	680
11:00	0	clear patchy	overcast	drizzle	shower	7-Magn	720
12:00	8	clear patchy	overcast	drizzle	shower	Zefork	740
13:00	0	clear patchy	overcast	drizzle	shower	4-6 mg	730
16:00	0	clear patchy	overcast	drizzle	shower	4-bush	70°
Stop /7:00	10	clear patchy	overcast	drizzle	shower	24 mple	680

Habitat onsite (circle as applicable): hilltons, ridges rock outcrops open soils soil crusts, clay soils old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources

Butterfly Species	Count Hill-	Butterfly Species	Count E (Total) top
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)	
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)	
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)	
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)	
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Bluc)	
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)	
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)	5
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)	
Junonia coenia (Common Buckeye)	2	Papilio eurymedon (Pale Swallowtail)	2
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)	
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)	
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)	
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)	
Danaidae		Anthocharis sara (Sara's Orangetip)	15
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)	
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)	
Hesperidae		Colias eurytheme (Orange Sulphur)	
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)	
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)	
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)	
Erynnis funeralis (Funereal Duskywing)		Coenonympha californica (Common California Ringlet)	
Erynnis tristis (Mournful Duskywing)		OTHERS:	
Erynnis propertius (Propertius Duskywing)			
Ochlodes agricola (Rural Skipper)			
Lycaenidae (Hairstreaks)			
Allides halesus (Great Purple Hairstreak)			
Incisalia augustinus (Western Brown Elfin)			
Callophrys perplexa (Perplexing Hairstreak)			
Strymon melinus (Gray Hairstreak)			
Glaucopsyche lygdamus (Southern Blue)	6		
Icarcia acmon (Acmon Blue)			
Celastrina ladon (Echo Blue)			

Comments:		
¥ 0000	PATCHES OF PLANTAG	O UEST OF
SAN V	ICENTE RESERVOIR.	
•		
* SMAZ	HAD THAT	SATU DIEVO RIVER
POOR	HADMAT	
		7, 3- 3-
	18	
2.		
	*	
Plant Communities and Habitat Inforn	nation: CHAMUSE, BUCKU	HEAT, YELBA SANTA,
		, ,
11		10
74	CRYPTO WMIC SOILS	W/ PUNTACO
APAC II		
Host Plants Present:		
Plan	tago erceta	
1		
-		
Nectar Plants Present:	WITH LEABA SOUTH	BUT NICKS
City //	nother, yerba south	oue pices
		7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
☐ Quino Sighting ☐	ate: GPS Location	•
D Quino orginang	die. Giblocation	-
•		
Photographs Taken:		
1.	2.	3.
4.	5.	6.
7.	8.	9.
10.	11.	12,

Quino	Checkers	pot Gener	al Form
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Adult Survey

Location SE MIRAMAR RS & ISOS infersed	Date of man 2016 Survey Week Number (1)
Surveyor GABL CHATMINI	Date 04 mas 2016 Survey Week Number (1)
Survey Partner(s)	
Total Acres: 61 Portion Surveyed:	Elevation: Max 400 4 Min 3904.

Time (24 hr)	"% Cloud		and the second	Sky	. See		Wind (range)	Temp (F)
Start 09:30	6	clear	patchy	overcast	drizzle	shower	Z-4 mpl	66°F
10:00	0	Clear	patchy	overcast	drizzle	shower	24 mx	67° F
11:00	0	clear	patchy	overcast	drizzle	shower	Zuja	68°F
		clear	patchy	overcast	drizzle	shower		7.
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop //: 30	0	clear	patchy	overcast	drizzle	shower	Zelage	69°F

Habitat onsite (circle as applicable): hilltops, ridges, ock outcrops, open soils soil crusts clay soils old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)		Butterfly Species 1		Hill- topping
Nymphalidae (Brush Footed Butterflies)	1510-151	Pitta Authora Mana	Leptotes marina (Marine Blue)		IIII III III III III III III III III I
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Wostern Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	3	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)	1	
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	2		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)			8		
Glaucopsyche lygdamus (Southern Blue)	3				
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

WINETED ARCH

Surveyor and CHATMAN Segment # SURVEY ARCA (3)(5) Date: 04 MAR 2016

Comments:		
A GOOD	HABITAT EXST OF MU	25EM - SEVERAL
AREA	HABITAT EXST OF MUY	DEN APENS
	· · · · · · · · · · · · · · · · · · ·	
	160	
- E	25	
	1	
Plant Communities and Habitat Inform	nation: Olympic Little	CAUTH PHUS
	Purcus of general	SANTA, RHUS, EERWEEN, ENCELIA
	BUCKWITE IT, DE	EERWEST, EWILLIA

Host Plants Present: ρ	antago erecta	
	·	
Nectar Plants Present: 4540 A	- SHUTH, CRYPTANTTHAN GO	-DEIBLE BLUE DICKS
	, , , , , , , , , , , , , , , , , , , ,	
☐ Quino Sighting ☐	ate: GPS Location:	
•		
Photographs Taken:		
1,	2.	3.
4.		6.
7:		9.
10.		
10.	11.	12.

Location NW MIRAMAR PD + I 805 intersection	Survey Segment OCB SURVA	3 AREA (2)
Surveyor GREG CHAMMAN	Date 28 Feb 2016 Survey Week Nu	mber (1)
Survey Partner(s) DALE + SUNE POWELL		
Total Acres: 864005 Portion Surveyed:	Elevation: Max 3004	Min <u>320</u> 44

Time (24 fir)	% Cloud	Help dec	Sky			Wind (range)	Femp (F)
Start //:15	0	clear patcl	hy overcast	drizzle	shower	4-6 mpc	70°F
12:00	0	clear patch	ny overcast	drizzle	shower	4-6 uph	70°F
13:00	0	clear patch	ny overcast	drizzle	shower	4-6 mp	70°F
14:00	0	clear patcl	hy overcast	drizzle	shower	4-6 m/L	7107
		clear patcl	hy overcast	drizzle	shower		
		clear patcl	hy overcast	drizzle	shower		
Stop /4:45	0	clear patcl	hy overcast	drizzle	shower	4-6 uph	71°F

Habitat onsite (circle as applicable): hilltops (ridges) rock outcrops open soils soil crusts clay soils fold roads Plantago, Castilleja, Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	Count Hill- (Total) topping	Butterfly Species	Count (Total)	
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)		Coenonympha californica (Common California Ringlet)	1	
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)			0	
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Allides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)				
Glaucopsyche lygdamus (Southern Blue)	3			
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

Comments: Two	PLANTAGO.	NEW TWO(2) HAVE GOOD PATCHES
NOST	They NON- MATTINE	CANGES + FOREES
# DESC	FUT PATCHES OR P	LAMPAGO BUT ISOLATED FROM DEFINATIONS.
		d .
	*	
Plant Communities and H	labitat Information: אָרָס	N-MATIVE ONASSES W/MIKED S SPECIES, COMMON BUCKWHOLF, DEDRUCED
	Citia	mist,
Host Plants Present:	PLUMITAGO EVECTO	CAMIC SOILS WITH PLANDTAGO.
TOST I MING I I ESCHI.	PLANTING STEELS	
	GARROW ; LASTA	and, CRYPTANTHA, BUCELLA, BLUE BICKS
GOLAN	gHEROW ;	
	Date:	GPS Location:
GOLAGA GOLAGA GOLAGA	gHEROW ;	
Quino Sighting Photographs Taken:	Date:	
Quino Sighting Photographs Taken:	Date:	GPS Location:
	Date:	GPS Location:

Location SE MILAMAR NO + I805 interes	tun_ Survey Segment QCB GARROS ANGA (3)
Surveyor CHATMIAN	Date 28 FEB 2014 Survey Week Number (1)
Survey Partner(s) DATE + TUNG POWELL	
Survey Partner(s) Dave + Sund Power Total Acres: 85 Portion Surveyed:	Elevation: Max 3904. Min 2604.

Time (24 hr)	-% Cloud	1424	Sky		-	Wind (range)	Tempr(F)
Start 15:00	5%	clear patchy	overcast	drizzle	shower	4-6 ng/k	70°F
16:00	10%	clear patchy	overcast	drizzle	shower	4-6mp	69°F
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		9
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
Stop 16:45	1500	clear patchy	overcast	drizzle	shower	4-6 w/h	67°F

Habitat onsite (circle as applicable): hilltops ridges rock outcrops open soils soil crusts clay soils old road Plantage, Castilleja, Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	Count Hill- (Total), topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)	1	
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)	2	
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	1	
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	1	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	2	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)				
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)				
Glaucopsyche lygdamus (Southern Blue)	4			
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

☐ Quino Sighting	Date:	GPS Location:	
	•		
Photographs Taken:			
1.	2.	3.	
4.	5.	6.	
7.	8.	9.	
10.	11.	12.	

Location MC MIRAMAR RD. & J-805 Surveyor GREF CHAPMAN	- intersection	Survey Segme	nt QCB BUR	NOT AREA (1)
Surveyor GREG-CHATMAN	Date	29 MAR 2016	Survey Week Nui	mber (1)
Survey Partner(s) DALE + JUNG POWE	re			- 20
Total Acres: 85 Portion Surveyed:	1 ACLE	Elevatio	n: Max 39044	Min 38012

Time (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)
Start 9:10	0	clear	patchy	overcast	drizzle	shower	7-4mm	63° F
		clear	patchy	overcast	drizzle	shower)	
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		W.
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop 10:00	0	clear	patchy	overcast	drizzle	shower	ZMadh	640 F

Habitat onsite (circle as applicable): hilltops, ridges, rock outcrops, open soils, soil crusts, clay soils, old roads, *Plantago*, Castilleja, Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	Count Hill-	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)	2	
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)	0	
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)		
Dangus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)				
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)				
Glaucopsyche lygdamus (Southern Blue)				
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

Nectar Plants Present: CALFTANTHA

☐ Quino Sighting	Date:	GPS Location:	
Photographs Taken:			
1.	2.	3.	
4-	5.	6.	
7-	8.	9.	
10.	11.	12.	

☐ Quino Sighting

Location 56 millaman es + I-805 introscriti	и	Survey Segm	ent <u>QCB survey</u> AREA (3)
Surveyor CHATMAN	Date _	29 FEB 2016	Survey Week Number (1)
Survey Partner(s) AALE + June Power			
Total Acres: Portion Surveyed:		Elevati	on: Max 300 Ft. Min 700 H.

Time (24 hr)	% Cloud	100	Sky		100	Wind (range)	$\operatorname{Temp}_{i}(F)$
Start 10=00	0	clear patchy			shower	46 mgh	69° F
11:00	-0-	clear patchy	overcast	drizzle	shower	4-6 agla	670 F
12:00	-0-	clear patchy	overcast	drizzle	shower	6-8 uph	710 F
13:00	0	clear patchy	overcast	drizzle	shower	68 meh	710 8
14:00	5%	clear patchy	overcast	drizzle	shower	6-8 mph	72°F
		clear patchy	overcast	drizzle	shower		
Stop 14:15	5%	clear patchy	overcast	drizzle	shower	6-8 mph	TOF

Habitat onsite (circle as applicable): hilltops ridges, rock outcrops, open soils oil crusts clay soils oil roads Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources

Butterfly Species	Count Hill-	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)	A CONTRACT OF THE PARTY OF THE	Leptotes marina (Marine Blue)	V	1000
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)	3	
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)	3	
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	5	
Dangus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	3	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)				
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)				
Glaucopsyche lygdamus (Southern Blue)	4			
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

11.

12.

10.

Location VILLAGE NURSON ALEA	Survey Segment QCB survey AREA 456
Surveyor and Cumusal	Date 29 Fag 2016 Survey Week Number (1)
Survey Partner(s) THE POWELL'S	
Total Acres: 77 Portion Surveyed:	Elevation: Max 400 ft Min 400ft

Time (24 hr)	% Cloud	1100	Sky		and the	Wind (range)	Temps(F)
Start 14:30	10%	clear patchy				6-8 mp	728
15:00	10%	clear patchy	overcast	drizzle	shower	6-8 mph	71°F
		clear patchy	overcast	drizzle	shower	197	
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
Stop 15:15	15%	clear patchy	overcast	drizzle	shower	6-8 mgh	71°F

Habitat onsite (circle as applicable): hilltops, ridges, rock outcrops open soils, soil crusto clay soils old road plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species		Hill- topping	Butterfly Species	(Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)	9	
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)	2	
Thessalia leanira (Leanira Checkerspot)	-		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	1	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	2	
Dangus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Comments: _ Nom	INAL HABITA	T ALONE THIS SELTION OF ARENTS -
* Very	LITTLE PLANT	AGO IN OPEN ARENS ALONG-ROAD
		(4)
Plant Communities and Habitat	Information: $\Delta \mathcal{E}$	ERWEED, CHAMISÉ, RHUS, BUCKENTENT
	<i>\/C</i>	DN - NATION GRACES + FORBES
		373
Host Plants Present:	lantago erecta	
	iuni 490 -1-Ci	
Nectar Plants Present:	1 6 -	
Treetar Tamas Tresenti	eftantia jeuce	THA , BLUE DICKS
☐ Quino Sighting	Date:	GPS Location:
Dhata arranh a M. Is		
Photographs Taken:		
1.	2. 5.	3. 6.
7.	8.	9.
10.	11.	12.

Location NORTHMET OF LANDFUL	Survey Segment OCB SURVEY ARE (5)
Surveyor alter CHATMAN	Date Olmar Zoll Survey Week Number (1)
Survey Partner(s) THE POWER'S	
Total Acres: 77 Portion Surveyed:	Elevation: Max 4004 Min 38044

Time (24 hr)	-% Cloud		440	Ský		100 m	Wind (range)	Temp (F)
Start 9:30	0	clear	patchy	overcast	drizzle	shower	Z-4 mpg	68° F
10200	5-	clear) patchy	overcast	drizzle	shower	2-4 msh	700F
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		3)
-		clear	patchy	overcast	drizzle	shower	Y	
		clear	patchy	overcast	drizzle	shower		
Stop //=00	6 (clear) patchy	overcast	drizzle	shower	2-4 uph	74°F

Habitat onsite (circle as applicable): hilltops ridges, tock outcrops open soils soil crusts clay soils old roads Plantago Castilleja, Cordylanthus, Antirrhinum, nectar sources

Butterily Species	Count (Total)	Butterfly Species	(Yound	Hill- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)	ı	
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	3	
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)	1	Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	2	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	3	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)				
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)	1			
Glaucopsyche lygdamus (Southern Blue)	2			
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)			1	

Comments:			
*	PORT TONSTERN LANDON	A ROAD	AT BE GONDA FULL
-18	Kilsengal alle	Marko	ST BE GARAGUA
No	MINAR HABITHT	- ALONG E	ASTERN SIDE OF CANDFILL
			<u> </u>
	*		
Plant Communities and Habitat	Information: Others	ISE PHUS	BUCKLOWERS LEGGRA CANA
	ATNO	200	BUCKWHENT, YELBA SANTA,
	West and		
		-	
		-	
Host Plants Present:	LANDANO erects	- vera 1	ittle amount alon
		roads	ittle amount along
Nectar Plants Present:	JERBA SMITH, CRY	PRANTHA, a	OLDFIELDS, BEGGE PICKS
	, , , , , ,		
☐ Quino Sighting	Date:	GPS Location	
	•		
Photographs Taken:			· · · · · · · · · · · · · · · · · · ·
1.	2.		3.
4.	5.		6.
7.	8.		9.
10.	11.		12.

Location WEST + SOUGH OF LANDFILL	Date 6/MAR 2016 Survey Week Number (1)
Surveyor and Colombia	Date 6/max 2016 Survey Week Number (1)
Survey Partner(s) THE POWER'S	
Total Acres: 70 Portion Surveyed:	Elevation: Max 3904 Min 2604.

Time (24 hr)	% Cloud	THE PARTY OF	and the same	Sky			Wand (range)	Temps(F)
Start //:00	0	Clear	patchy	overcast	drizzle	shower	Z-4 mlh	710 F
12:00	6	clear	patchy	overcast	drizzle	shower	2-4 m/n	74°F
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		0
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop /2-20	8	clear	patchy	overcast	drizzle	shower	2-4 am	76°F

Habitat onsite (circle as applicable): hilltops, ridges, pock outcrops, open soils, soil cruss clay soils old roads Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources

Butterfly Species	Count H	Group (Augustonian Augustonian and Augustonian August (August August August (August August August (August August August August (August August (August August (August August (August August (August August (August (August August (August	(Yount (Yound)) to	
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)	3	
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		24-
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)				
Ochlodes agricola (Rural Skipper)		Phoebus sennae	2	
Lycaenidae (Hairstreaks)		(Cloudless sulphur)		
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)				
Glaucopsyche lygdamus (Southern Blue)	4			
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

Comments:							
Ar-	- 200D F	FAB MA	T AZONEC	WESTERA	1 5106	OF	CAMPFILL
	- OPEN A	RENS	AMED ACCESS	ROADS	KU MH	ADD	5 7 SAFE
	PLANTAGE						
			000				
						_	
<u> </u>							
							Lat 1
Plant Communities and I	labitat Inform	ation:	CHAMISE	, GERBA	- SANTA,	RH	us,
			CHAMISE BUCKUHE	47. DE	PRINTED "		,
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,			
					,		
		10	LATO GAMIC			9/. ~	/
		THE CIG	CADI D. CANVIC	5016	s wir	1941	ago .
	01	,					
Host Plants Present:	Plaw	tago	erecta				
	-						
Nectar Plants Present:	BULED	icks,	CRYPTANTH	A, L1	BTITEDUIG	4, g	ERBA SAWTA
	EN CELI	A					
						_	
				-			
☐ Quino Sighting	D D	ate:	GPS	Location			
Photographs Taken:							
1.		2.			3		
4.		5.			6.		
7.		8.			9.		
10.		11.			12.		

Location NOAL	SOUTHERN TREATMENT	PLANT Survey Segment QCB SURVEY ARCM (7)
Surveyor 40Eb	CHAMMAN	Date Ol mar 2016 Survey Week Number
Survey Partner(s)	THE POWER'S	
Total Acres: 69	Portion Surveyed:	Elevation: Max 3904 Min 2604

Time (24 hr)	% Cloud	of the second	Ský			Wind (range)	Temp (F)
Start / 2:30	15%	clear patchy	overcast	drizzle	shower	4-6 mph	80° F
13:00	15%	clear patchy	overcast	drizzle	shower	4-6 m/h	TPF
14:00	15%	clear patchy	overcast	drizzle	shower	4-6 mm	78°E
		clear patchy	overcast	drizzle	shower		9
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
Stop 15:00	15%	clear patchy	overcast	drizzle	shower	4-6 mph	75%

Habitat onsite (circle as applicable): hilltops ridges rock outcrops open soils soil crusts clay soils old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	
Nymphalidae (Brush Footed Butterflies)		James Labour Re.	Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)	2	
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	3	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		l'	Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	5	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)	131		Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)	\$ D		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	2	ľ	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)	3				
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Date:

<u>5∙</u> 8.

11.

GPS Location:

6.

9.

12.

☐ Quino Sighting

Photographs Taken:

4.

7.

10.

Ouina	Chackers	pot General	Form
Ouno	CHeckers	pot Generai	LOUIN

Location NW. of MCANS purenty	Survey Segment QCD survey ANTA (4)
Surveyor aper chaman	Date Of mar Toll Survey Week Number (1)
Survey Partner(s) The powers	
Total Acres: 78 rue Portion Surveyed:	Elevation: Max 400 H Min 280 H

Time (24 hr)	-% Cloud			Sky		electric series	Wind (range)	$\operatorname{Temp}_i(F)$
Start /6:00	1506			overcast			4-bugh	720 F
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
10-		clear	patchy	overcast	drizzle	shower		11
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop 17:00	150/6	clear	patchy	overcast	drizzle	shower	4-6 ph	69° E

Habitat onsite (circle as applicable): hilltops ridges rock outcrops, open soils soil crusts clay soils oid roads. Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count Hill- (Total) topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	1	
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)		16		
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)				
Glaucopsyche lygdamus (Southern Blue)	2			
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

☐ Quino Sighting	Date:	GPS Location:
-	•	
Photographs Taken:		
1.	2.	3.
4.	5.	6.
7.	8.	9.
10.	11.	12.

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Adult Assessment

1-951-686-1497

Surveyor	Jun Paule	Da Da	te	Site Visit	Numberl
Site Name	That	8	Site Location	111-10	90x 1 V
Total Acres:	Total Acres	Surveyed:	Elevatio	n: Max	Min
Hours Surveyed:	11251				

Time (24hr)		Sky	1.3	Wind (aver*/max)	Temp (F)
1430	clear 10	% cloud cover	hazy	1/3	700
1555	clear S	% cloud cover	hazy	2/4	700
	clear	% cloud cover	hazy	1	300
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	}	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	21 62	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	8	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

Dale A Powell



Lycaenidae (Blues)
spot) Brephidium exilis (Pygmy Blue)
ister) Celastrina ladon echo (Echo Blue)
Everes amyntula (Western Tailed Blue)
Glaucopsyche lygdamus australis (Southern Blue
Hemiargus ceraunus gyas (Edward's Blue)
learcia aemon (Aemon Blue)
Leptotes marina (Marine Blue)
Philotes sonorensis (Sonoran Blue)
shell) Plebejus melissa (Melissa Blue)
Lycaenidae (Hairstreaks)
rspot) Atlides halesus (Great Purple Hairstreak)
Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
Incisalia augustinus (Brown Elfin)
Strymon melinus (Gray Hairstreak)
Papilionidae (Swallowtails)
Papilio eurymedon (Pale Swallowtail)
Papilio rutulus (Western Tiger Swallowtail)
Papilio zelicaon (Anise Swallowtail)
1 aprilo zenedon (Palise owallowali)
Pieridae (Whites and Orangetips)
Anthocharis cethura (Felder's Orangetip)
Anthocharis lanceolata (Grinnell's Marble)
Anthocharis sara (Sara Orangetip)
Artogeia rapae (Cabbage White)
Colias eurytheme (Alfalfa Butterfly)
Colias harfordii (Harford's Sulfur)
Euchloe hyantis lotta (Southern Marble)
Eurema nicippe (Sleepy Orange)
Nathalis iole (Dwarf Yellow)
Pontia protodice (Common White)
Zerene eurydice (California Dogface)
Riodinidae (Metalmarks)
Apodemia mormo virgulti (Behr's Metalmark)
Calephelis wrighti (Wright's Metalmark)
Satyridae (Satyrids)
Coenonympha californica (California Ringlet)
· · · · · · · · · · · · · · · · · · ·

(3)

Quino Checkerspot Survey Form

Adult Assessment

Surveyor	NUG	Pawill		3/10/16	Site Visit	Number 🙏	:2
Site Name	11/14	.5	_ Site	Location _	Mirawa	71	
Total Acres:	Tota	l Acres Surveyed:	:	Elevati	on: Max	Min	
Hours Surveyed	215						

Time (24hr)	-	Sky	1,111	Wind (aver*/max)	Temp (F)
23.2	clear	% cloud cover	hazy	2/4	700
:200	clear	% cloud cover	hazy	- 1 id.	250
1100	ctear/	% cloud cover	hazy	4/7	750
1130	elear	% cloud cover	hazy	4/6	7.0
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph



	Brush Footed Butterflies)	Lycaenidae (Bl	
7.7.7.5.00 (1)	Euphydryas editha quino (Quino Checkerspot)		Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	1 1	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	المستل	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		CALL TO THE PARTY OF THE PARTY
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	4	
	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
- CANC	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		The second secon
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (H	
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum
			(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
\	Vanessa cardui (Painted Lady)		Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)		The state of the s
		B. 92. 11. 66	a He water
	Annual Company of the	Papilionidae (5	
Danaidae (Milk	weed Butterflies)		Papilio eurymedon (Pale Swallowtail) Papilio rutulus (Western Tiger Swallowtail)
	Danaus gilippus (Queen)	4	Papilio zelicaon (Anise Swallowtail)
	Danaus plexippus (Monarch)		Fapino zencaon (Amsc Swanowan)
Hesperidae		Pieridae (Whit	tes and Orangetips)
1 island	Erynnis funeralis (Funeral Dusky-wing)	1 101 1110 (11111	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	_	Anthocharis lanceolata (Grinnell's Marble)
1	Hylephila phyleus (Fiery Skipper)	1: 1	Anthocharis sara (Sara Orangetip)
ا نسن	Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)
			Colias eurytheme (Alfalfa Butterfly)
			Colias harfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
- Walland Walled Street			Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
			Perios sens (Carlos Este
		Riodinidae (M	The state of the s
	T Transaction of the Co Transaction of t		Apodemia mormo virgulti (Behr's Metalmark)
-1000000	44		Calephelis wrighti (Wright's Metalmark)
	1 100	Satyridae (Saty	(chiru
		Sus react (Sac)	Coenonympha californica (California Ringlet)
			Currothe Kinglet)
OTHER:	10.000		
	The state of the s		

Adult Assessment

1-951-686-1497

Surveyor	Jon Pane!	Date Date	Site Visit Number <u>H2</u>
Site Name	Mar 6	Site Location _	Chapment -
Total Acres:	Total Acres Surv	eyed: Elevati	on: Max Min
Hours Surveyed:	1504	a)	

Time (24hr)		Sky	1000 C	Wind (aver*/max)	Temp (F)
1200	⊘lear)	% cloud cover	hazy	5/8	780
1300	etear	% cloud cover	hazy	2)4	730
3.50	etear	% cloud cover	hazy	517	93.42
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	7.50	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite; open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

1) III DIRGIII CICC (I	Brush Footed Butterflies)	Lycaenidae (Blues)
L	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
7.000 Co	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue) Plebejus melissa (Molissa Bluc)
	Nymphalis californica (California Tortoiseshell)	Piebejus menssa (Menssa Blue)
	Phycoides mylitta (Mylitta Crescent)	Transcription of the state of t
	Polygonia satyrus (Satyr Anglewing)	1 (Talestander)
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks) Atlides halesus (Great Purple Hairstreak)
	Thessalia leanira wrighti (Leanira Checkerspot)	Callophyrs perplexa = dumetorum
	Vanessa annabella (West Coast Lady)	(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisatia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
		Baulianidas (Swalloutsile)
- Learn		Papilionidae (Swallowtails) Papilio eurymedon (Pale Swallowtail)
	weed Butterflies)	Papilio eurymedon (Pale Swallowiali) Papilio rutulus (Western Tiger Swallowiali)
	Danaus gilippus (Queen) Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
	Danaus piexippus (Monaicii)	Tapino sencuon (Anise Swanowan)
Hesperidae		Pieridae (Whites and Orangetips)
111	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
	Company of the Compan	Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
	***************************************	Riodinidae (Metalmarks)
***************************************	The way to the way to the way the way to the	Apodemia mormo virgulti (Bchr's Mctalmark)
	A 11127W	Calephelis wrighti (Wright's Metalmark)
		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
OTHER:		

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		1
	فسلا	12

Quino	Checkers	pot Survey	Form
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Adult Assessment

1-951-686-1497

Surveyor	Dun Pamell	Date 3/9/16	_ Site Visit :	Number
Site Name	Map3	Site Location	Miron	2
Total Acres:	Total Acres Surveyed	Elevati	ion: Max	Min
Hours Survey	ed: 45/1			

Time (24hr)		Sky	6	Wind (aver*/max)	Temp (F)
11.10	efeap	% cloud cover	hazy	3/5	250
II 55	clear	% cloud cover	hazy	315	710
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		110-10
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		· · · · · · · · · · · · · · · · · · ·
	clear	% cloud cover	hazy		710-7-0-10119
	clear	% cloud cover	hazy		
•	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources,

Plantago erecta, Plantago patagonica, Castilleta exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

Dale A Powell

p.5

Nymphalidae (I	Brush Footed Butterflies)	Lycaenidae (Blues)
HAC compa	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
######################################	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
=====	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
# F_WW	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
		Papilionidae (Swallowtails)
Danaidae (Milk	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Hesperidae		Pieridae (Whites and Orangetips)
I	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
· · · · · · · · · · · · · · · · · · ·		Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
	The state of the s	Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		Pontia protodice (Common White)
* ***		Zerene ewydice (California Dogface)
ur Viere		Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
OTHER:		
· ·		

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		(ラネ)

Adult Assessment

Surveyor	Dale Pa	ve (/	Date = 101: 4	Site Vișit l	Number _	1+2
Site Name	Mas	5	_ Site Location	MARKER		
Total Acres:	Total	Acres Surveyed:	Elevation	on: Max	Min_	
Hours Surveyed:	2/15/					585

Time (24hr)		Sky	3	Wind (aver*/max)	Temp (F)
79	clear	% cloud cover	hazy		1,51
4 3	clear	% cloud cover	hazy	111	-1
(100)	clear	% cloud cover	hazy	4/ 4	-1: 7
· ·	clear	% cloud cover	hazy		938.4.5
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		**************************************
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		J 124 15 15 15 15 15 15 15 15 15 15 15 15 15
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph



lymphalidae (Brush Footed Butterflies)	Lycaenidae (Blues)	Charles and the second
	Euphydryas editha quino (Quino Checkerspot)		ephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Cei	lastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Eve	eres amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	1 Glo	aucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	He	miargus ceraunus gvas (Edward's Blue)
	(Chalcedon Checkerspot)		
	Euphydryas chalcedona hennei	Ica	rcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
	Junonia coenia (Buckeye)		ototes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		ilotes sonorensis (Sonoran Bluc)
	Nymphalis californica (California Tortoiseshell)	Ple	ebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia saryrus (Satyr Anglewing)		
***************************************	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstre	
*****	Thessalia leanira wrighti (Leanira Checkerspot)	Atl	ides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)		llophyrs perplexa = dumetorum
			(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		risalia augustinus (Brown Elfin)
۲	Vanessa cardui (Painted Lady)	Str	ymon melinus (Gray Hairstreak)
-1	Vanessa virginiensis (Virginia Lady)		
- ALLEGE CO.	9		
		Papilionidae (Swallo	owtails)
Danaidae (Mili	kweed Butterflies)		pilio eurymedon (Pale Swallowtail)
California (1711)	Danaus gilippus (Queen)		pilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		pilio zelicaon (Anise Swallowtail)
	The state of the s		
	2.0		
Hesperidae		Pieridae (Whites and	
	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangeti	
	Heliopetes ericetorum (Great White Skipper)		thocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)		thocharis sara (Sara Orangetip)
Just Hot	Pyrgus albescens (Checkered Skipper)		togeia rapae (Cabbage White)
			olias eurytheme (Alfalfa Butterfly)
			olias harfordii (Harford's Sulfur)
			ichloe hyantis lotta (Southern Marble)
			rema nicippe (Sleepy Orange)
			athalis iole (Dwarf Yellow)
			ontia protodice (Common White)
	The second second second	Ze	rene eurydice (California Dogface)
	A TOTAL TOTA	111 42	come con Cloudies Tuly
		Riodinidae (Metalm	arks)
		1 Ap	nodemia mormo virgulti (Behr's Metalmark)
			alephelis wrighti (Wright's Metalmark)
			12 3 C E - 1 OK E - 1
· · · · · · ·		Satyridae (Satyrids)	
	The state of the s	Co	penonympha californica (California Ringlet)
OTHER.			
OTHER:			
****		and the second second	THE PARTY OF THE P

1-951-686-1497

p.8

Quino Checkerspot Survey Form

Adult Assessment

Surveyor	Dale	Paulsit	Date _	270116	Site Visit l	Number <u>1</u>	+2
Site Name	(/op	6		Location	Mix	11:37	
Total Acres:		otal Acres Sur	veyed:	_ Elevatio		Min	
Hours Surveyed	1: 1'56	<u> 1</u>					

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
17.00	clear	% cloud cover	hazy	1.00	
Cop Outer	clear	% cloud cover	hazy	2/4	3 30
1400	clear	% cloud cover	hazy		8149
*** *** ***	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		20
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		(2)
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta; Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph



Nymohalidae (F	Brush Footed Butterflies)	Lycaenidae (Blues)
- Janpanano (L	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Bluc)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
		(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
102	Vanessa virginiensis (Virginia Lady)	The second secon
		Papilionidae (Swallowtails)
Danaidae (Milk	rweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
11	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Hesperidae		Pieridae (Whites and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	1: Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	1 yrgus aibescens (Checketed Skipper)	Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
	THE STATE OF THE S	Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		200 Cite Car years (Contracting to October)
	AND AND A DESPRESA	Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Motalmark)
	A CONTRACTOR OF THE PARTY OF TH	Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
OTHER:		
	2	The second section of the second section of the second section of the second section of the second section sec
	- 121-121-121-121-121-121-121-121-121-12	

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5		100
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	_	-

Quino Checkerspot Survey Form

Adult Assessment

Surveyor	Del- Pawell	Date 3/10/16	Site Visit	Number
Site Name	5 f 14 2	Site Location	MUL	<u> </u>
Total Acres:	Total Acres Surveyed	Elevati	on: Max	Min
Hours Surveye	ed: 1/25"			

Time (24hr)	X	Sky		Wind (aver*/max)	Temp (F)
14(3)	clear	10 0% cloud cover	hazy	1/2	70
1555	clear	ాయి cloud cover	hazy	2"	V 1
	clear	% cloud cover	hazy	_	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		10/19/19/19/19
	clear	% cloud cover	hazy		- VANAGORA
	clear	% cloud cover	hazy		
CT-1111100-000-000-000-000-000-000-000-00	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources,

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

1-951-686-1497

Mar 16 16 04:49p

Euphydryse seldisa quino (Quino Checkerspot) Adalpha brodamic adifferines (California Sister) Basilarchia lorquini (Lorquin's Admiral) Charidrays gubbi (Cabb's Checkerspot) Euphydrya chalcedona chalcedona (Chalcodon Checkerspot) Euphydrya chalcedona chalcedona (Chalcodon Checkerspot) Euphydrya chalcedona home! (Heine's Checkerspot) Junonia coenia (Buckey) Junonia coenia (Buckey) Nymphalis anique (Mourning Cloak) Phymphalis california (California Totoisestell) Phycoides mylita (Ghylita Crescent) Polygonia subrus (Salvr Anglewing) Speyera califorge (California Totoisestell) Phepoides mylita (California Totoisestell) Phepoides mylitaria (California Logia Pomessa cardul (Pale Swallowata) Papilionides (Western Tiger Swallowata) Papilionides (Western Tiger Swallowata) Papilionides (Western Tiger Swallowata) Papilionides (California Totoisestell) Phephia phyliae (Piery Skipper) Anthocharis cardura (Pale Swallowata) Pomessa cardul (Pale Swallowata) Papilionides (Cali	Nymphalidae (Brush Footed Butterflies)	Lycaenidae (Blues)
Adelpha bredowti californica (California Sister) Bastlarchia forquini (Lorquin S Admiral) Bastlarchia forquini (Lorquin S Admiral) Charidryus gabbii (Gabb's Checkerspot) Euphydryus chalcedona chalcedona (Chalcodon Checkerspot) Euphydryus chalcedona chalcedona (Chalcodon Checkerspot) Euphydryus chalcedona hennet (Henne's Checkerspot) Junonia coenia (Buckeye) Nymphalis californica (California Tortoisesbell) Phycoides mylita (Mylitta Cescent) Phycoides (Mylitta Cescent) Papilionidae (Swallowtail) Phycoides (Mylita Cescent) Papilionidae (Mylita Cescent) Papilionid	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
Charidryus gabbii (Cabb's Checkerspot) Euphydryus chalcedona chalcedona (Chalcodo Checkerspot) Euphydryus chalcedona chalcedona (Chalcodo Checkerspot) Euphydryus chalcedona lamnet (Henne's Checkerspot) Junotia coenia (Buckey) Nymphalis andigor (Mourning Cloak) Phylocale emplita (Mylitta California Tortoiseshell) Phylocale emplita (Mylitta (Mylitta California Tortoiseshell) Phylocale emplita (California Tortoiseshell) Phylocale emplita (California Checkerspot) Vanessa antalonia (Red Admiral) Vanessa antalonia (Red Admiral) Panassa antalonia (Red Admiral) Praessa arabia (Red Admiral) Praessa virginierisis (Virginia Lady) Papilionidae (Svallowtails) Papilionidae (Svallowtails) Papilionidae (Svallowtails) Papilionidae (Mylitta (Mylitta California (Pale Swallowtail)) Papilionidae (Mylitta (Mylitta California (Red Admiral)) Papilionidae (Whites and Orangetips) Anthocharis carea (California (Graed Purple Hairstreak) Anthocharis carea (California (Graed Purple Hairstreak) Papilionidae (Whites and Orangetips) Anthocharis lanceolata (Grinnell's Marble) Anthocharis carea (Sara Orangetip) Anthocharis carea (California (Graed Purple Hairstreak) Papilionidae (Mylitta (Mylitta California Ringlet) Resperta on the first	Adelpha bredowii californica (California Sister)	
Eughydryns chalcedona chalcedona (Chalcedon Checkerspot)		
(Ctaleedon Checkerspot) Euphydyna chaleedona hennet (Henn's Checkerspot) Junonia coenia (Buckeye) Nymphalis californica (California Totoiseshell) Phycoides mylitat (Mylitta Crescent) Phycoides mylitat (Mylitta Crescent) Pologonia advirus (Satyr Anglewing) Spoeyria califopre (California Totoiseshell) Phycoides mylitat (Mylitta Crescent) Pologonia advirus (Satyr Anglewing) Spoeyria califopre (California Totoiseshell) Pressatia learnia varight (Leanira Checkerspot) Vanessa annabella (West Coast Lady) Vanessa anabella (West Coast Lady) Vanessa aradia (Reid Admiral) Vanessa virginiensis (Virginia Lady) Strymon melinus (Gray Hairstreak) Vanessa virginiensis (Virginia Lady) Papilioniidae (Swallowtails) Papilio eurymedon (Pale Swallowtail) Danaus glitipus (Queen) Papilio eurymedon (Pale Swallowtail) Danaus plexippus (Monarch) Papilio rutuhus (Western Tiger Swallowtail) Iesperidae Erymis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Anthocharis ara (Sara Grangetip) Artogeta rapae (Cabbage White) Colias aryfamet (Laft Butterfly) Colias aryfamet (Laft Butterfly) Colias aryfamet (Laft Butterfly) Colias aryfamet (Laft Butterfly) Caliephetis wrighti (Wright's Metalmark) Apodemia mormo virgulit (Behr's Metalmark) Calephetis wrighti (Wright's Metalmark) Calephetis wrighti (Wright's Metalmark)	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
Euchydryas chalcedona hennet (Henne's Checkerspot) Legities marina (Marine Blue)		Hemiargus ceraunus gyas (Edward's Blue)
(Henne's Checkerspot) Janonia coenia (Buckeye) Nymphalis californica (California Tortoiseshell) Phycoides milita (Myitta (Casifornia Tortoiseshell) Poporia cadipper (Callippe Fritillary) Thessalia leannia viriphit (Leannia Checkerspot) Vanessa antalonia (Red Admiral) Vanessa atalania (Red Admiral) Vanessa atalania (Red Admiral) Vanessa virginiensis (Virginia Lady) Vanessa virginiensis (Virginia Lady) Papilionidae (Swallowtails) Papilionidae (Swallowtails) Papilionidae (Swallowtails) Papilionidae (Swallowtail) Papilionidae (Militae (Western Tiger Swallowtail) Papilionidae (Militae (Western Tiger Swallowtail) Papilionidae (Swallowtail) Papilio		
Junonia coenia (Buckeye) Nymphalis antiope (Mourning Cloak) Nymphalis antiope (Mourning Cloak) Nymphalis antiope (Mourning Cloak) Philotes somernasis (Sonoran Blue) Plebejas melissa (Melissa Blue) Polygonia sayrus (Sayr Anglewing) Speyeria collippe (Callippe Ftitillary) Thessalia leantra wrighti (Leanira Checkerspot) Vanessa annabella (West Coast Lady) Vanessa antalania (Red Admiral) Vanessa ardii (Painted Lady) Vanessa avirginiensis (Virginia Lady) Danass virginiensis (Virginia Lady) Danass princensis (Virginia Lady) Danass plexippus (Monarch) Papilionidae (Swallowtails) Papilio rutulus (Western Tiger Swallowtail) Papilio zelicaon (Anise Swallowtail) Hesperidae Pieridae (Whites and Orangetips) Anthocharis centura (Felder's Orangetip) Heliopetes ericetorum (Great White Skipper) Heliopetes ericetorum (Great White Skipper) Heliopetes ericetorum (Great White Skipper) Pyrgus albescens (Checkered Skipper) Anthocharis sara (Sara Orangetip) Anthocharis carried anthocharis carried anthocharis carr		Icarcia acmon (Acmon Blue)
Nymphalis antiope (Mourning Cloak) Nymphalis california California Tortoischeli) Phycoides adifornia California Tortoischeli) Phycoides mytta (Mylita Crescent) Polygonia sanyrus (Satyr Anglewing) Speyeria california Tortoischeli) Plebejas melissa (Melissa Blue) Lycaenidae (Hairstreaks) Thessalia leanira wrighti (Leanira Checkerspot) Vanessa annabella (West Coast Lady) Vanessa antahana (Red Admiral) Vanessa aradui (Painted Lady) Vanessa virginiensis (Virginia Lady) Papilionidae (Swallowtails) Danaidae (Milkweed Butterflies) Papilio rutuhus (Western Tiger Swallowtail) Danaus gilippus (Queen) Papilio rutuhus (Western Tiger Swallowtail) Papilio zelicaon (Anise Swallowtail) Papilio zelicaon (Anise Swallowtail) Heltopetes ericetorum (Great White Skipper) Anthocharis cetura (Felder's Orangetip) Anthocharis sara (Sara Orangetip) Anthocharis sara (Sara Orangetip) Pyrgus albescens (Checkered Skipper) Anthocharis sara (Sara Orangetip) Pyrgus albescens (Checkered Skipper) Anthocharis sara (Sara Orangetip) Colias eurytheme (Alfalfa Butterfly) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Suffur) Eurema institut (Southern Marble) Eurema institut (Southern Marble) Eurema institut (Southern Marble) Eurema institut (California Dogface) Riodinidae (Metalmarks) Apodemia mormo virgutii (Behr's Metalmark) Calaphelis wrighti (Wright's Metalmark) Calephelis wrighti (Wright's Metalmark) Satyridae (Satyrids)		
Nymphalis californica (California Tortoisesheli) Phycoides mylitat (Mylitta Crescent) Polygoints sayrus (Satyr Anglewing) Speyeria calilipne (Calilipne Fritillary) Thessatial centra weight (Leanira Checkerspot) Vanessa annabella (West Coast Lady) Vanessa annabella (West Coast Lady) Vanessa atalania (Red Admiral) Vanessa ardail (Painted Lady) Vanessa virginiensis (Virginia Lady) Danaidae (Milkweed Butterflies) Danais gligptus (Queen) Danais gligptus (Queen) Papilio rutuhus (Western Tiger Swallowtail) Pieridae (Whites and Orangetips) Anthocharis centura (Felder's Orangetip) Anthocharis centura (Felder's Orangetip) Anthocharis tanceolata (Grinneli's Marbte) Heliopetes ericetorum (Great White Skipper) Anthocharis sara (Sara Orangetip) Anthocharis arangetip Artogeia repae (Cablage White) Colias euryfleme (Atfalin Butterfly) Colias harfordii (Harford's Suffur) Eachlote hyvanita (Sutern Warbte) Eurema nicippe (Sleepy Orange) Natalis tole (Dwarf Yellow) Pontia protodice (Common White) Zerene eurydice (California Dogface) Riedinidae (Metalmarks) Apodemia mormo virguti (Behr's Metalmark) Calephetis wrighti (Wright's Metalmark) Calephetis wrighti (Wright's Metalmark)		
Physoides mylitta (Mylitta Crescent) Polygonia saturus (Satyr Anglewing) Speyeria calippe (Callippe (Trilliary) Thessalia leantra wright (Leanira Checkerspot) Vanessa annabella (West Coast Lady) Vanessa atalania (Red Admiral) Vanessa ardia (Painted Lady) Vanessa virginiensis (Virginia Lady) Danaidae (Milkweed Butterflies) Danais gilippus (Queen) Papilionidue (Swallowtails) Danaus plexippus (Monarch) Pieridae (Whites and Orangetips) Anthocharis cardusar (Feiner's Orangetip) Heliopetes ericctorum (Great White Skipper) Pyrgus albescens (Checkered Skipper) Pyrgus albescens (Checkered Skipper) Pyrgus albescens (Checkered Skipper) Riodinidae (Metalmarks) Riodinidae (Metalmarks) Riodinidae (Mathoria orangetip) Riodinidae (Milkweed Butterflies) Pieridae (Whites and Orangetips) Anthocharis card (Feider's Orangetip) Pyrgus albescens (Checkered Skipper) Anthocharis card (Sara Orangetip) Pyrgus albescens (Checkered Skipper) Riodinidae (Mathoris orangetip) Riodinidae (Metalmarks) Riodinidae (Metalmarks) Riodinidae (Metalmarks) Riodinidae (Metalmarks) Calephelis wrighti (Wright's Metalmark)		
Polygonia satyrus (Satyr Anglewing) Speyria collippe (Callippe Fritillary) Lycaenidae (Hairstreaks) Thessala leantra wright (Leanira Checkerspot) Attides halesus (Great Purple Hairstreak) Callophyrs perplexa = dumetorum (Perplexa) dumetorum (Gray Hairstreak) dumetorum (Gray Hairstreak) Papilio angustimus (Brown Elfin) Papilio angustimus (Gray Hairstreak) Papilio angustimus (G		Plebejus melissa (Melissa Blue)
Speyeria callippe (Callippe Fritillary) Lycaenidae (Hairstreaks)		
Thessalia leanira wrighti (Leanira Checkerspot) Vanessa annabella (West Coast Lady) Vanessa annabella (West Coast Lady) Vanessa annabella (Red Admiral) Vanessa cardui (Painted Lady) Vanessa cardui (Painted Lady) Papilionidae (Swallowtails) Danaus gilippus (Queen) Danaus gilippus (Queen) Papilio eurymedon (Pale Swallowtail) Danaus gilippus (Monarch) Papilio zelicaon (Anise Swallowtail) Papilio zelicaon (Anise Swallowtail) Papilio zelicaon (Anise Swallowtail) Papilio puli eurymedon (Pale Swallowtail) Papilio zelicaon (Anise Swallowtail) Papilio zelicaon (Anise Swallowtail) Papilio zelicaon (Anise Swallowtail) Pieridae Pieridae (Whites and Orangetips) Anthocharis cethura (Felder's Orangetip) Anthocharis sara (Sara Grangetip) Pyrgus albescens (Checkered Skipper) Anthocharis sara (Sara Grangetip) Pyrgus albescens (Checkered Skipper) Anthocharis sara (Sara Grangetip) Colias harfordii (Harford's Sulfur) Euchice hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Pontia protodice (Common White) Zerene eurydice (California Dogface) Riodinidae (Metalmarks) Apodemia mormo virgulii (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark) Calephelis wrighti (Wright's Metalmark) Calephelis wrighti (Wright's Metalmark) Calephelis wrighti (Wright's Metalmark)		
Vanessa atalanta (Red Admiral) Vanessa atalanta (Red Admiral) Vanessa cardui (Painted Lady) Vanessa cardui (Painted Lady) Vanessa virginiensis (Virginia Lady) Papilionidae (Swallowtails) Danais gilippus (Queen) Papilio eurymedon (Pale Swallowtail) Danaus gilippus (Queen) Papilio rutulus (Western Tiger Swallowtail) Danaus plexippus (Monarch) Pepilionidae (Whites and Orangetips) Erymnis funeralis (Funeral Dusky-wing) Anthocharis cethura (Felder's Orangetip) Heliopetes ericetorum (Great White Skipper) Anthocharis sara (Sara Orangetip) Pyrgus albescens (Checkered Skipper) Anthocharis sara (Sara Orangetip) Colias eurytheme (Alfalfa Butterfly) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchled Partis fordio (Countom Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Vellow) Ponta protodoce (Comnon White) Zerene eurydice (California Dogface) Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark) Satyridae (Satyrids) Coenonympha californica (California Ringlet)		
Perplexing Hairstreak Vanessa atalama (Red Admiral) Incisalia augustimus (Brown Elfin) Vanessa virginiensis (Virginia Lady) Papilionidae (Swallowtails) Papilionidae (Swallowtails) Papilionidae (Swallowtails) Papilio eurymedon (Pale Swallowtail) Papilio zelicaon (Anise Swallowtail) Anthocharis centura (Felder's Orangetip) Anthocharis centura (Felder's Orangetip) Anthocharis cana (Gara Orangetip) Anthocharis ara (Sara Oran		
Vanessa cardul (Painted Lady) Strymon melinus (Gray Hairstreak)	Vanessa annabella (West Coast Lady)	(Perplexing Hairstreak)
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Danaidae (Milkweed Butterflies) Papilio eurymedon (Pale Swallowtail)	A CONTRACTOR OF THE CONTRACTOR	Panilionidae (Swallowtails)
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Heliopetes ericetorum (Great White Skipper) Anthocharis lanceolata (Grinnell's Marble) Hylephila phyleus (Fiery Skipper) Anthocharis sara (Sata Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Pontia protodice (Common White) Zerene eurydice (California Dogface) Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark) Satyridae (Satyrids) Coenonympha californica (California Ringlet)		
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Pontia protodice (Common White) Zerene eurydice (California Dogface) Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark) Satyridae (Satyrids) Coenonympha californica (California Ringlet)		
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Coenonympha californica (California Ringlet)		
	- 6	
OTHER:		Coenonympha caujornica (California Kinglet)
OTHER:	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AND THE RESERVE OF THE PROPERTY OF THE PROPERT
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	A STATE OF THE STA	A Company of the Comp

Onino	Chec	kerspot	Survey	Form
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Adult Assessment

Surveyor	Dale	Pawell	Date 3 9 16	_ Site Visit Number	(wou)
Site Name	. W	0 6 1	Site Location	Myamor	
Total Acres:	To	tal Acres Surveye	ed: Elevat	ion: Max Min	
Hours Survey	ed: 11/15				8

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
0915	clear)_	% cloud cover	hazy	113	670
11100	clear	% cloud cover	hazy	3/5	700
1100	clear	% cloud cover	hazy		75"
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago execta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph



Nymphalidae (Brush Footed Butterflies)	Lycaepidae (Blues)
Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabh's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
(Chalcedon Checkerspot)	
Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
(Henne's Checkerspot)	
Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
Phycoides mylitta (Mylitta Crescent)	
Polygonia satyrus (Satyr Anglewing)	
Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
Vanessa virginiensis (Virginia Lady)	
A STATE OF THE STA	
	Papilionidae (Swallowtails)
Danaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
Danaus plexippus (Monarch)	(Papilio zelicaon (Anise Swallowtail)
Hesperidae	Pieridae (Whites and Orangetips)
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
Heliopeies ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
V F. Zwo woodbooks (Ottookolod Ditappor)	Colias eurytheme (Alfalfa Butterfly)
The state of the s	Colias harfordii (Harford's Sulfur)
THE STANDARD AND A STANDARD A STANDARD AND A STANDARD AND A STANDARD A STANDARD A STANDARD A STANDARD AND A STANDARD A STANDARD A STANDARD A STANDARD A STAN	Euchloe hyantis lotta (Southern Marble)
	Eurema nicippe (Sleepy Orange)
	Nathalis iole (Dwarf Yellow)
	Pontia protodice (Common White)
A THE STREET AND ADDRESS OF THE PARTY OF THE	Zerene eurydice (California Dogface)
	200 Pro-Can Paris (Carrier 1995)
	Riodinidae (Metalmarks)
	Apodemia mormo virgulti (Behr's Metalmark)
And the second s	Calephelis wrighti (Wright's Metalmark)
We state the state of the state	Satyridae (Satyrids)
12 W - 12	(Coenonympha californica (California Ringlet)
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Quino Checkerspot Survey Form

Adult Assessment

Surveyor	Date Paracil	Date	Site Visit Number
Site Name	Maxe	Site Location	Miramar
Total Acres:	Total Acres Surveyed	: Elevati	on: Max Min
Hours Survey	ed: 451/		

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1130	clèan	% cloud cover	hazy	3/5	<i>7</i> 3 °_
1155	clear	% cloud cover	hazy	275	714
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	2-24	
	clear	% cloud cover	hazy		
***************************************	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph

Mar 16 16 04:52p



Nymphalidae (I	Brush Footed Butterflies)	Lycaenidae (Blues)
7.1	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
S 0W!	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
· · · · · · · · · · · · · · · · · · ·	Euphydryas chalcedona hennei (Henne's Checkerspot)	learcia aemon (Acmon Blue)
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Bluc)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
	and the second second	Papilionidae (Swallowtails)
Danaidae (Mill	kweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Hesperidae		Pieridae (Whites and Orangetips)
11	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
	H - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Colias harfordii (Harford's Sulfur)
		Euchioe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis Iole (Dwarf Yellow)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
	HERE THE LEGISLA	Riodinidae (Metalmarks)
-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		[Apodemia mormo virgulti (Behr's Metalmark)
·		Calephelis wrighti (Wright's Metalmark)
	Water Control of the	Satyridae (Satyrids)
	CONTRACTOR OF THE CONTRACTOR O	Coenonympha californica (California Ringlet)
OTHER:		
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	and the second s	
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Quino Checkerspot Survey Form

Adult Assessment

Surveyor	Jun Parell	Date 3/0/16	Site Visit	Number <u>y</u> (New)
Site Name	Mapl	Site Location _	Mirama	
Total Acres:	Total Acres Survey	red: Elevati	on: Max	Min
Hours Surveyed	1: 1/45/			

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
0915	clear	% cloud cover	hazy	13	67° 70°
1000	clear	% cloud cover	hazy		70°
1100	clean	% cloud cover	hazy	374	ラ らり
	clear	% cloud cover	hazy		104 - 100 - 1
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		en company and
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
2000	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils; hilltops ridges, rock outcrops, soil crusts, clay soils, old roads, nectar, sources,

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

Dale A Powell



DuttorGian)	Lycaenidae (Blues)
iymphalidae (Brush Footed Butterflies) Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
(Chalcedon Checkerspot)	Icarcia aemon (Aemon Blue)
Euphydryas chalcedona hennei	Icarcia acmon (Action Blue)
(Henne's Checkerspot)	Leptotes marina (Marine Blue)
Junonia coenia (Buckeye)	Philotes sonorensis (Sonoran Blue)
Nymphalis antiope (Mourning Cloak)	Plebejus melissa (Melissa Blue)
Nymphalis californica (California Tortoiseshell)	T tebejus menosa (triationa esta)
Phycoides mylitta (Mylitta Crescent)	
Polygonia satyrus (Satyr Anglewing)	Lycaenidae (Hairstreaks)
Speyeria callippe (Callippe Fritillary)	Atlides halesus (Great Purple Hairstreak)
Thessalia leanira wrighti (Leanira Checkerspot)	Callophyrs perplexa = dumetorum
Vanessa annabella (West Coast Lady)	(Perplexing Hairstreak)
Walter (Ded Adecise)	Incisalia augustinus (Brown Elfin)
Vanessa atalanta (Red Admiral) Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
Vanessa cardu (Panted Lady) Vanessa virginiensis (Virginia Lady)	
Vanessa virginiensis (Vilginia Lady)	
. Company of the second of the	Papilionidae (Swatlowtails)
Danaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
Dananae (Mikweed Batternes) Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Danies prestypes (service)	
095.	Pieridae (Whites and Orangetips)
Hesperidae Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
7782	Colias eurytheme (Alfalfa Butterfly)
The state of the s	Colias harfordii (Harford's Sulfur)
	Euchloe hyantis lotta (Southern Marble)
	Eurema nicippe (Sleepy Orange)
	Nathalis iole (Dwarf Yellow)
	Pontia protodice (Common White)
	Zerene eurydice (California Dogface)
	Diadi-ida (Matalagaka)
The second secon	Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark)
A CONTRACTOR OF THE CONTRACTOR	Calephelis wrighti (Wright's Metalmark)
	Satyridae (Satyrids)
	Coenonympha californica (California Ringlet)
OTHER:	
(escale 1	

Adult Assessment

Surveyor	Jun Pamell	Date 3/8/16	Site Visit	Number 2
Site Name	Map 2	Site Location	M	ig the Or
Total Acres:	Total Acres Surveyed	: Elevation	on: Max	Min
Hours Surveyed:	2/4511			

Time (24hr)	3 N	Sky		Wind (aver*/max)	Temp (F)
2401	,clear	% cloud cover	hazy	1/3	65°
1200	çlear	% cloud cover	hazy	3/5	660
1360	ølear,	% cloud cover	hazy	416	660
1:30	clear	% cloud cover	hazy	5/8	2.10
- Carrier	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	127	
4 -4 -4 -4	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
*	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, fidges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecto, Plantago patagonica, Castilleja exseria, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

Dale A Powell

3]

Nymphalidae (Brush Footed Butterflies)	Lycaenidae (Blues)
Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	[1] Glaucopsyche lygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
(Chalcedon Checkerspot)	
Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
(Henne's Checkerspot)	
Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
Phycoides mylitta (Mylitta Crescent)	
Polygonia satyrus (Satyr Anglewing)	- Land County and Coun
Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	. Callophyrs perplexa = dumetorum
	(Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
Vanessa virginiensis (Virginia Lady)	- August - A
	Papilionidae (Swallowtails)
Danaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Hesperidae	Pieridae (Whites and Orangetips)
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
Heliopetes ericetorum (Great White Skipper)	Anthocharis (ethara (Cider's Orangeap) Anthocharis lanceolata (Grinnell's Marble)
Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
Tyrgus unbesteris (Checkered Skipper)	Colias eurytheme (Alfalfa Butterfly)
	Colias harfordii (Harford's Sulfur)
	Euchloe hyantis lotta (Southern Marble)
	Eurema nicippe (Sleepy Orange)
· · · · · · · · · · · · · · · · · · ·	Nathalis iole (Dwarf Yellow)
The state of the s	Pontia protodice (Common White)
The second secon	Zerene eurydice (California Dogface)
100 M	zerone caryance (Canzonna Dograco)
	Riodinidae (Metalmarks)
The situation of the same of t	Apodemia mormo virgulti (Behr's Metalmark)
). (1.10-9/10-20-40-0)	Calephelis wrighti (Wright's Metalmark)
	Satyridae (Satyrids)
	Coenonympha californica (California Ringlet)
TOTAL TOTAL CONTRACTOR OF THE STATE OF THE S	The state of the s
OTHER:	TO CONTRACTOR TO CONTRACTOR AND ADDRESS OF THE CONTRACTOR AND ADDR
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Adult Assessment

Surveyor	Jun Pawell	Date 3/8/16	Site Visit	Number 2
Site Name	Map 3	Site Location	Mir	a Meason
Total Acres:	Total Acres Surveyed	: Elevati	on: Max	Min
Hours Surveyed	1: 2/504			

Time (24hr)		Sky	5	Wind (aver*/max)	Temp (F)
1346	clear	% cloud cover	hazy	6/9	640
1400	eteap	% cloud cover	hazy	4/6	70°
1500	clear	% cloud cover	hazy	2/4	710
1630	clear	% cloud cover	hazy	3/6	620
	clear	% cloud cover	hazy		
J.	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		70
	clear	% cloud cover	hazy	11 - 15 0 - 20 0 45 - 45 - 15 0 20 0 - 11 - 1	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		•

Habitat onsite: open soils, hilltops ridges rock outcrops soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserto, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

Nymphalidae (1	Brush Footed Butterflies)	Lycaenidae (Blues)
· ·	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chaicedona chaicedona (Chaicedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Bluc)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidac (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
		Papilionidae (Swallowtails)
anaidae (Mill	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
lesperidae		Pieridae (Whites and Orangetips)
1	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Ycllow)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
	***************************************	Riodinidae (Metalmarks)
	W. C. Control of the	Apodemia mormo virgulti (Bchr's Metalmark)
	***************************************	Calephelis wrighti (Wright's Metalmark)
		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
		1 Country Marie Caryon near (Carronna ranges)
THER:	The second secon	
	The second secon	
	11- P- Control Printer (12-12)	
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Adult Assessment

Surveyor Dala Parell	Date 3/8/16 Site Visit Number 2
Site Name Mapl	Site Location Microwa 5
Total Acres: Total Acres Surveyed	: Elevation: Max Min
Hours Surveyed: 1'30"	

Time (24hr)		Sky	12	Wind (aver*/max)	Temp (F)
00.5	clear	% cloud cover	hazy	/4	
3 4 4 **	clear	% cloud cover	hazy	1 112	- 67.
1045	clear	% cloud cover	hazy	V L	in e
	clear	% cloud cover	hazy	* * J	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
7/10/	clear	% cloud cover	hazy	La literatura	,,
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources >

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

1-951-686-1497

Mar 16 16 04:55p



ymphalidae (Brush Footed Butterflies)	Lycaenidae (Blues)
Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
(Chalcedon Checkerspot)	
Euphydryas chalcedona hennei	Icarcia aemon (Acmon Blue)
(Henne's Checkerspot)	
Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
Phycoides mylitta (Mylitta Crescent)	
Polygonia satyrus (Satyr Anglewing)	
Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
Vanessa virginiensis (Virginia Lady)	And the second s
, and a second of the second o	
TO STATE OF THE ST	Papilionidae (Swallowtails)
Danaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
pourpe (management)	
Caracidos	Pieridae (Whites and Orangetips)
Hesperidae	Anthocharis cethura (Felder's Orangetip)
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis lanceolata (Grinnell's Marble)
Heliopetes ericetorum (Great White Skipper)	Anthocharis sara (Sara Orangetip)
Hylephila phyleus (Fiery Skipper)	Artogeia rapae (Cabbage White)
Pyrgus albescens (Checkered Skipper)	Colias eurytheme (Alfalfa Butterfly)
· · · · · · · · · · · · · · · · · · ·	Colias harfordii (Harford's Sulfur)
CONTRACTOR OF THE PROPERTY OF	Euchloe hyantis lotta (Southern Marble)
	Eurema nicippe (Sleepy Orange)
	Nathalis iole (Dwarf Yellow)
	Pontia protodice (Common White)
and the second s	Zerene eurydice (California Dogface)
The state of the s	Riodinidae (Metalmarks)
Company of the state of the sta	Apodemia mormo virgulti (Behr's Metalmark)
The state of the s	Calephelis wrighti (Wright's Metalmark)
	Satyridae (Satyrids) Coenonympha californica (California Ringlet)
	Coenonympna cattornica (Camorina Kinglet)
Exercise Control of the Control of t	
OTHER:	
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Adult Assessment

Surveyor	Dale Powell	Date_	3/8/15	Site Visit l	Number <u>2</u>
Site Name	Mara	Site	Location	111	19 19 19 pm
Total Acres:	Total Acres Survey	red:	Elevation	on: Max	Min
Hours Surveyed	: 2'45"				

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1042	clear	% cloud cover	hazy	112	65°
1240	elean	% cloud cover	hazy	35	<u>5</u> &*
560	cleap	% cloud cover	hazy	4/6	550
530	clear	% cloud cover	hazy	5 /2	640
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph



Nymphalidae (B	rush Footed Butterflies)	Lycaenidae (Blues)
*	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilts (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gvas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Bluc)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
-	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
1111 2311	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
		(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
	eximal we do not be not	Papilionidae (Swallowtails)
Danaide - O Fill	wood Duttorflied	Papilio eurymedon (Pale Swallowtail)
Danaidae (Milk	weed Butterflies)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus gilippus (Queen)	Papilio rutidus (Western Tiger Swallowtail) Papilio zelicaon (Anisc Swallowtail)
-1	Danaus plexippus (Monarch)	Papino zencaon (Anisc Swanowian)
Hesperidae		Pieridae (Whites and Orangetips)
Поролин	Erynnis funeralis (Funcral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
i	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	1), gas distinction (checkers of chipper)	Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
	THE WAR THE AMERICAN PROPERTY.	Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
_	A CONTRACTOR OF THE CONTRACTOR	Nathalis iole (Dwarf Yellow)
	The second secon	Pontia protodice (Common White)
		Zerene curydice (California Dogface)
	A THE COLUMN TWO IS NOT THE COLUMN TWO IS NO	Detent turyant (camorina Dogrado)
		Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
	#	Calephelis wrighti (Wright's Metalmark)
min. 1.1.24		Satyridac (Satyrids)
		Coenonympha californica (California Ringlet)
OWITH		
OTHER:		THAT THE TAX TO SERVICE AND THE PROPERTY OF TH
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1-951-686-1497

Quino	Checkerspot Survey	ev Form
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Adult Assessment

Surveyor	Onle Privail	Date 3 2 6	Site Visit Number
Site Name	Maga	Site Location	Wiramar
Total Acres:	Total Acres Surveyed:	Elevati	on: Max Min
Hours Survey	ed: 2/50"		

Time (24hr)	_	Sky		Wind (aver*/max)	Temp (F)
0°4	Clear	% cloud cover	hazy	6/9	670
15.7-5	clear	% cloud cover	hazy	9/6	-70
1 7 7 7	clear	% cloud cover	hazy	-, 7a	14/10
1610	clear	% cloud cover	hazy	2/2	623
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	N=1	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		******

Habitat onsite: open soils, hilltops, ridges rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph

1-951-686-1497



Nymphalidae (Brush Footed Butterflies)	Lycaenidae (Blues)		
Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)		
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)		
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)		
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche tygdamus australis (Southern Blue)		
Euphydryas chalcedona chalcedona	Hemiargus ceraunus gvas (Edward's Bluc)		
(Chalcedon Checkerspot)			
Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)		
(Henne's Checkerspot)			
Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)		
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)		
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)		
Phycoides mylitta (Mylitta Crescent)			
Polygonia satyrus (Satyr Anglewing)			
Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)		
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)		
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)		
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)		
Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)		
Vanessa virginiensis (Virginia Lady)			
	Papilionidae (Swallowtails)		
Danaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swallowtail)		
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)		
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)		
Hesperidae	Picridae (Whites and Orangetips)		
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)		
Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)		
Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)		
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)		
Tyrgus aibescens (Checkeled Skipper)	Colias eurytheme (Alfalfa Butterfly)		
	Colias barfordii (Harford's Sulfur)		
	Euchloe hyantis lotta (Southern Marble)		
A THE PROPERTY OF THE PROPERTY	Eurema nicippe (Sleepy Orange)		
	Nathalis iole (Dwarf Yellow)		
	Pontia protodice (Common White)		
TO THE RESIDENCE OF THE PARTY O	Zerene eurydice (California Dogface)		
AND	zerene euryaice (Camotina Dogiace)		
	Riodinidae (Metalmarks)		
	Apodemia mormo virgulti (Behr's Metalmark)		
	Calephelis wrighti (Wright's Metaimark)		
AND	Satyridae (Satyrids)		
	Coenonympha californica (California Ringlet)		
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Adult Assessment

Surveyor 1	la Paciall	Date 1/9 1/6	Site Visit Number 2
Site Name	Max 4	Site Location	Miramar
Total Acres:	Total Acres Surveyed	: Elevatio	on: Max Min
Hours Surveyed:	3/4511		

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
124.645	clear	% cloud cover	hazy	4/6	710
1200	clear	% cloud cover	hazy	4/6	710
1900	elcar	% cloud cover	hazy	5.7	680
	clear	% cloud cover	hazy	9, 11	/ in
16.00	clear	% cloud cover	hazy	3/4	620
	clear	% cloud cover	hazy		= 3: K
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
1	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources,

Plantago erecta Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph





Nymphalidae	(Brush Footed Butterflies)	Lycaenidae (Blues)
7	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
1	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquin! (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
t .	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
1	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
1	Vanessa virginiensis (Virginia Lady)	
		Papilionidae (Swallowtails)
Danaidae (Milkweed Butterflies)		Papilio eurymedon (Pale Swallowtail)
10071.4000	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
	Distriction processory (2.2000, 100)	
Hesperidae		Pieridae (Whites and Orangetips)
44-74"	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
	a-turo el montrolatro ser desseto herre a se el Montro el Allice	Euchloe hyantis lotta (Southern Marble)
	**************************************	Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		Pontia protodice (Common White)
	e a manufactura de la companya del companya de la companya del companya de la com	Zerene eurydice (California Dogface)
		Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)
		Catepnetis wright (wright s wetainate)
	K-28	Satyridae (Satyrids)
	A STATE OF THE STA	Coenonympha californica (California Ringlet)
	The state of the s	Committee Companies (Committee Edition)
OTHER:	51711 41700 200	
	Mark that the state of the stat	

(3)

Quino Checkerspot Survey Form

Adult Assessment

Surveyor	Jun Prajell	Date - 18/16	_ Site Visit l	Number <u>2</u>
Site Name	Morel	Site Location	Miramo	<i>y</i>
Total Acres:	Total Acres Surveyed	: Elevati	on: Max	Min
Hours Surveyed	: 1/30"			

Time (24hr)	12 tal	Sky		Wind (aver*/max)	Temp (F)
7190	clean	% cloud cover	hazy	2/4	610
1000	clear	% cloud cover	hazy	13	6.5
SYC	clear	% cloud cover	hazy		\$ TO
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
71	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges rock outcrops soil crusts, clay soils, old roads, nectar sources

Plantago ereeta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla..

^{*20} second period, mph



Nymphalidae (E	Brush Footed Butterflies)	Lycaenidae (B	Biues)
	Euphydryas editha guino (Quino Checkerspot)	1111	Brephidium exilis (Pygmy Blue)
10000	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Bluc)
	Basilarchia lorguini (Lorquin's Admiral)		Everes amyntula (Western Tailed Bluc)
	Charidryas gabbii (Gabb's Checkerspot)	111	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		- 41
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Bluc)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (F	
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)		Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)		
	77	5 11 11 /	8. 11. 11.
Danille A (N	Dutterdies	Papilionidae (
Danaidae (Milk	weed Butterflies)		Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	<u> </u>	Papílio zelicaon (Anise Swallowtail)
Hesperidae		Pieridae (Whi	tes and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)	1	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)		Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)
***************************************			Colias eurytheme (Alfalfa Butterfly)
		†	Colias harfordii (Harford's Sulfur)
Y 111 45 + A			Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
	The second secon		Nathalis iole (Dwarf Yellow)
		- Int	Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
· · · · · · · · · · · · · · · · · · ·	100		
~~~~		Riodinidae (M	
		1	Apodemia mormo virgulti (Behr's Metalmark)
- I - Wite			Calephelis wrighti (Wright's Metalmark)
	The second secon		
-		Satyridae (Sat	
		<b></b>	Coenonympha culifornica (California Ringlet)
OTHER:		Y = 100 - 100	
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			The state of the s
m			
			Provide the second seco

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# **Quino Checkerspot Survey Form**

### **Adult Assessment**

Surveyor 5	un Pawell	Date 3/9/16 Site Visi	t Number 7
Site Name	Mapy	Site Location	
Total Acres:	Total Acres Surv	eyed: Elevation: Max _	Min
Hours Surveyed:	2/45/1		

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
12 15	_clear	% cloud cover	hazy	4/6	<b>ブ</b> 10
1300	clear	% cloud cover	hazy	4/6	710
1400	(ইভিন্নী)	% cloud cover	hazy	517	680
1500	clear	% cloud cover	hazy	2/4	ිරිව
1600	clear	% cloud cover	that yo	3/6	670
	clear	% cloud cover	hazy	A.:	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		W
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

-	(Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Bluc)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	III Glaucopsyche lygdamus australis (Southern Blu
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	S as (Caract 3 Diac)
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Bluc)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
1.1	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
		Papilionidae (Swallowtails)
anaidac (Milk	(weed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
esperidae		
111	Erynnis funeralis (Funeral Dusky-wing)	Pieridae (Whites and Orangetips)
0.00	Heliopetes ericetorum (Great White Skipper)	Anthocharis cethura (Felder's Orangetip)
1	Hylephila phyleus (Fiery Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Pyrgus albescens (Checkered Skipper)	Anthocharis sara (Sara Orangetip)
	- Conspect	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)  Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		Zerene euryaice (California Dograce)
		Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		Soturidae (Saturida)
		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
HER:		
	70.00	
		The second secon

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<b>Ouino</b>	Chec	kerspot	Survey	Form
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### **Adult Assessment**

Surveyor	Dale Paniel	Date 3/18/16		Number 3^
Site Name	MAGE 1	Site Location	Min	1000
Total Acres:	Total Acres Surve	eyed: Elevatio	n: Max	Min
Hours Survey	red: <u>"15</u> "			

Time (24hr)	Sky	# 0	Wind (aver*/max)	Temp (F)
9:20	clear % cloud cover	hazy	0/0	6:0
11 00	clear 50% cloud cover	hazy	3/4	70
100	clear 🖖 ) % cloud cover	hazy	3/5	6 19
	clear >> % cloud cover	hazy	5 5	1, 22
t e	clear * % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja-exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph



Nymphalidae (F	Brush Footed Butterflies)	Lycaenidae (Blues)		
	Euphydryas editha quino (Quino Checkerspot)	MI MI Will Brephidium exilis (Pygmy Bluc)		
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)		
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)		
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)		
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Bluc)		
	Euphydryas chalcedona hennei (Henne's Checkerspot)	learcia acmon (Acmon Blue)		
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)		
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)		
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)		
	Phycoides mylitta (Mylitta Crescent)			
	Polygonia satyrus (Satyr Anglewing)			
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)		
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)		
t	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)		
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)		
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)		
	Vanessa virginiensis (Virginia Lady)			
	A CONTRACTOR OF THE CONTRACTOR	Papilionidae (Swallowtails)		
Danaidae (Milk	weed Butterflies)	Papilio eurymedon (Palc Swallowtail)		
	Danaus gilippus (Queen)	, Papilio rutulus (Western Tiger Swallowtail)		
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)		
	X	Pieridae (Whites and Orangetips)		
Hesperidae	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)		
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)		
TII.	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)		
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)		
		Colias eurytheme (Alfalfa Butterfly)		
		Colias harfordii (Harford's Sulfur)		
		Euchloe hyantis lotta (Southern Marble)		
		Eurema nicippe (Sleepy Orange)		
		Nathalis iole (Dwarf Ycllow)		
		Pontia protodice (Common White)		
		Zerene eurydice (California Dogface)		
		Riodinidae (Metalmarks)		
		Apodemia mormo virgulti (Behr's Metalmark)		
		Calephelis wrighti (Wright's Metalmark)		
	TAMES AND ADDRESS OF THE PARTY	Satyridae (Satyrids)		
		Coenonympha californica (California Ringlet)		
	The second secon	1 - Commy of the Kingley		
OTHER:	The state of the s			

# (40)

# **Quino Checkerspot Survey Form**

# **Adult Assessment**

Surveyor	Dale	Parell	Date 3 3 16	Site Visit I	Number <u>3</u>
Site Name	Was	+	_ Site Location	Mica	
Total Acres:	Total	Acres Surveyed	: Elevatio	n: Max	Min
Hours Surveyed:	2130"				

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1111	clear	% cloud cover	hazy	17	in-K
4	clear	% cloud cover	hazy	구 17	-7-5
1.23 av 2.00	clear	% cloud cover	hazy	7/6	4.1
7.4.1.	clear	% cloud cover	hazy	6/17)	100
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph



Nymphalidae (Brush Footed Butterflies)	Lycaenidae (Blues)
Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
Phycoides mylitta (Mylitta Crescent)	
Polygonia satyrus (Satyr Anglewing)	C SINIII III III III III II III II II II II
Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
Vanessa virginiensis (Virginia Lady)	
, , , , , , , , , , , , , , , , , , , ,	Papilionidae (Swallowtails)
Danaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Survey to the second	
Hesperidae	Pieridae (Whites and Orangetips)
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	Colias eurytheme (Alfalfa Butterfly)
	Colias harfordii (Harford's Sulfur)
	Euchloe hyantis lotta (Southern Marble)
	Eurema nicippe (Sleepy Orange)
	Nathalis iole (Dwarf Yellow)
	Pontia protodice (Common White)
	Zerene eurydice (California Dogface)
	Piditi Of the de
	Riodinidae (Metalmarks)  Apodemia mormo virgulti (Bchr's Metalmark)
	Calephelis wrighti (Wright's Metalmark)
	The state of the s
	Satyridae (Satyrids)
an all the control of	Coenonympha californica (California Ringlet)
OTHER:	J
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uino Checkerspot Survey	Form	ensus graft ( tapas ) ingent and	dult Assessment
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urveyor Drite Pawe			
ite Name Majo	Site Loc es Surveyed:	ation My v c	Min
otal Acres:Total Acresours Surveyed: \(\frac{1}{5}\)!	es surveyed.	Dicyation, Max,	The contract of the contract o
ours surveyed. At 18 1-1			42020
Hanne 2/inc )			
	Jan 15		
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-  4-0-0 clear ->	4-% cloud cover h	azy	72°
clear	% cloud cover h	azy	en a charagair
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	CAT WILLIAM TO MANUAL TO COMP. THE CATALOG AND COMP.	azy	ter serrett toppdill/0 af s
The state of the s		azy	- 175 g 146 1
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		azy	with the colored contraction of the color
clear			
clear clear bitat onsite: open solls, hilltops,	entiret	azy soil crusts, clay soils, ol	d roads, nectar sources
clear. bitat onsue: open soils, hilitops,  Plantago erecta, Plantago	ridges, rock outcrops, s	soil crusts, clay soils, ol a exserta, Cordylanthus	e e le report
clear bitat onsite: open soils, hilltops,	ridges, rock outcrops, s	soil crusts, clay soils, ol a exserta, Cordylanthus	e e le report
clear bitat onside: open soils, hilitops,  Plantago erecta) Plantago Antirrhinum coulterianum	ridges, rock outcrops, s	soil crusts, clay soils, ol a exserta, Cordylanthus	e, or legacity
clear bitat onside: open soils, hilitops,  Plantago erecta) Plantago Antirrhinum coulterianum	ridges, rock outcrops, s	soil crusts, clay soils, ol a exserta, Cordylanthus	e e le repett
clear  bitat onsite: open soils, hilitops,  Plantago erecta Plantago Antirrhimim coulterianum  20 second period, mph	ridges, rock outcrops, s	soil crusts, clay soils, ol a exserta, Cordylanthus	e, or legacity
clear bitat onside: open soils, hilitops,  Plantago erecta) Plantago Antirrhinum coulterianum	ridges, rock outcrops, s	soil crusts, clay soils, ol a exserta, Cordylanthus	e e le repett
clear  pitat onsite: open soils, hilitops,  Plantago erecta, Plantago Antirrhimim coulterianum  20 second period, mph	ridges, rock outcrops, s	soil crusts, clay soils, ol a exserta, Cordylanthus	e, or legacity
clear  oitat onsite: open soils, hilitops,  Plantago erecta, Plantago Antirrhimum coulterianum  20 second period, mph	ridges, rock outcrops, s	soil crusts, clay soils, ol a exserta, Cordylanthus	e To reports
clear  oitat onsite: open soils, hilitops,  Plantago erecta, Plantago Antirrhimum coulteriamum  20 second period, mph  OMMENT:	ridges, rock outcrops, so patagonica, Castillejan, Collinsia heterophyll	soil crusts, clay soils, ol a exserta, Cordylanthus a.	rigidus
clear  pitat onsite: open soils, hilitops,  Plantago erecta, Plantago Antirrhimim coulteriamim  20 second period, mph  OMMENT:	ridges, rock outcrops, s o patagonica, Castilleja n, Collinsia heterophyll	soil crusts, clay soils, ol a exserta, Cordylanthus a	rigidus
clear citat onsite: open soils, hilitops;  Plantago erecta) Plantago Antirrhinum coulterianum  20 second period, mph  OMMENT:	ridges, rock outcrops, so patagonica, Castillejan, Collinsia heterophyll	soil crusts, clay soils, ol cexserta, Cordylanthus a.	rigidus
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Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
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Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
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Danaus gilippus (Queen)	
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
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Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
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	Euchloe hyantis lotta (Southern Marble)
	Eurema nicippe (Sleepy Orange)
	Nathalis tole (Dwarf Yellow)
	Pontia protodice (Common White)
	Zerene eurydice (California Dogface)
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	Apodemia mormo virgulti (Behr's Metalmark)
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Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue
Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus cerainus gyas (Edward's Blue)
Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
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(Henne's Checkerspot)  Junontal coenta (Buckeye)  Laptotes marinia (Marine Blue')  Nymphalis antique (Mourning Cloak)  Philotes sonorensis (Sonoran Blue')  Phycoides mylitta (Mylitta Crescent)  Polyonia saryrui (Satyr Anglewing)  Speyeria callippe (Callippe Friillary)  Thessalta leanira wrighti (Leanira Checkerspot)  Vanessa annabella (West Coast Lady)  Vanessa atalanta (Red Admiral)  Vanessa atalanta (Red Admiral)  Vanessa virginiensis (Virginia Lady)  Daniaus gilippus (Queen)  Daniaus gilippus (Queen)  Helipotete gricetorum (Great White Skipper)  Antinocharis sarva (San Orangetip)  Artinocharis sarva (San Orangetip)  Artinocharis sarva (San Orangetip)  Pyrgus albescens (Checkered Skipper)  Artinocharis sarva (San Orangetip)  Artinocharis (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchie (Alfalfa Butterfly)  Collas harfordii (Harford's Sulfur)  Euchie (Alfalfa Butterfly)  Collas harfordii (Harford's Sulfur)  Euchie (Harford's Sulfur)  Euchie (Harford's Sulfur)  Artinocharis (Euchie (Callegue)  Apodemia morno virguli (Behr's Metalmark	San		
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Euphydryns editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Bluc)
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	
Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
Junonia coenia (Buckeye)	Leptotes marma (Marme Blue)
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Mclissa Blue)
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Vanessa atalanta (Red Admiral)	- Incisalia-augustinus (Brown Elfin)
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Hylephila phyleus (Fiery Skipper)	Amhocharis sara (Sara Orangetip)
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	Colias emytheme (Alfalfa Butterfly)
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Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Bluc)
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorguini (Eorquin's Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche bygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona	Hemiargus ceraurus gyas (Edward's Bine)
(Chalcedon Checkerspot)	Let the service supplies the service s
Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Bluc)
Phycoides mylitta (Mylitta Crescent)	1000 mat 1
Polygonia satyrus (Satyr Anglewing)	
Speyeria callippe (Callippe Fritillary)	
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
	(Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	- Incisaka augustimis (Brown-Elfin)
Vanessa cardui (Painted Lady)	Strymon meliniis (Gray Hairstreak)
Vanessa virginiensis (Virginia Lady)	approximation with
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Mandie Philippe California y 2000 and 100 and	Papilio eurymedon (Pale Swallowtail)
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Committee of the commit	Bare Services and
Erynnis fineralis (Funeral Dusky-wing)  Heliopetes ericetorum (Great White Skipper)  Hylephila phyleus (Fiery Skipper)	Animocran is sara (Sara Orangeta)
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)
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	Eurema nicippe (Sleepy Orange)
	Nathalis iole (Dwarf Yellow)
	Pontia protodice (Common White)
	Zerene eurydice (California Dogface) :
	Il thorbis surge (Cloudless soften
	Riodnidae (Washinauks)
	Apodemia mormo virgulti (Behr's Metalmark)
Print Party Company Company Company	Calephelis wrighti (Wright's Metalmark)
	Shorthard assume the second se
	Coenonympha californica (California Ringlet)
THER:	
OTHER:	

# (5)

# **Quino Checkerspot Survey Form**

### **Adult Assessment**

Surveyor	Dun Po	u el (	Date 215/16	Site Visit	Number	3
Site Name	MAR 3		_ Site Location _	Miramo	r	
Total Acres:	Total A	cres Surveyed:	Elevati	on: Max	Min	
Hours Survey	red: 1'35"					

Time (24hr)	Sky			Wind (aver*/max)	Temp (F)
	clean	% cloud cover	hazy	5/8	75"
1400	,cleas	% cloud cover	hazy	4/6	740
4455	<b>Clear</b>	% cloud cover	hazy	\$17	700
	clear	% cloud cover	hazy	2.4	
	clear	% cloud cover	hazy		
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	clear	% cloud cover	hazy		
9	clear	% cloud cover	hazy		

Habitat onsite; open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecia, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph

Nymphalidae (E	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
~	Charidryas gabbii (Gabb's Checkerspot)	(Southern Blue)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
111	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
		Plebejus melissa (Melissa Bluc)
	Nymphalis californica (California Tortoiseshell)  Phycoides myliita (Mylitta Crescent)	riebejus menssa (Wichssa Bluc)
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
	in in the second se	(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
		Papilionidac (Swallowtails)
Danaidae (Milk	tweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
lesperidae	30-31-17-17-17-17-17-17-17-17-17-17-17-17-17	Pieridae (Whites and Orangetips)
175	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
3.5	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
11	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus olbescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	The state of the s	Colias eurytheme (Alfalfa Butterfly)
1000000		Colias harfordii (Harford's Sulfur)
	11 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Slccpy Orange)
		Nathalis iole (Dwarf Yellow)
		Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		Riodinidas (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		Sanda 64 da
		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
OTHER:		
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ite Name			Location		m By	<u> </u>
otal Acres:		res Surveyed:	Elevation	on: Max	Min_	-
lours Surveyed: 🔠	1,00,					A Sept.
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Capaciticana Canada National Association of the Capacitic Capaciti	clear	% cloud cover	hazy	100m. 220		e e e e e e e e e e e e e e e e e e e
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	clear	% cloud cover	hazy		1900 000	377
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	clear	% cloud cover	hazy hazy	ts, clay soils,	old reads,	nectar so
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Euphydryns editha guino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Eorquin's Admiral)	Everes anyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
Euphydryus chalcedona chalcedona	Hemiargus cerainnis gyas (Edward's Blue)
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Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	- Incisalia augustimus (Brown Elfin)
Vanessa cardui (Painted Lady)	Strymon melinics (Gray Hairstreak)
Vanessa virginiensis (Virginia Lady)	Carting Gost Bally I
The Mark Country West Country of Country Count	Control Date At Sec. 15
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Danaus gilippus (Queen) VXSS	Papilio rutulus (Western Tiger Swallowtail)
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
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Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
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	Eurema nicippe (Sleepy Orange)
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	Pontia protodice (Common White)
	Zerene eurydice (California Dogface)
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	Relationable (Metalinants)
	Apodemia mormo virgulti (Behr's Metalmark)
	Calephelis wrighti (Wright's Metalmark)
was a superior of the superior	Coenonympha californica (California Ringlet)
OTHER:	* * *
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Dale A Powell

	(Prospidae (Bluesia - 11 ) Section (Bluesia - 12 )
Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Eorquini;s Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	Gloveons sche lucdamus australis (Southern Blue
Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemitirgus cerainus gyas (Edward's Blue)
Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
Junonia coenia (Buckeye)	Leptotes marma (Marme Blue)
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
Phycoides mylitta (Mylitta Crescent)	transport and the second second second
Polygonia satyrus (Satyr Anglewing)	
Speyeria callippe (Callippe Fritillary)	
Thessalia leantra wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	- Incisalia augustinus (Brown-Elfin)
Vanessa cardui (Painted Lady)	Strymon melinits (Gray Hairstreak)
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Vanessa virginiensis (Virginia Lady)	
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and the filter continues and the second	Papilio eurymedon (Pale Swallowtail)
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
The second secon	Papilio zelicaon (Anise Swallowtail)
Danaus plexippus (Monarch)	Papino zeneaon (Ainse Swallowiau)
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	Parameter Control of C
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marhle)
Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
Pyrgus albescens (Checkcred Skipper)	Artogeia rapae (Cabbage White)
the are some the morning and see her	
	Colias harfordii (Harford's Sulfur)
W NO ME	Euchloe hyantis lotta (Southern Marble)
	Eurema nicippe (Sleepy Orange)
	Nathalis iole (DwarffYellow)
	Pontia protodice (Common White)
	Zerene eurydice (California Dogface)
	Richard Memory S.
	Apodemia mormo virgulti (Behr's Metalmark)
	Calephelis wrighti (Wright's Metalmark)
	Set pillers in all years
THE CONTROL OF THE PROPERTY OF	Coenonympha californica (California Ringlet)
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#### Adult Assessment

Surveyor	Dale Co	ال الله المالية	Date 2 14/16	Site Visit N	Number <u>2</u>	<u> </u>
Site Name	Mak	6	Site Location	1.1.	21	-
Total Acres:	Total	Acres Surveyed:	Elevation	on: Max	Min	
Hours Survey	red: 2/30/	mar	Ti	- 0		

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
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1500	clear ப्री % cloud cover	hazy	416	700
1600	clear 50 % cloud cover	hazy "	3/6	680
1200	clear 20 % cloud cover	hazy	3/5	680
	clear % cloud cover	hazy		
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	clear % cloud cover	hazy		8 3 57
	clear % cloud cover	hazy		

Habitat onsite open soils, hilltops, ridges, lock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta: Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph

Nymphalidae	(Brush Footed Butterflies)	Lycaenidae (Blues)		
	Euphydryas editha quino (Quino Checkerspot)		Brephidium exilis (Pygmy Blue)	
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)	
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)	
	Charidryas gabbii (Gabb's Checkerspot)	11	Glaucopsyche lygdamus australis (Southern Blue)	
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)	
	(Chalcedon Checkerspot)		Icarcia acmon (Acmon Blue)	
	Euphydryas chalcedona hennei (Henne's Checkerspot)	1	Teareia acmon (Acmon Blue)	
	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)	
	Nymphalis antiope (Mourning Cloak)	<del></del>	Philotes sonorensis (Sonoran Blue)	
-,	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)	
	Phycoides mylitta (Mylitta Crescent)		Treating memory (management)	
	Polygonia satyrus (Satyr Anglewing)		The state of the s	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (	Hairstreaks)	
	Thessalia leanira wrighti (Leanira Checkerspot)	Eyencindae (	Atlides halesus (Great Purple Hairstreak)	
A CONTRACTOR	Vanessa annabella (West Coast Lady)	<u> </u>	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)	
	Vanessa atalanta (Red Admiral)		Incisalia augustimus (Brown Elfin)	
	Vanessa cardui (Painted Lady)		Strymon melinus (Gray Hairstreak)	
	Vanessa virginiensis (Virginia Lady)			
	Function of Figure 2007			
	10 HONE - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	Papilionidae	(Swallowtails)	
Danaidae (Mi	lkweed Butterflies)		Papilio eurymedon (Pale Swallowtail)	
Danidac (Wit	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)	
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)	
	Daniela presippia (istimate)			
Hesperidae		Picridae (Wh	ites and Orangetips)	
1	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis cethura (Felder's Orangetip)	
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)	
	Hylephila phyleus (Fiery Skipper)		Anthocharis sara (Sara Orangetip)	
	Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)	
	B A A A A A A A A A A A A A A A A A A A		Colias eurytheme (Alfalfa Butterfly)	
	· · · · · · · · · · · · · · · · · · ·		Colias harfordii (Harford's Sulfur)	
		1	Euchloe hyantis lotta (Southern Marble)	
	A CONTRACTOR OF THE CONTRACTOR		Eurema nicippe (Sleepy Orange)	
			Nathalis tole (Dwarf Yellow)	
	A ALMANDA A		Pontia protodice (Common White)	
		71 - F. S. III II I	Zerene eurydice (California Dogface)	
		-		
	and the second s	Riodinidae ()		
		111	Apodemia mormo virgulti (Behr's Metalmark)	

Satyridae (Sotyrids)
Comonympha californico (Conterna)



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rveyor	WHY TO	well Date	31-11	6 Site Visit Numb	er	104000
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Dale A Powell

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7	Celastrina ladon echo (Echo Blue)
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112 1111	Glaucopsyche lygdamus australis (Southern Blue)
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Committee of the Committee of	Leptatés marina (Marine Blue)
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	Plebejus melissa (Melissa Blue)
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and the same of th	Atlides halesiis (Great Purple Hairstreak)
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	(Perplexing Hairstreak)
	- Incisalia augustinus (Brown Elfin)
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Ashirtan (t)	Papilio rutulus (Western Tiger Swallowtail)
All agent from a	Papilio zelicaon (Anise Swallowtail)
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and the second s	Anthocharis cethura (Felder's Orangetip)
	Anthocharis lanceolata (Grinnell's Marble)
LIBERT WINGE	Anthocharis sara (Sara Orangetip)
	Artogeia rapae (Cabbage White)
A LEGIS CONTRACTOR	
85341 3 2	Colias harfordii (Harford's Sulfur)
	Euchloe hyantis lotta (Southern Marble)
	Eurema nicippe (Sleepy Orange)
	Nathalis iole (Dwarf Yellow)
	Pontia protodice (Common White)
	Zerene eurydice (California Dogface)
Destroy to a Co	
[ ]	Apodemia mormo virgulti (Behr's Metalmark)
	Calephelis wrighti (Wright's Motalmark)
Free Contraction Contraction	
(Satyridae (Sat	Coenonympha californica (California Ringlet)
	0 10 000 10 10
<b>_</b>	
	A STOCKER TO SECOND STATE OF THE SECOND STATE

# 48

# **Quino Checkerspot Survey Form**

# **Adult Assessment**

Surveyor	Jun	Pawell	Date	214	Site Visit N	Number	
Site Name	Mas	e 4 '	Site	Location	Marion	m Dy	
Total Acres:	Ţ	otal Acres Surve	eyed:	Elevation	on: Max	Min	
Hours Survey	yed: 1/15	Ÿ.					

Time (24hr)	JA.	Sky	E 8	Wind (aver*/max)	Temp (F)
1315	clear	% cloud cover	hazy	3/6	70°
1400	clear	% cloud cover	hazy	316	720
	clear	% cloud cover	hazy		
1	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite; open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Anturhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

Dale A Powell

Nymphalidae (B	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
1130-35-11788	Charidryas gabbii (Gabb's Checkerspot)	
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
	Junonia coema (Buckeye)	Leptotes marina (Marine Bluc)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
-		Papilionidae (Swallowtails)
Danaidae (Milk	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)
The state of the s	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Uecneridae		Picridae (Whites and Orangetips)
Hesperidae	Erynnis funeralis (Funcral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
*****	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	. 7.8	Colias eurytheme (Alfalfa Butterfly)
	the transfer of the transfer o	Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
11-1000		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
		Coenonympna catyornica (Camornia Kinglet)
OTHER:		
	WWW.	The state of the s

(53)

## **Quino Checkerspot Survey Form**

# Adult Assessment

Surveyor	Jun Powell	Date 3/20/16	Site Visit N	Number _ 🕂
Site Name	Map 3	Site Location	Miray	40.5
Total Acres:	Total Acres Surveyed	:Elevation	on: Max	Min
Hours Surveyed:	7'00"			

Time (24hr)	-	Sky	0 ≥0 = 0	Wind (aver*/max)	Temp (F)
600)	clear 7		hazy	1/3	610
1030	clear 2	3 % cloud cover	hazy	3,5%	31
1100	clear	% cloud cover	hazy	1/3	\$ 1.78
1200	cléar	% cloud cover	hazy	0	1 20 11 11
1 500	clear	% cloud cover	hazy	3/4	76*
140	clear	% cloud cover	hazy	375	76
1500	clear	% cloud cover	hazy	474	151
1600	clear	% cloud cover	hazy	3/4	9n
1300	clear	% cloud cover	hazy	5 19	67"
1000	clear	% cloud cover	hazy	2 3 and	
900-	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph

1-951-686-1497



Nymphalidae (Brush Footed Butterflies)	Lycaenidae (Blues)	
Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)	
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)	
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)	
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Bl	
Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)	
(Chalcedon Checkerspot)	Icarcia acmon (Acmon Blue)	
Euphydryas chalcedona hennei	rearcia aemon (Action side)	
(Henne's Checkerspot)    Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)	
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)	
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)	
Phycoides mylitta (Mylitta Crescent)	T reversa member (Profited Dide)	
Polygonia satyrus (Satyr Anglewing)	-1-200	
Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)	
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)	
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum	
( West Coast Lady)	(Perplexing Hairstreak)	
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)	
Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)	
Vanessa virginiensis (Virginia Lady)		
	Papilionidae (Swallowtails)	
Danaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swallowtail)	
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)	
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)	
Hesperidae	Pieridae (Whites and Orangetips)	
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)	
Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)	
Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)	
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)	
WENT TO THE PARTY OF THE PARTY	Colias eurytheme (Alfalfa Butterfly)	
	Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)	
	Eurema nicippe (Sleepy Orange)	
	Nathalis iole (Dwarf Yellow)	
	Phoebis sennae (Cloudless sulfur)	
	Pontia protodice (Common White)	
The second secon	Zerene eurydice (California Dogface)	
The state of the s	Zerene em yaice (Camonia Dogiace)	
**************************************		
The second secon	Riodinidae (Metalmarks)	
	Apodemia mormo virgulti (Behr's Metalmark)	
	Calephelis wrighti (Wright's Metalmark)	
112 112 112 112 113 113 113 113 113 113	Satyridae (Satyrids)	
	Coenonympha californica (California Ringlet)	
DTUED.		
OTHER:	//	
in the second of		
	The second secon	

# (54)

# **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	Jun Po	lisen	1	Date 3/21/16	Site Visit	Number	4
Site Name	Macz		Σ	_ Site Location _	Is care	11	
Total Acres:	Total	Acres S	Surveyed:	Elevat	ion: Max	Min_	
Hours Surveye	ed: 5/6/6						

Time (24hr)	Sky	Wind (aver*/max)	Temp (F)	
: (° D D	clear % cloud cover	hazy	3/6	5 F.O
	clear 5 % cloud cover	hazy	214	77 73 8
1,12	clear 🐣 % cloud cover	hazy	3/5	772 70
15.35	clear 5 % cloud cover	hazy	417	720
14.00	clear 5% cloud cover	hazy	972	70°
1700	clear % cloud cover	hazy	4/6	52"
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		- A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph



Nymphalidae (	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Bluc)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Mclissa Bluc)
E // H NO	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
		(Perplexing Hairstreak)
TO NOT THE	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
		Papilionidae (Swallowtails)
Danaidae (Mill	cweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Tesperidae	The second secon	Pieridae (Whites and Orangetips)
JHT !	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
1	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
<u>il i</u>	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
	Constant Con	Eurema nicippe (Sleepy Orange)
	7 100 1 100 1 100 100 100 100 100 100 10	Nathalis iole (Dwarf Yellow)
	The state of the s	Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		777700000
		Riodinidae (Metalmarks)
	The state of the s	Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		Carepriess wright (wright 5 wordings)
		Satyridae (Satyrids)
	The state of the s	Coenonympha californica (California Ringlet)
THER:		† · · · · · · · · · · · · · · · · · · ·
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# **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Dun	Powell	Date_	3/22/16	_ Site Visit l	Number <u>4</u>
Site Name	Ma	e 5	Site	e Location _	Marganett	·/
Total Acres:	T	otal Acres Survey	red:	Elevati	ion: Max	Min
Hours Survey	yed: 3/4	54				

Time (24hr)	S	lky		Wind (aver*/max)	Temp (F)
1000	clear (60% clo	oud cover h	azy	6/7	640
0011	clear 35% clo	oud cover h	azy	<del>5</del> /9	68.0
1200	clear 40 % clo	oud cover h	azy	5/6	70°
1300	clear 15 % clo	oud cover h	azy	L. F.S	7
1345	clear 10 % clo	oud cover h	azy	5/9	70°
	clear % clo	oud cover h	azy		
	clear % clo	oud cover h	azy		
***************************************	clear % clo	oud cover h	azy		
	clear % cle	oud cover h	azy		
	clear % clo	oud cover h	azy		
	clear % clo	oud cover h	azy	4	
	clear % clo	oud cover h	azy		
	clear % cle	oud cover h	azy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops soil crusts, clay soils, old roads, nectar sources-

Plantago erecto, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph



	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Bluc)
	Adelpha bredowii californica (California Sister)	Celustrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
7	Euphydryas chalcedona hennei	Icarcia aemon (Acmon Blue)
	(Henne's Checkerspot)	
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
1	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Btown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
		Papilionidae (Swallowtails)
Danaidae (Milk	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Qucen)	Papilio rutulus (Western Tiger Swallowtail)
0.000	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Hesperidae		Pieridae (Whites and Orangetips)
1 respertuac	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis Ianceolata (Grinnell's Marbie)
11.1	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
· HTT 111	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	7 yr gas dispesseris (Checkered skipper)	Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
	The second secon	Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
	- Harakan - Amerikan -	Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
	minting and the second	Zerene eurydice (California Dogface)
		zerene en yance (cumorina Dogiace)
*1-4-1	- Vitte I	Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		5(5
	A	Satyridae (Satyrids)
	THE STATE OF THE S	Coenonympha californica (California Ringlet)
		The same of the sa
YELLEO.		
OTHER:		

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#### **Quino Checkerspot Survey Form**

#### **Adult Assessment**

1-951-686-1497

Surveyor	Jun Forme	Date_	3/2/16	Site Visit 1	Number	
Site Name	March	Site	Location	M	ramak	
Total Acres:	Total Acres	Surveyed:	Elevation	n: Max	Min	
Hours Surve	ved: 1/15/			2300000	33	

Time (24hr)	5 5	Sky	W B	Wind (aver*/max)	Temp (F)
OOVI	clear	% cloud cover	hazy	2/8	679
1515	clear	5 % cloud cover	hazy	1/9	683
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
·	clear	% cloud cover	hazy		1000 - 1000
*	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

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vmphalidae (F	Brush Footed Butterflies)	Lycaenidae (	Blues)
Jan Prantisens (	Euphydryas editha quino (Quino Checkerspot)		Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Bluc)
	Basilarchia lorquini (Lorquin's Admiral)	-	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
¥	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (	(Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)		Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)		
		Papilionidae	(Swallowtails)
Danaidae (Mill	(weed Butterflies)		Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
Icsperidae		Pieridae (W	hites and Orangetips)
11	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis cethura (Felder's Orangetip)
171	Heliopetes ericetorum (Great White Skipper)	3	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)		Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)
			Colias eurytheme (Alfalfa Butterfly)
			Colias harfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
			Phoebis sennae (Cloudless sulfur)
			Pontia protodice (Common White)
	4		Zerene eurydice (California Dogface)
		Riodinidae (	(Metalmarks)
		11	Apodemia mormo virgulti (Behr's Metalmark)
			Calephelis wrighti (Wright's Metalmark)
			A management of the second of
	a company of the second	Satyridae (S	Satyrids)
	The state of the s		Coenonympha californica (California Ringlet)
DOLLER			
OTHER:			FIG. C.
			***************************************
	77/77	1	

# (77)

# **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor Dale Pauell	Date 3/20/16 Site Visit Number 4
Site Name (00 el + 2	Site Location (V)
Total Acres:Total Acres Surve	eyed: Elevation: Max Min
Hours Surveyed: 2/45"	

Time (24hr)	Sky	\$	Wind (aver*/max)	Temp (F)
100	clear 720% cloud cover	hazy	170	6.7
1 0 700 0	clear 30% cloud cover	hazy		(993° d)
1000	clear - % cloud cover	hazy		- '
5	clear % cloud cover	hazy		\$4 7.55
1245	clear ' % cloud cover	hazy	8	75
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		:=:
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph



vmphandae i is	rush Footed Butterflies)	Lygaenidae (Blues)
, aprillation (D	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Bluc)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorguini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Bluc)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	200
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
	Vanessa aranabena (West Coast Lady)	(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa andiana (Red Admiral)  Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	And the second s
	Vanessa virginiensis (Vilginia Lady)	The state of the s
		Papilionidae (Swallowtails)
	ID 01 A	Papilio eurymedon (Pale Swallowtail)
Danaidae (Milkweed Butterflies)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus gilippus (Queen)	Papilio zelicaon (Anise Swallowtail)
	Danaus plexippus (Monarch)	1 aprilo zencuon (runse Swattowian)
Tesperidae		Pieridae (Whites and Orangetips)
resperidae	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
TITI .	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
<del></del>	1 W gas dibescens (Checkered Bripper)	Colias eurytheme (Alfalfa Butterfly)
	· · · · · · · · · · · · · · · · · · ·	Colias harfordii (Harford's Sulfur)
		Euchloe hvantis lotta (Southern Marble)
	Comments - Comments - Comments	Eurema nicippe (Sicepy Orange)
		Nathalis iole (Dwarf Yellow)
	- Wikaning	Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		Zerene earyante (Camorina Dograco)
-x:((x));		Riodinidae (Metalmarks)
3000000		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		Satyridae (Satyrids)
	W. Could describe to	Coenonympha californica (California Ringlet)
OTHER:		
JIHEK:		
	(i) 3) 40cm	

# (58)

# **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Dale Parel	Date 21.016	Site Visit	Number
Site Name	Mar 3		Milain	e. 1.5
Total Acres:	Total Acres Surveyed	i: Elevat	ion: Max	Min
Hours Survey	ed: 3/5"			

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1255	clear	% cloud cover	hazy	3/4	753
1400.	elear	% cloud cover	hazy	7/5	760
1500	elear	% cloud cover	hazy	4/6	750
1:00	ciear	% cloud cover	hazy	3/5	テンク
1700	clean	% cloud cover	hazy	5/8	6 700
	clear	% cloud cover	hazy		
7-7	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
200 - 200 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph



Nymphalidae (I	Brush Footed Butterflies)	Lycaenidae (F	Blues)
17.11.	Euphydrygs editha quino (Quino Checkerspot)	111	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
-17	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)  Euphydryas chalcedona hennei		learcia aemon (Aemon Blue)
	(Henne's Checkerspot)		
11	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
a Saithe	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	- WITT	The second secon
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (l	Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
11	Vanessa annabella (West Coast Lady)	3/3	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	111	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Vitginia Lady)		
		Panilianidae	(Swallowtails)
D	I DutterSize	1 apatomate	Papilio eurymedon (Pale Swallowtail)
Danaidae (Mil	kweed Butterflies)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus gilippus (Queen) Danaus plexippus (Monarch)	1	Papilio zelicaon (Anise Swallowtail)
	Danaus piexippus (Monaich)		1 upino zenouo, y
		Diaridae (Wh	ites and Orangetips)
Hesperidae	Formula Garanalia (Eumaral Ducky, wing)	1 Ichac (Wi	Anthocharis cethura (Felder's Orangetip)
	Erynnis funeralis (Funeral Dusky-wing)  Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
tor	Hylephila phyleus (Fiery Skipper)	HIT III	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	ATH UL	Artogeia rapae (Cabbage White)
	Tyrgus divescens (Checkered Skipper)		Colias eurytheme (Alfalfa Butterfly)
V.			Colias harfordii (Harford's Sulfur)
	### T ## 1955 THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTAL TO THE TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TO THE TOTAL TOTA	- 1	Euchloe hyantis lotta (Southern Marble)
	100000		Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
	AND THE PROPERTY OF THE PERSON	1 1	Phoebis sennae (Cloudless sulfur)
	Military (process of the second of the secon		Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
	15311411		
		Riodinidae (	Metalmarks)
		111	Apodemia mormo virgulti (Behr's Metalmark)
MARKET TO	2000-1-1-100-1-1-1-1-1-1-1-1-1-1-1-1-1-1		Calephelis wrighti (Wright's Metalmark)
	The second secon	0.4.11.70	232
	The second of th	Satyridae (Sa	atyrids) Coenonympha californica (California Ringlet)
			Соепопутрна сапротнеа (Cantorina Ringlet)
OTHER:		_	
		**************************************	
	Vernius vicinius vici		

p.5

# (59)

# Quino Checkerspot Survey Form

#### **Adult Assessment**

Surveyor	Dale Pruvil	Date = 121/16 Site Visit Number +
Site Name	Mais 3,4,5	_ Site Location (Name and a location
Total Acres: _	Total Acres Surveyed	: Elevation: Max Min
Hours Surveye	d:	

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1200	clear 65	% cloud cover	hazy	216	57
1 1	clear /	% cloud cover	hazy		Anna St
1400	clear	% cloud cover	hazy		23.7
1, 1	clear	% cloud cover	hazy	7 17.	7
1500	clear '	% cloud cover	hazy	-17 %	
1700	clear ;	5 % cloud cover	hazy	4/6	620
	clear	% cloud cover	hazy		i in anni
44,111	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
3.110	clear	% cloud cover	hazy		_20000m
	clear	% cloud cover	hazy		ille a vening
-	clear	% cloud cover	hazy		10000
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

Nymphalidae (Br	rush Footed Butterflies)	Lycaenidae (Blu	ues)
Julyananaa (13)	Euphydryas editha quino (Quino Checkerspot)		Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	1"	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	İ	20 AP 10 AP
	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
,	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Ha	airstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum
	vanessa unnabena (west coast entry)		(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa alalania (Red Adillita)  Vanessa cardui (Painted Lady)		Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)		A STATE OF THE STA
	ranessa virginiensis (virginia Lady)	114 E W. 115 E	The state of the s
		Papilionidae (S	Swallowtails)
5 Jan 200	and Destruction)	1 aprilomas (S	Papilio eurymedon (Pale Swallowtail)
Janaidae (Milk	weed Butterflies)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus gilippus (Queen)		Papilio zelicaon (Anise Swallowtail)
	Danaus plexippus (Monarch)		T dymo zenedow (T zaso o samo
(Longod duo		Pieridae (Whit	es and Orangetips)
Hesperidae	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
	Hylankila phylaus (Figry Skinner)	1-11	Anthocharis sara (Sara Orangetip)
110000	(Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)
_ min	1 II ) Eng impedenta (Ottobres en propper)		Colias eurytheme (Alfalfa Butterfly)
77211			Colias harfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
	the same and the s		Eurema nicippe (Sleepy Orange)
	Annual Control of the		Nathalis iole (Dwarf Yellow)
	OCD ATTEMENT OF THE PARTY OF TH		Phochis sennae (Cloudless sulfur)
			Pontia protodice (Common White)
	. I CONTROL TO THE PROPERTY OF		Zerene eurydice (California Dogface)
		Riodinidae (M	[etalmarks)
- History		MM	Apodomia mormo virgulti (Behr's Metalmark)
		A 11 11 11 11 11 11 11 11 11 11 11 11 11	Calephelis wrighti (Wright's Metalmark)
150/H		Satyridae (Sat	yrids)
***************************************			Coenonympha californica (California Ringlet)
OTHER:			
	The second secon	Designation of the second	

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(3)

# **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Dale Pariell	Date 3/22/16		
Site Name	MAT S	Site Location	Mirales	91
Total Acres:	Total Acres Surveyed:	Elevation	on: Max	Min
Hours Survey	ved:			

Time (24hr)	2 14 12 11 12	Sky	a a	Wind (aver*/max)	Temp (F)
7 -7 -6	clear	% cloud cover	hazy	8 543	
	clear	% cloud cover	hazy	1/0	. ?
		% cloud cover	hazy	5%	70"
13.5	clear	% cloud cover	hazy	4/6	75
1, 7, 1, 2	clear	5% cloud cover	hazy	1 1	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	A COLUMN TO THE REAL PROPERTY OF THE PERTY O	
	clear	% cloud cover	hazy		17
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	(d)	and a desired
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

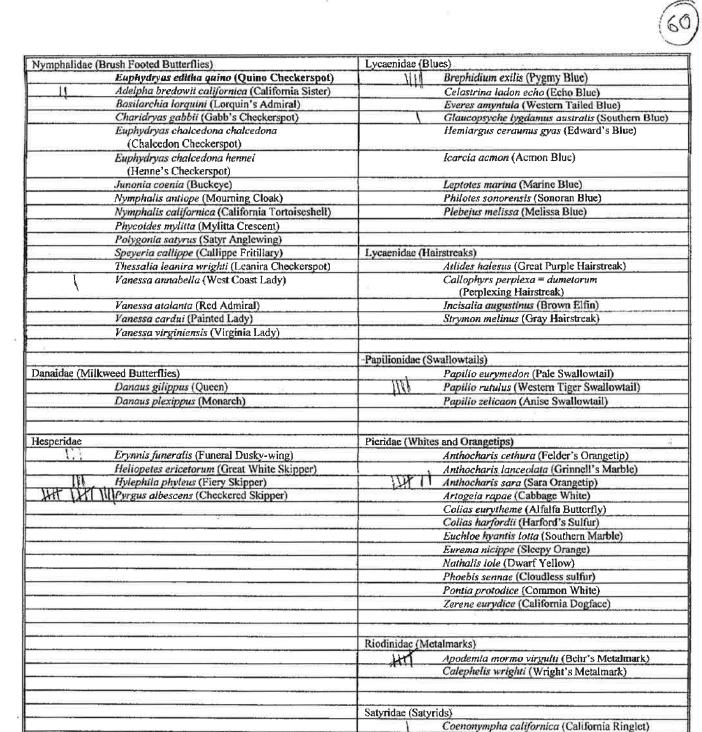
Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph

OTHER:

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# (61)

# **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Dale Panel	Date 3/22/16	Site Visit,	Number 4
Site Name	Mac	_ Site Location	Mira	0.03/
Total Acres:	Total Acres Surveyed	: Elevati	on:Max	Min
Hours Surveyed	Y 128.00	4		

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)	
14 00	clear	% cloud cover	hazy	6/17	572	
1315	clear	% cloud cover	hazy	69	\$5.5	
	clear	% cloud cover	hazy			
	clear	% cloud cover	hazy			
10 10 10 10 10 10 10 10 10 10 10 10 10 1	clear	% cloud cover	hazy		4	
	clear	% cloud cover	bazy			
	clear	% cloud cover	hazy			
	clear	% cloud cover	hazy			
	clear	% cloud cover	hazy			
	clear	% cloud cover	hazy			
	clear	% cloud cover	hazy			
	clear	% cloud cover	hazy			
	clear	% cloud cover	hazy			

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhimum coulterianum, Collinsia heterophylla.

*20 second period, mph



lymphalidae (1	Brush Footed Butterflies)	Lycaenidae (Blues)  Brephidium exilis (Pygmy Blue)		
	Euphydryas editha quino (Quino Checkerspot)			
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)		
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)		
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)		
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)		
	(Chalcedon Checkerspot)			
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)		
	(Henne's Checkerspot)			
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)		
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)		
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)		
	Phycoides mylitta (Mylitta Crescent)			
	Polygonia satyrus (Satyr Anglewing)			
99999999	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)		
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)		
Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum		
		(Perplexing Hairstreak)		
	Vanessa atalanta (Red Admiral)	Incisulia augustinus (Brown Elfin)		
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)		
	Vanessa virginiensis (Virginia Lady)			
SI 32 HOR THE TOTAL TO THE TOTA		Papilionidae (Swallowtails)		
Danaidae (Milk	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)		
January (	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)		
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)		
100 Maria				
T		Pieridae (Whites and Orangetips)		
lesperidae N	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)		
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)		
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)		
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)		
	Pyrgus autoscens (Checkered Skipper)	Colias eurytheme (Alfalfa Butterfly)		
		Colias harfordii (Harford's Sulfur)		
	The second secon	Euchloe hyantis lotta (Southern Marble)		
	The state of the s	Eurema nicippe (Sleepy Orange)		
		Nathalis iole (Dwarf Ycllow)		
		Phoebis sennae (Cloudless sulfur)		
an———	, which were a second or the second of the s	Pontia protodice (Common White)  Zerene eurydice (California Dogface)		
		Zerene euryaice (Camorina Dograce)		
****		n's Paris of the hands		
		Riodinidae (Metalmarks)		
- 1/4-1		Apodemia mormo virgulti (Behr's Metalmark)		
		Calephelis wrighti (Wright's Metalmark)		
	2000 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -	6.2.1.2.0.2.12.2		
		Satyridae (Satyrids)		
		Coenonympha californica (California Ringlet)		
OTHER:				
		*		

3509

Location 54	VICENTY RES. SA	N DIE O RIVER MENS Survey Segm	ient Surve	LARCA (8)
Surveyor 6	REL CHATMAN	Date 30 MAR ZOIG		
Survey Partner(				
Total Acres:	Portion Surveyed:	Elevation	on: Max	Min

Time (24 hr)	% Cloud	Skyrt teels and	Wind (range)	Temp (F)
Start 09:30	0	clear patchy overcast drizzle shower	2-4 mpn	61°F
10:00	0	clear patchy overcast drizzle shower	Z-Yayon	630 F
11:00	0	clear patchy overcast drizzle shower	3-5 mg	68°F
12:00	150ps	clear patchy overcast drizzle shower	2-5 mgh	67°F
13:00	20%	clear patchy overcast drizzle shower	2-6 apr	68°F
14:00	20%	clear patchy overcast drizzle shower	2-5 m/L	67° F
Stop 15: 43	25%	clear patchy overcast drizzle shower	3-5 mph	67°F

Habitat onsite (circle as applicable), hilltops, sidges, rock outcrops, open soil soil crust clay soil old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		1900 7 200
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		= %
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	10	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)	1	
Junonia coenia (Common Buckeye)	Z		Papilio eurymedon (Pale Swallowtail)	1	
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Rcd Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	15	X
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		-
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	6	X
Hesperidae			Colias eurytheme (Orange Sulphur)		-
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Slcepy Orange)	1	
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)	1	
Erynnis funeralis (Funereal Duskywing)	1		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)		· ·			
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak) Glaucopsyche lygdamus (Southern Blue)		*			
Icarcia acmon (Acmon Blue)				1	

Comments:		
* Apodemis mi	in peak Stight (Lo	ts of fresh females)
Possible sta	A of Zud broad of A.	thocharis sara
<i>P</i>	A of Zud broad of A.	ndividuals)
165.65		
		8
		***************************************
Plant Communities and Habitat Inform	nation:	***
Tiant Communities and Habitat Inform	iation:	
Host Plants Present: Plantago	recta t Castilleja exet	A _a
1100011190	Jan Jan State Stat	
Nectar Plants Present: Ruckuhes	t + Black-sage now be	1
Buckares Buckares	A F BIACK-SAGE NON B.	woming
☐ Quino Sighting □	Pate: GPS Location	
- Vamo organis	GI G Location	
Dhata anouh a Tala		
Photographs Taken:		_
1.	2,	3.
4.	5.	6.
7.	8.	9.
10.	11.	12.

Location _ Surveyor		TREADMENT FACILITY	Date 31 mas 2016 Survey Week Number (5)	7
Survey Pa		Chimina	But 31 Mars 2010 But voy Week Humber [5]	_
Total Acre	es:	Portion Surveyed:	Elevation; Max Min	

Time (24 hr)	% Cloud	THE COLE	Sky	the		Wind (range)	Temp (F)
Start 09:00	0	clear patchy	overcast	drizzle	shower	1-2 mph	61° F
10:00	D	clear patchy	overcast	drizzle	shower	1-2 mgs	64° F
11:00	-6	clear) patchy	overcast	drizzle	shower	4-byn	67°F
12:00	-0	clear patchy	overcast	drizzle	shower	4-6m/c	72°F
13:00	-6	clear patchy	overcast	drizzle	shower	5-7 mgs	740F
14:00	4	clear patchy	overcast	drizzle	shower	4-6ngr	74°F
Stop 15:30	0	clear patchy	overcast	drizzle	shower	5-7m/h	73° F

Habitat onsite (circle as applicable): hilltops, ridges, rock outcrops, open soils soil crustoclay soils old roads Plantago Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Bútterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)	17		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		i.
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	10	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	8		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Ü	Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Picridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)	1		Anthocharis cethura (Desert Orangelip)		
Danaidae		741	Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)	1		Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	14	
Hylephila phyleus (Fiery Skipper)	1		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	2		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	1		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: Adeloha bradowii californ	ria (1	)
Erynnis propertius (Propertius Duskywing)			OTHERS: Adelpha bradowii california (California sister)		
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)			40 E		
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)		*			
Celastrina ladon (Echo Blue)					

Surveyor LAG CHAMMAN Segment # SURVEY ARCA (4) Date: 31 MARCH 2016 Comments: * BUCKEYE'S IN DEMK FLIGHT Plant Communities and Habitat Information: Plantago erecta + Castilleja exerta **Host Plants Present:** Buckahent + Black-case blooming now! **Nectar Plants Present:** ☐ Quino Sighting **GPS** Location: Date: Photographs Taken: 3. 6. 5. 4. 8. 9. 7.

11.

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Location MISSI	ON GURGE AREA	Survey Segment Summer	ANEA (7)
Surveyor linel	CHARMAN	Date 02 Apr Zol6 Survey Week	Number (5)
Survey Partner(s)			
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	region could	Sky	1000		Wind (range)	Temp (F)
Start 10:00	0	clear patchy	overcast	drizzle	shower	1-2 mph	710 F
11:00	0	clear patchy	overcast	drizzle	shower	2-4mgh	76°F
12:00	0	clear patchy	overcast	drizzle	shower	Zugan	8105
		clear patchy	overcast	drizzle	shower	<i>3</i> /	-
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
Stop /3:00	0	clear patchy	overcast	drizzle	shower	3-5 mgh	63° F

Habitat onsite (circle as applicable). Miltops ridges rock outcrops open soils soil crusts, clay soils old roads Plantago, Castilleja Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	3	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	10	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	3	+	Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Picridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangelip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	12	4
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)	8		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	. 2		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	1		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

8.

11.

9.

12.

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Quino	Checkers	pot Sur	vey Form
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Dale A Powell

# **Adult Assessment**

Surveyor	1 34 10	View o		Date 🤼 🕂 i	Site Visit	Number <u></u>
Site Name Total Acres:	100	Total	Acres Surveyed	Site Location Eleva	mition: Max	Min
Hours Survey	red: 211	151	•			

Time (24hr)	1 2	Sky		Wind (aver*/max)	Temp (F)
0015	clear 6	0 % cloud cover	hazy	1.5	650
1000	clear -	% cloud cover	hazy	5/5	67.
· ne	clear	% cloud cover	hazy	16	700
91.11	clear	% cloud cover	hazy	70 17	5 5
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
10 300	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph



Nymphalidae (19	Frush Footed Butterflies)	Lycaenidae (Blues)
A TRANSPORT	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
-	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
- in-the final state of	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	
- Carrier - V	Junonia coenia (Buckeye)	Leptotes marina (Marine Bluc)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
	Full Data William ( 17 out Court Endy)	(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
	s mesonger and Chalanter ( to Million Toron)	
	200-00000000000000000000000000000000000	Papilionidae (Swallowtails)
Danaidae (Adill-	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)
Sandrage (MITE	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
	Dunus presippus (Moismon)	
Hesperidae		Picridae (Whites and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
11	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	1 // gan anococom ( cheeren anapper)	Colias eurytheme (Alfalfa Butterfty)
		Colias harfordii (Harford's Sulfur)
	CC -Windle-Art -	Euchloe hyantis lotta (Southern Marble)
	****	Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
	TOTAL CONTRACTOR TO THE PROPERTY OF THE PROPER	Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
entitioner et al.		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
		(Camonia Kinglet)
OTHER:		
	(4844-74-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-74-94-94-94-94-94-94-94-94-94-94-94-94-94	
		The second secon

# Quino Checkerspot Survey Form

#### **Adult Assessment**

Surveyor	Dale Pougli	Date 3/27/16	Site Visit	Number 5
Site Name	Map3	Site Location	Mira	was es st
Total Acres:	Total Acres Surveyed	l: Elevation	on: Max	Min
Hours Surveyed:	500			

Time (24hr)	j 8 - 8	Sky	100	Wind (aver*/max)	Temp (F)
1215	Clear	% cloud cover	hazy	3/5	ゴンゥ
1300	clear /	% cloud cover	hazy	2/4	3.10
(29.6)	clear>	% cloud cover	hazy	2/4	
7" 25	clear	% cloud cover	hazy	ર્યંપ	77-12
- বুকুছে ব	clear	% cloud cover	hazy	3/7	American American
15	ćlear	% cloud cover	hazy	338	48.0
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

	rush Footed Butterflies)	Lycaenidae (Blues)		
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)		
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)		
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)		
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)		
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Bluc)		
	(Chalcedon Checkerspot)			
	Euphydryas chalcedona hennei	Icarcia aemon (Aemon Blue)		
	(Henne's Checkerspot)			
111	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)		
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)		
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)		
	Phycoides mylitta (Mylitta Crescent)			
	Polygonia satyrus (Satyr Anglewing)			
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)		
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)		
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum		
		(Perplexing Hairstreak)		
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)		
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)		
til	Vanessa virginiensis (Virginia Lady)			
		Papilionidae (Swallowtails)		
Danaidae (Milk	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)		
Canada firms	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)		
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)		
	partition of the second of the			
Hesperidae		Pieridae (Whites and Orangetips)		
1111	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)		
1111	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)		
THE !	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)		
- Million	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)		
	-7/8	Colias eurytheme (Alfalfa Butterfly)		
		Colias harfordii (Harford's Sulfur)		
		Euchloe hyantis lotta (Southern Marble)		
AT EMPTY AS A		Eurema nicippe (Sleepy Orange)		
		Nathalis iole (Dwarf Yellow)		
****		Phoebis sennae (Cloudless sulfur)		
		Pontia protodice (Common White)		
		Zerene eurydice (California Dogface)		
	TT	Distinides (Matellando)		
,		Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark)		
		Calephelis wrighti (Wright's Metalmark)		
		Catepneus wilgitt (wingitt 5 tyletatilatik)		
		Satyridae (Satyrids)		
*****		Coenonympha californica (California Ringlet)		
		COUNTY TO THE COUNTY THE ACTION OF		
OTHER:				
O HILLAN				
	**	1		

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Surveyor	Dala Panell		e Visit Number <u>5</u>
Site Name	Map 3.	Site Location	19 more
Total Acres:	Total Acres Surveyed	: Elevation: N	Max Min
Hours Surveyed	i: \ '25"		

Time (24hr)	11	Sky		Wind (aver*/max)	Temp (F)
1100	clear 20	% cloud cover	hazy	3/5	(, Tr
1225	clear \	> % cloud cover	hazy	2/4	<u>(</u> 9)
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		-11
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph

1-951-686-1497

Nymphalidae (E	Brush Footed Butterflies)	Lycaenidae (E	Blues)
JPinning A	Euphydryas editha quino (Quino Checkerspot)	4	Brephidium exilis (Pygmy Blue)
1	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Bluc)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		
******	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Bluc)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Bluc)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)		
10-35-31-00-0	Speyeria callippe (Callippe Fritillary)	Lycaenidae (I	Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Flairstreak)
	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	10,201140-110	Strymon melinus (Gray Hairstreak)
V	Vanessa virginiensis (Virginia Lady)		
1 1127000		Papilionidae (	(Swałlowtails)
Danaidae (Milk	weed Butterflies)		Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
(formacidos		Digridge (M/h	ites and Orangetips)
Hesperidae	Erynnis funeralis (Funeral Dusky-wing)	1 Ichidac ( Will	Anthocharis cethura (Felder's Orangetip)
<del></del>	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	11	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	<del></del>	Artogeia rapae (Cabbage White)
	Tyrgus utbescens (Checkered Skipper)		Colias eurytheme (Alfalfa Butterfly)
			Colias barfordii (Harford's Sulfur)
	750		Euchloe hyantis lotta (Southern Marble)
	, , , , , , , , , , , , , , , , , , ,		Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
			Phoebis sennae (Cloudless sulfur)
			Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
			Zerene euryaice (Camonna Dograce)
	The same of the sa	Riodinidac (N	Metalmarks)
		10 1	Apodemia mormo virgulti (Behr's Metalmark)
			Calephelis wrighti (Wright's Metalmark)
	<u> </u>	Satyridae (Sa	sturide)
	MALE MANAGEMENT OF THE STATE OF	Saly Huac (Sa	Coenonympha californica (California Ringlet)
oce o receipt			Contonympha cargo mea (Cantorna tenglet)
OTHER:			
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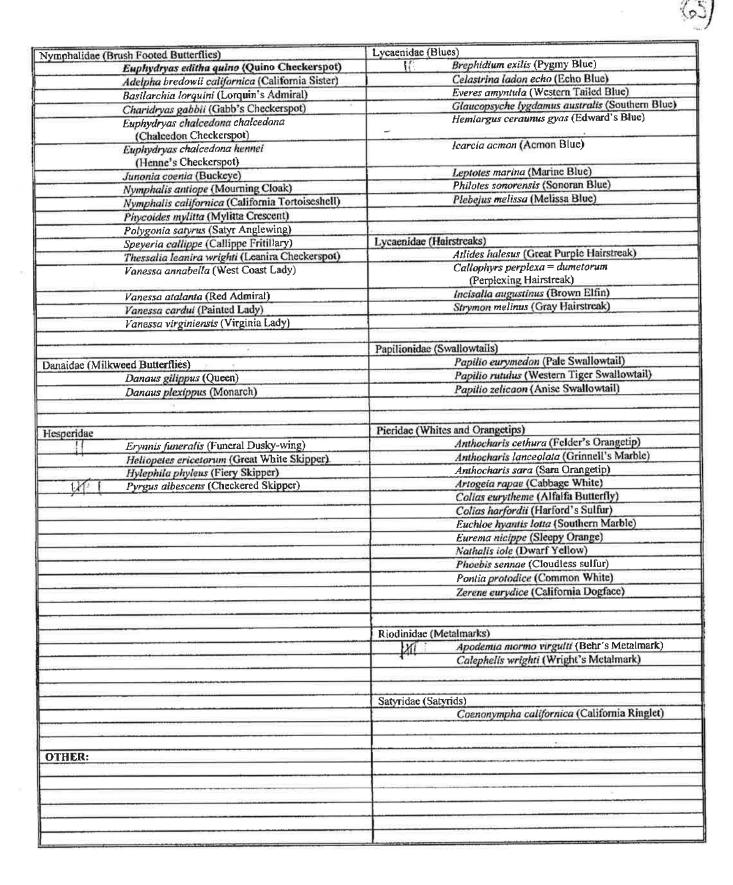
Surveyor	Oak Pour	Date	Site Visit	Number 5
Site Name	yvia f4+5	_ Site Location	11/1/2	15,0972
Total Acres:	Total Acres Surveyed	: Elevation	on: Max	Min
Hours Surveyed:	2'45"			

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1245	clear (	% cloud cover	hazy	46	725
1	clear 😭 🔾	% cloud cover	hazy	10.40	-7
(a) (b) (b)	clear 🌊	% cloud cover	hazy	417	69
	clear	% cloud cover	hazy	$-\varepsilon /2$	67
1530	clear 40	% cloud cover	hazy	E 17	670
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	çlear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecto, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



1-951-686-1497

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# **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Daie Pawell		Site Visit Number
Site Name	Map 5		Miramor
Total Acres:	Total Acres Surveyed	I: Elevation	n: Max Min
Hours Surveyed	l: <u>3/00¹¹</u>		

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1230	clear)	% cloud cover	hazy	1/5	997
11.50	clear	% cloud cover	hazy	2/4	600
0.221	clear	% cloud cover	hazy	3/6	710
	clear *	% cloud cover	hazy	517	7:
1330	Clear	% cloud cover	hazy	5/7	720
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		C there is
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
7,111	clear	% cloud cover	hazy	<u> </u>	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, tock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph



ymphalidae (E	Brush Footed Butterflies)	Lycaenidae (Blues)			
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Bluc)			
7	Adelpha bredowii californica (California Sister)	· Celastrina ladon echo (Echo Blue)			
r/	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)			
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)			
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)			
	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)			
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)			
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)			
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)			
	Phycoides mylitta (Mylitta Crescent)				
	Polygonia satyrus (Satyr Anglewing)				
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)			
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)			
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)			
	Vanessa atalanta (Red Admiral)	Incisalia augustimus (Brown Elfin)			
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)			
	Vanessa virginiensis (Virginia Lady)				
	The second secon	Papilionidae (Swallowtails)			
Danaidae (Milk	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)			
Janardae (IVIII)	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)			
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)			
	Danuas presippas (intotasen)				
		Pieridae (Whites and Orangetips)			
Hesperidae	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)			
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)			
111	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)			
THE STATE OF THE S	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)			
V1:-	. J. King dioeses in Constitution and Links	Colias eurytheme (Alfalfa Butterfly)			
		Colias harfordii (Harford's Sulfur)			
	And the state of t	Euchloe hyantis lotta (Southern Marble)			
		Eurema nicippe (Sleepy Orange)			
		Nathalis iole (Dwarf Yellow)			
		Phoebis sennae (Cloudless sulfur)			
		Pontia protodice (Common White)			
		Zerene eurydice (California Dogface)			
		Riodinidae (Metalmarks)			
		Apodemia mormo virgulti (Bchr's Metalmark)			
		Calephelis wrighti (Wright's Metalmark)			
		Satyridae (Satyrids)			
	The state of the s	Coenonympha californica (California Ringlet)			
OTHER:					
	The state of the s				

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# Quino Checkerspot Survey Form

# **Adult Assessment**

Surveyor	Pale	Present			200		
Site Name	Ma	06	Site	Location	Mine		
Total Acres:	ì	otal Acres Sur	/eyed:	Elevation	on: Max	Min_	
Hours Survey	red: 45						

Time (24hr)	W ONE	Sky		Wind (aver*/max)	Temp (F)
1745	clear	% cloud cover	hazy	5/3	6
1430	clear	% cloud cover	hazy	To la	700
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
4 - 13	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	3 32	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

*20 second period, mph



Vymnhalidae (B	rush Footed Butterflies)	Lycaenidae (Blues)
- Janpanarane (13	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	Lautetas varias (Morina Plus)
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)  Philotes sonorensis (Sonoran Blue)
	Nymphalis antiope (Mourning Cloak)	
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Snymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
1945		Papilionidae (Swallowtails)
Danaidae (Milk	weed Butterflies)	Papilio ewymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
- 100-100	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Hesperidae		Picridae (Whites and Orangetips)
resperidae	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	1) gia diotectia (	Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
	20, 310,000,000,000,000,000,000,000,000,000,	Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
Walter		
0.4-2		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
OTHER	was an advantage and the second	
OTHER:		

# 62

# **Quino Checkerspot Survey Form**

Dale A Powell

# **Adult Assessment**

Surveyor	Jun Pawell	Date 3/27/16	Site Visit 1	Number 5
Site Name	Mof3	Site Location	Wird	
Total Acres:	Total Acres Surveyed	l: Elevatio	n: Max	Min
Hours Surveyed:	8601			

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
000	clear 65 % cloud cover	hazy	13-	650
Conf	clear 25 % cloud cover	hazy	010	680
1100	clear % cloud cover	hazy	3/6	700
1.50	clear % cloud cover	hazy	3/5	700
V 2:7	clear 15 % cloud cover	hazy	2/4	745
	clear % cloud cover	hazy	2/1	710
- 7,5	clear % cloud cover	hazy	, J*	
- AAV-15-011 1-111117	clear / % cloud cover	hazy		
19.15	clear % cloud cover	hazy	3/5	63°
	clear % cloud cover	hazy		2) F = AHDP+++
	clear % cloud cover	hazy		
* *************************************	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite: open soils hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecza, Plantago patagonica; Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

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lymphalidae (Br	ush Footed Butterflies)	Lycaenidae (Bl	ues)
Janpinonio (Di	Euphydryas editha quino (Quino Checkerspot)	///:	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	-	Celastrina ladon echo (Echo Bluc)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	· ·	Glaucopsyche lygdamus australis (Southern Blue)
- 1/	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		Autoria nullimata un antico de la constanti de
IMITH	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
- KING T VI	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)		
311-11-011	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Ha	airstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum
			(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	1	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)		
	Tuncasa Tingania (Tagania		- Limite
		Papilionidae (S	Swallowtails)
Danaidae (Milkw	need Butterflies)		Papilio eurymedon (Pale Swallowtail)
Danaluge (IVIIIKW	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus glasippus (Monarch)		Papilio zelicaon (Anisc Swallowtail)
	Dunius presippus (menusi)		
Hesperidae		Pieridae (Whit	es and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis cethura (Felder's Orangetip)
7 = 1 = 1	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
14 14 11	Hylephila phyleus (Fiery Skipper)	11/11/11	Anthocharis sara (Sara Orangetip)
W 12 11	Pyrgus albescens (Checkered Skipper)	1	Artogeia rapae (Cabbage White)
			Colias eurytheme (Alfalfa Butterfly)
			Colias harfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
		40-4	Nathalis iole (Dwarf Yellow)
			Phoebis sennae (Cloudless sulfur)
			Pontia protodice (Common White)
	And the same of th		Zerene eurydice (California Dogface)
		27.0.7	
		Riodinidae (M	letalmarks)  Apodemia mormo virgulii (Bchr's Metalmark)
	,	Au.	Calephelis wrighti (Wright's Mctalmark)
	- inche)		Catepræns wright (Wilght Strictaman)
	A MARKETINE CONTRACTOR OF THE PARTY OF THE P	Satyridae (Sat	vride)
		Satyridae (Sat	Coenonympha californica (California Ringlet)
	3	<del></del>	Consultation of Control of Contro
OTHER:	Control Witchistory Control (Control (C		
	The state of the s		
		-	
OTHER:			

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Surveyor Dun Pour !	Date 3 29 1	The second secon	
Site Name Who B 3	Site Location	Miron	x-3 z
Total Acres: Total Acre	es Surveyed: Eleva	ation: Max	Min
Hours Surveyed: 1'25"			

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1100	clear	20 % cloud cover	hazy	3/5	673
1225	clear	\⊘ % cloud cover	hazy	2)4	49
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		V VA - VO V VANA HE
	clear	% cloud cover	hazy		
1100.9-63/20120-20	clear	% cloud cover	hazy		1 / 1
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



rush Footed Butterflies)  Euphydryas editha quino (Quino Checkerspot)  Adelpha bredowii californica (California Sister)	Lycaenidae (Blues)  Brephidium exilis (Pygmy Blue)  Celastrina ladon echo (Echo Blue)
Adelpha bredowii californica (California Sister)	Colortring ladou agho (Echo Blue)
	Celasir ina ladori echo (Echo Bille)
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
(Chalcedon Checkerspot)	
	Icarcia acmon (Acmon Blue)
	Leptotes marina (Marine Blue)
	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
	(Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
Vanessa virginiensis (Virginia Ladv)	
	D 10 11 40 11 432
	Papilionidae (Swallowtails)
	Papilio eurymedon (Pale Swallowtail)
	Papilio ratalus (Western Tiger Swallowtail)
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
	Pieridae (Whites and Orangetips)
Francis finaralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
Helionetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Anthocharis sara (Sara Orangetip)
	Artogeia rapae (Cabbage White)
Tyrgas disesseris (Citedratus Support)	Colias eurytheme (Alfaifa Butterfly)
	Colias harfordii (Harford's Sulfur)
	Euchloe hyantis lotta (Southern Marble)
	Eurema nicippe (Slccpy Orange)
	Nathalis iole (Dwarf Yellow)
	Phoebis sennae (Cloudless sulfur)
transmitted to the second of t	Pontia protodice (Common White)
	Zerene eurydice (California Dogface)
The state of the s	
	Riodinidae (Metalmarks)
	Apodemia mormo virgulti (Behr's Metalmark)
	Calephelis wrighti (Wright's Metalmark)
	S. A. vida (Catarida)
AND THE RESERVE OF THE PARTY OF	Satyridae (Satyrids)
	Coenonympha californica (California Ringlet)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)  Euphydryas chalcedona hennei (Henne's Checkerspot)  Junonia coenia (Buckeye)  Nymphalis antiope (Mourning Cloak)  Nymphalis californica (California Tortoiseshell)  Phycoides mylitta (Mylitta Crescent)  Polygonia satyrus (Satyr Anglewing)  Speyeria callippe (Callippe Fritillary)  Thessalia leanira wrighti (Leanira Checkerspot)  Vanessa annabella (West Coast Lady)  Vanessa atalanta (Red Admiral)  Vanessa cardui (Painted Lady)

1-951-686-1497

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# Quino Checkerspot Survey Form

## **Adult Assessment**

Surveyor 500	· Powell	Date 4/1/16	Site Visit 1	Number5_
Site Name	Ma & S	Site Location	Mva	war
Total Acres:	Total Acres Surveyed	: Elevati	on: Max	Min
Hours Surveyed:	3'00"			

Time (24hr)		Sky	∌:	Wind (aver*/max)	Temp (F)
1030	clear	% cloud cover	hazy	(3	64.0
(100)	clear	% cloud cover	hazy	2 4	400
(2000)	clear	% cloud cover	hazy	3/4	37.10°
(CAM)	clear	% cloud cover	hazy	SIT	710
1350	clear	% cloud cover	hazy	5/7	7.25
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph

Dale A Powell

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Nymphalidae (I	Brush Footed Butterflies)	Lycaenidae (I	
	Euphydryas editha quino (Quino Checkerspot)	11	Brephidium exilis (Pygmy Blue)
- 7	Adelpha bredowii californica (California Sister)	W-110-100-100-100-100-100-100-100-100-10	Celastrina ladon echo (Echo Blue)
111	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	1	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia saturus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (	Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
[1]	Vanessa annabella (West Coast Lady)	(1)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	157	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	1	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)		
		Papilionidae	(Swallowtails)
anaidae (Milk	weed Butterflies)		Papilio eurymedon (Pale Swallowtail)
CHILDRENG 1111111	Danaus gilippus (Queen)	23.3	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	1 1	Papilio zelicaon (Anise Swallowtail)
		3	
Tesperidae		Dieridae (Wh	ites and Orangetips)
iosperidae	Erynnis funeralis (Funeral Dusky-wing)	Trottone (W.D.	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
111	Hylephila phyleus (Fiery Skipper)	Light	Anthocharis sara (Sara Orangetip)
3	Pyrgus albescens (Checkered Skipper)	1	Artogeia rapae (Cabbage White)
-	1 // gas sizeners (Choricaed Shipper)	- <del></del>	Colias eurytheme (Alfalfa Butterfly)
	A PART OF THE PART		Colias harfordii (Harford's Sulfur)
	Control of the Contro		Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
	Land His Association (I have a land a second and a second a second and		Nathalis iole (Dwarf Yellow)
			Phoebis sennae (Cloudless sulfur)
			Pontia protodice (Common White)
-			Zerene eurydice (California Dogface)
			Zevene euryance (Camorina Doginaco)
*****	erania de la composição d	Riodinidae (f	Metalmarks)
	THE POST OFFICE AND ADDRESS OF THE POST OF	111	Apodemia mormo virgulti (Behr's Metalmark)
	- massassa , , , , , , , , , , , , , , , ,	7411	Calephelis wrighti (Wright's Metalmark)
	- CONTRACTOR OF THE PROPERTY O		Comprise the State of the State
-	The second of th	Satyridae (Sa	atvrids)
			Coenonympha californica (California Ringlet)
			Country mp in Carry or most (Carry or ma King ice)
THER:	3484		100.00
THEK:			Company of the Compan
	· · · · · · · · · · · · · · · · · · ·	-	

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## Quino Checkerspot Survey Form

## **Adult Assessment**

Surveyor	Son 1	Famell	Date	4/1/16	-	Number <u>S</u>	
Site Name	MARE	6	Site	eLocation _	$\mathcal{M}$	120 mint	
Total Acres:	To	al Acres Sur	veyed:	Elevat	ion: Max	Min	
Hours Survey	ed: 451						

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1345	∢[ear]	% cloud cover	hazy	5/8	
1130	eteár	% cloud cover	hazy	17.	454
V. V	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
****	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nector sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph



Nymphalidae (Brush Footed Butterflies)	Lycaenidae (Blues)
Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Bluc)
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
(Chalcedon Checkerspot)	
Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
(Henne's Checkerspot)	
Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
Phycoides mylitta (Mylitta Crescent)	
Polygonia satyrus (Satyr Anglewing)	
Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
Vanessa virginiensis (Virginia Lady)	- Application
9 ( )	
and the second s	Papilionidae (Swallowtails)
Danaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
Danaus plexippus (Monarch).	Papilio zelicaon (Anise Swallowtail)
Lossaridas	Pieridae (Whites and Orangetips)
Hesperidae  Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
Tyrgus andestens (Checkered Skipper)	Colias eurytheme (Alfalfa Butterfly)
	Colias harfordii (Harford's Sulfur)
	Euchloe hyantis lotta (Southern Marble)
waters in the second of the se	Eurema nicippe (Sleepy Orange)
	Nathalis iole (Dwarf Yellow)
The state of the s	Phoebis sennae (Cloudless sulfur)
	Pontia protodice (Common White)
	Zerene eurydice (California Dogface)
	Riodinidae (Metalmarks)
	Apodemia mormo virgulti (Behr's Metalmark)
	Calephelis wrighti (Wright's Metalmark)
	Satyridae (Satyrids)
The state of the s	Coenonympha californica (California Ringlet)
OTHER.	
OTHER:	
OTHER:	
OTHER:	

# 79

## **Quino Checkerspot Survey Form**

### **Adult Assessment**

Surveyor	Jun	Pawell			3/29/16	Site Visit	Number _	5
Site Name	TASO	4 +5		_ Site	Location	Mira	vie Of	ثـــــــــــــــــــــــــــــــــــــ
Total Acres:		Total Acres S	Surveyed		Elevatio	n: Max	Min_	
Hours Surveyed	: 21	124			₹*			

Time (24hr)	Sky	(a)	Wind (aver*/max)	Temp (F)
35,43	clear 15 % cloud cover	hazy	4/6	720
1.00	clear 20 % cloud cover	hazy	5/8	70°
1900	clear 5% cloud cover	hazy	417	690
15AF	clear %<% cloud cover	hazy	518	600
. 5.3.7	clear 40% cloud cover	hazy	sia	67°
	clear % cloud cover	hazy		1 100 100
	clear % cloud cover	hazy		uminimum rene
	clear % cloud cover	hazy	*	
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		2 2 2
	clear % cloud cover	hazy		4.700.00.00.00.00.00.00
	clear % cloud cover	hazy		The state of the s
7	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago eresta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph





Nymphalidae (	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Bluc)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
1	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	· · · · · · · · · · · · · · · · · · ·
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
1	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
	1 and the second	Papilionidae (Swallowtails)
Danaidae (Mill	kweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Hesperidae		Pieridae (Whites and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
111	Hylephila phyleus (Ficry Skipper)	Anthocharis sara (Sara Orangetip)
5.28	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
Winner-Call San	On the second se	Zerene eurydice (California Dogface)
		Riodinidae (Metalmarks)
	A CONTRACT TRACE CONTRACT TO THE PARTY OF TH	Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		Satyridae (Satyrids)
	er i jeda kom aktika kitar alimanak kan mala kan ba	Coenonympha californica (California Ringlet)
		Coenonympna canyornica (Cantonna Raigiet)
OTHER:	A consider the constitution of the constitutio	

Location	SAN VICER	TTE RES.	SUM DIEVO	RIVER	ALE Survey Segmen	nt SURVEY	ALEA (8)	,
Surveyor	ans	CHATMAT		Date	04 APR 2016 S	urvey Week Nu	imber (6)	
Survey Pa	rtner(s)							
Total Acre	es.	Portion Surve	eved:		Elevation	ı· Max	Min	

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start 10:00	9	clear patchy overcast drizzle show	er 3-5 ma	76° F
11:00	0	clear) patchy overcast drizzle show	er 3-6 men	790E
12:00	0	clear patchy overcast drizzle show	er 3-6 mm	81°F
13:00	-6	clear patchy overcast drizzle show	er 4-6mm	83° F
14:00	0	clear patchy overcast drizzle show	er 47 mer	84°F
15:00	0	clear patchy overcast drizzle show	er 3-bnpc	83°F
Stop 16:45	-6	clear patchy overcast drizzle show	er 4-6 mm	80°F

Habitat onsite (circle as applicable) hillton ridges rock outcrops open soils soil crusts clay soils old roads Plantago, Castilleja Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		- Section II	Leptotes marina (Marine Blue)	2	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)	2		Apodemia mormo (Mormon Metalmark)	8	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	3		Papilio eurymedon (Pale Swallowtail)		*
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangelip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	20	*
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	6	*
Hesperidae			Colias eurytheme (Orange Sulphur)		+
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		=
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: Nathalis iole	17	
Erynnis propertius (Propertius Duskywing)			( Paints - Sulphur)		
Ochlodes agricola (Rural Skipper)			1		
Lycaenidae (Hairstreaks)			OTHERS: Nathalis iole (Painty sulphur)  Legodea entala (Euphala skipper)	1	
Atlides halesus (Great Purple Hairstreak)			(Emphala skiner)		
Incisalia augustinus (Western Brown Elfin)			11 //		
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor	NAT (	HATMAN	Segment	#_SUNCEY	AFEA (8)	_Date:	APRIL LOW
Comments:							
					W.		
***	-						
					1111		
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			*	-			
Plant Commun	ities a	nd Habitat Info	ormation:				
		0/ /		C 1.11			•
Host Plants Pr	esent:	Plant	ago erects t	Castalle	eja exem	7	
		34.15		0			
		0, 1		<i>L</i> 1.1	, , ,	4 1 1 P	1.1
<b>Nectar Plants</b>	Presen	it: Bluedick	Ks , Cryptan	The Casti	nenis, pro	Lukeat, BI	acc-sage
		tiacelia					
☐ Quino Sigh	ting		Date:	GPS	S Location:		
			Date:	GPS	S Location:		
Photographs Ta			•	GPS			
Photographs Ta			2.	GPS	S Location:		
Photographs Ta			•	GPS	3 6		

Location	SOUTHERW	TREATMENT PL	HAT	Survey Segr	nent Survey	4164 (Y)
Surveyor	GREV	CHAMIN	Dat	te 05 1016	Survey Week	Number (6)
Survey Pa	rtner(s)			OS APR ZOIG		
Total Acre	es: P	ortion Surveyed:	V///	Elevat	ion: Max	Min

Time (24 hr)	% Cloud	1000	The second	Sky	e General	0000 1000	Wind (range)	Temp (F)
Start /0:00	HAZY	clear	patchy	overcast	drizzle	shower	Ð	700F
11:00	HARY	clear	patchy	overcast	drizzle	shower	0	740F
17:00	HARY	clear	patchy	overcast	drizzle	shower	1-2 mg	79°F
13:00	HAN	clear	patchy	overcast	drizzle	shower	Z-3yph	83°F
14:00	0	clear	patchy	overcast	drizzle	shower	2-44/2	84F
15:00	-8-	elear	patchy	overcast	drizzle	shower	2-dags	83° F
Stop 16:00	æ	clean	patchy	overcast	drizzle	shower	2-4 ugs	82°F

Habitat onsite (circle as applicable) hilliops ridges, rock outcrops open soils soil crusts viay soils, old roads Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	2	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	10	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	4		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		=-
Vanessa virginiensis (American Lady)		7	Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	8	4
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)	1	
Heliopetes ericetorum (Northern White-Skipper)	3		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)	1.0	
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	2	*	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycacnidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	1				
Glaucopsyche lygdamus (Southern Blue)	1				
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)				1	

Surveyor and CHAMMAN Segment # SULVEY AREA (4) Date: OT APRIL ZOIL Comments: Plant Communities and Habitat Information: Plantago erecta + Castilleja exerta **Host Plants Present:** Cryptantha, Lusthenia, Encelia, Blue-dicks, Buckahest, Salvis molifera, yerra smora **Nectar Plants Present:** GPS Location: ☐ Quino Sighting Date: Photographs Taken: 3. 2. 6. 5. 4. 9. 8. 7-12.

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Location	MISSION GORGE AREA	Date Ob Apr. 2016 Survey Week	3 APEA (7)
Surveyor	apel chaiman	Date OG APR 2016 Survey Week	Number (6)
Survey Partr	ner(s)		15
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud		whete	Sky		on one	Wind (range)	Temp (F)
Start 09:30	0	clear	patchy	overcast	drizzle	shower	1-2 uph	75°F
10:00	-8	Clear	patchy	overcast	drizzle	shower	1-2 mg	78°F
11:00	6	clear	patchy	overcast	drizzle	shower	2-4 mgs	800 =
12:00	0	clean	patchy	overcast	drizzle	shower	2-4 mg	83° F
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop /2:30	6	Clean	patchy	overcast	drizzle	shower	2-Mage	85°F

Habitat onsite (circle as applicable) (hilltops, ridges frock outcrops, open soils, soil crusts, stay soils old roads) Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- toppin
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	2	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		,	Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)	1	
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	12	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)	V.	
Junonia coenia (Common Buckeye)	Z	×	Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Rcd Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangelip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	12	o pr
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Dangus plexippus (Monarch)		•	Pontia protodice (Checkered White)	4	7
Hesperidae			Colias eurytheme (Orange Sulphur)	1	
Heliopetes ericetorum (Northern White-Skipper)	8	4	Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	T		Satyridae (Satyrids)		
Erynnis funeralis (Funcreal Duskywing)	1		Coenonympha californica (Common California Ringlet)	×	
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)	UN	Į.		1	
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	1	*			
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor Gran CHATMAN Segment # Suguet ALEA (7) Date: 06 APLIL ZOIL Comments: Plant Communities and Habitat Information: But Plantago erecta o Castilleja exeta **Host Plants Present:** Buckahest + Black-sage now blooming! **Nectar Plants Present: GPS Location:** ☐ Quino Sighting Date: Photographs Taken: 1. 2. 3. 6. 5. 4. 8. 9. 7-

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12.

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-	7.	
1	1	_:
- 1	-	
100 mm		

## **Quino Checkerspot Survey Form**

### **Adult Assessment**

Surveyor	Cala	Ruell	Date 🔠	116.	Site Visit ?	Number <u>6</u>
Site Name	M	01+2	Site Lo	cation	Mican	~1/
Total Acres:	y	Total Acres Surveye	d:	Elevati	on: Max	Min
Hours Survey	yed:					

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
(台东)	clear'	% cloud cover	hazy	215	60
じわり	clear	% cloud cover	hazy	7 1	75"
しんけつ	clear	% cloud cover	hazy	7-16	7
or in the	clear	% cloud cover	hazy	1 12	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
2814201-0	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla.

^{*20} second period, mph



	Brush Footed Butterflies)	Lycaenidae (	
	Euphydryas editha quino (Quino Checkerspot)	Jac. 1-1- 524.	Brephidium exilîs (Pygmy Blue)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	1)	Glaucopsyche lygdamus australis (Southern Blue
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)		Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)		Icarcia acmon (Acmon Blue)
1 -	Junonia coenia (Buckeye)	1,7700	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	<del></del>	Philotes sonorensis (Sonoran Bluc)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		Piebėjus metissa (ivietissa Biue)
	Polygonia satyrus (Satyr Anglewing)	<del></del>	with the second of the second
	Speyeria callippe (Callippe Fritillary)	T recognides (	(Hujaytanalea)
	Thessalia leanira wrighti (Leanira Checkerspot)	Lycaenidae (	
	Vanessa annabella (West Coast Lady)		Atlides halesus (Great Purple Hairstreak)  Callophyrs perplexa = dumetorum
			(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	i1	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	-	The second secon
S 21 25 2011		Papilionidae	(Swallowtails)
vanaidae (Milko	weed Butterflies)		Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
lesperidae		Pieridae (Wh	nites and Orangetips)
1.1.1	Erynnis funeralis (Funeral Dusky-wing)	1 toridae (WI	Anthocharis cethura (Felder's Orangetip)
- Arielania	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
3	Hylephila phyleus (Fiery Skipper)	11.	Anthocharis sara (Sara Orangetip)
*******	Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)
		T	Colias eurytheme (Alfaifa Butterfly)
		<del></del>	Colias harfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
9		1	Nathalis iole (Dwarf Yellow)
*********			Phoebis sennae (Cloudless sulfur)
		1 7	Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
		-	
		Riodinidae (1	
			Apodemia mormo virgulti (Behr's Metalmark)
	THE RESERVE OF THE PARTY OF THE	ļ	Calephelis wrighti (Wright's Metalmark)
conti-		Cotrada = 40	2.27
		Satyridae (Sa	
			Coenonympha californica (California Ringlet)
THER:			
		****	
	***************************************		
	780 Value		



Surveyor	Cale From !	Date 4/3/16	_ Site Visit	Number <u>6</u>
Site Name	Mr 3-	Site Location _	Micamo	r
Total Acres:	Total Acres Survey	ed: Elevati	ion: Max	Min
Hours Surveyed	d: 415			

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
1 7	clear % cloud cover	hazy	(1)	
	clear % cloud cover	hazy	37) 140	7.
1000	clear % cloud cover	hazy	2.751	74.4.7
1100	clear % cloud cover	hazy	7.5	in In
15	clear % cloud cover	hazy		5 - 7 r -
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

**COMMENT:** 

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Nymphalidae (I	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Bluc)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
:11	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
1132	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
*	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Vitginia Lady)	
		Papilionidae (Swallowtails)
Danaidae (Milk	tweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
A Districts Library	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Hesperidae		Pieridae (Whites and Orangetips)
11	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
Ţ	Hylephila phyleus (Fiery Skipper)	Wil Lift:   Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
	1000	Zerene eurydice (California Dogface)
		Riodinjdae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
	The state of the s	G. 1.70 . 1.15
	- Name - Company	Satyridae (Satyrids)
ar Salik ar	The second secon	Coenonympha californica (California Ringlet)
OTHER:		
27 27		

p.3

Surveyor Do	Le Pour !	Date 4			> -
Site Name \(\lambda\)	Mas H+	100 - 100	ocation // / / / /		12
Total Acres:	Total Acres Sur	veyed:	Elevation: Max	Min	
Hours Surveyed:	7/15/	2 MMS =		A Section 1	- 6

Washington Committee					
Time (24hr)		Sky S	Want over man	Temp (F)	
0915	clear	% cloud cover hazy	6/5	62°	
4.6.	. člear	% cloud cover hazy		73. 3, 1 0.	
67.4	clear	% cloud cover hazy	~~ C'10.	- 55 7 "	
17.5 x 1	clear)	% cloud cover hazy	113	-13°	
1, A D.	clear	% cloud cover hazy	2'4	201	
3775,7, 1	clear	%-cloud cover hazy	1 1/2	790	
- Ç, ex - 3	olear	% cloud cover hazy			
	clear)	% cloud cover hazy			
25	clear	%-cloud cover hazy			
1 2 2 4 1	clear	% cloud cover hazy	4 3 3 4 4	. 1.12	
Sign of the	clear	% cloud cover hazy	and the state of the	(2.21)	
	clear	% cloud cover hazy			
12 1 40 141 141	clear	% cloud cover hazy		Sala Wo e	

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

Part Francisco

1-951-686-1497



	c (British Footed Butter Ries)	Laycaemdac (Blues)
	Taphyaryas cauna quine (Capa) Checkershot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspor)	
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	The state of the s
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Eycacnidae (Hanstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
į.	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
6.2		(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strumon making (Grown Ellin)
	Vanessa virginiensis (Virginia Ledy)	Strymon melinus (Gray Hairstreak)
		<del></del>
		- Print March 1985 1985 1985 1985 1985 1985 1985 1985
anaidae (Mi	deweed Butterfless	Profitotistac (Swallowtails)
	Danaus gilippus (Queen)	- aparo carymedon (Tale Dwallowiall)
	Danaus plexippus (Monarch)	Papilio rutulus (Western Tiger Swallowtail)
	The second secon	Papilio zelicaon (Anise Swallowtail)
Y	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper)	Anthocharis cethura (Felder's Orangetin)
esperidae /	Erynnis funeralis (Funeral Dusky-wing)	Pietica: (Whites and Orangeins):  Anthocharis cethura (Felder's Orangein)
esperidae //	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)
<u> </u>	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)
<u> </u>	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)
<u> </u>	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip) Anthocharis Ianceolata (Grianell's Marble) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)
<u> </u>	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)
<u> </u>	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)
<u> </u>	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)  Satyridae (Satyrids)  Coenonympha californica (California Ringlet)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grianell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)  Satyridae (Satyrids)  Coenonympha californica (California Ringlet)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis cethura (Felder's Orangetip) Anthocharis Ianceolata (Grianell's Marble) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)  Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)  Satyridae (Satyrids)  Coenonympha californica (California Ringlet)

(76)

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Surveyor D	fam.	Date 💆 🗧	Site Visit	the state of the s
Site Name []	165	Site Locati		
Total Acres:	Total Acres Survey	/ed: El	evation: Max	Min
Hours Surveyed: 2.	30%	n eer eer		

Fine (24hr)	ilili	i ský i i		Wind	Temp (F)
00.00	clear !	% cloud cover	hazy	~^^	17
Inc	clear /	; % cloud cover	hazy)	0.50	* * * * * * *
grand Art. Art.	clear	% cloud cover-	hazy		. 77
	clear	% cloud cover	hazy	11	1000
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	clear	% cloud cover	hazy		
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5 III 3 (40)	clear	% cloud cover	hazy		A STATE OF
*** ** * * * * * * * * * * * * * * * *	clear	% cloud cover	hazy	ent e estelle et	. 3234 274
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. ne i	clear	% cloud cover	hazy	401 - 301 300	*******
	clear	% cloud cover	hazy	- two	7 7

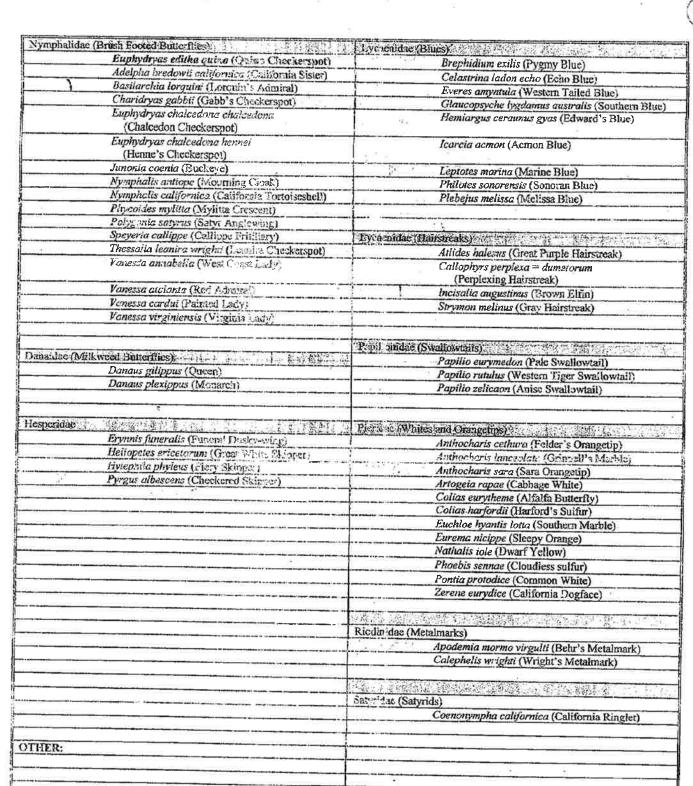
Habitat onsite: open soils, hilltops, ridges, rock outgrops, soil crusts, clay soils, old roads, nectar sources

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GE WHELE DISCUSSION SHOWS ASSESSED.

Plantago erecta, Plantago patagonica. Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



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76)



Surveyor	Jun Parel	Date 4/3/14	Site Visit	Number 6
Site Name	Mag3	_ Site Location _	Myzas	4 - 10"
Total Acres:	Total Acres Surveyed	Elevati	on: Max	Min
Hours Surveyed:	7/51			

Time (24hr)		Sky	e e	Wind (aver*/max)	Temp (F)
1000	clear	% cloud cover	hazy	3/5	670
1100	clear	% cloud cover	hazy	3//	778
10.700	clear	% cloud cover	hazy	= 14	750
- S. S. C.	clear	% cloud cover	hazy	dig	737
n seeps	clear	% cloud cover	hazy	3/4	75
# K 3/3	clear	% cloud cover	hazy	3/6	770
* **	clear	% cloud cover	hazy	3/5	710
15	clear	% cloud cover	hazy	3/5	740
200	clear	% cloud cover	hazy		Company Company
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



ush Footed Butterflies)  Euphydryas editha quino (Quino Checkerspot)  Adelpha bredowii californica (California Sister)  Basilarchia lorquini (Lorquin's Admiral)  Charidryas gabbii (Gabb's Checkerspot)  Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)  Euphydryas chalcedona hennei (Henne's Checkerspot)  Junonia coenia (Buckeye)  Nymphalis antiope (Mourning Cloak)  Nymphalis californica (California Tortoiseshell)  Phycoides mylitta (Mylitta Crescent)  Polygonia satyrus (Satyr Anglewing)  Speyeria callippe (Callippe Fritillary)  Thessalia leanira wrighti (Leanira Checkerspot)  Vanessa annabella (West Coast Lady)	Brephidium exilis (Pygmy Blue)  Celastrina ladon echo (Echo Blue)  Everes amyntula (Western Tailed Blue)  Glaucopsyche lygdamus australis (Southern Blue)  Hemiargus ceraunus gyas (Edward's Blue)  Icarcia acmon (Acmon Blue)  Leptotes marina (Marine Blue)  Philotes sonorensis (Sonoran Blue)  Plebejus melissa (Melissa Blue)  Lycaenidae (Hairstreaks)  Atlides halesus (Great Purple Hairstreak)  Callophyrs perplexa = dumetorum
Basilarchia lorquini (Lorquin's Admiral) Charidryas gabbii (Gabb's Checkerspot) Euphydryas chalcedona chalcedona (Chalcedon Checkerspot) Euphydryas chalcedona hennei (Henne's Checkerspot) Junonia coenia (Buckeye) Nymphalis antiope (Mourning Cloak) Nymphalis californica (California Tortoiseshell) Phycoides mylitta (Mylitta Crescent) Polygonia satyrus (Satyr Anglewing) Speyeria callippe (Callippe Fritillary) Thessalia leanira wrighti (Leanira Checkerspot)	Everes amyntula (Western Tailed Blue) Glaucopsyche lygdamus australis (Southern Blue) Hemiargus ceraunus gyas (Edward's Blue)  Icarcia acmon (Acmon Blue)  Leptotes marina (Marine Blue) Philotes sonorensis (Sonoran Blue) Plebejus melissa (Melissa Blue)  Lycaenidae (Hairstreaks)  Atlides halesus (Great Purple Hairstreak)
Charidryas gabbii (Gabb's Checkerspot)  Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)  Euphydryas chalcedona hennei (Henne's Checkerspot)  Junonia coenia (Buckeye)  Nymphalis antiope (Mourning Cloak)  Nymphalis californica (California Tortoiseshell)  Phycoides mylitta (Mylitta Crescent)  Polygonia satyrus (Satyr Anglewing)  Speyeria callippe (Callippe Fritillary)  Thessalia leanira wrighti (Leanira Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)  Hemiargus ceraunus gyas (Edward's Blue)  Icarcia acmon (Acmon Blue)  Leptotes marina (Marine Blue)  Philotes sonorensis (Sonoran Blue)  Plebejus melissa (Melissa Blue)  Lycaenidae (Hairstreaks)  Atlides halesus (Great Purple Hairstreak)
Euphydryas chaicedona chaicedona (Chalcedon Checkerspot)  Euphydryas chaicedona hennei (Henne's Checkerspot)  Junonia coenia (Buckeye)  Nymphalis antiope (Mourning Cloak)  Nymphalis californica (California Tortoiseshell)  Phycoides mylitta (Mylitta Crescent)  Polygonia satyrus (Satyr Anglewing)  Speyeria callippe (Callippe Fritillary)  Thessalia leanira wrighti (Leanira Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)  Icarcia acmon (Acmon Blue)  Leptotes marina (Marine Blue)  Philotes sonorensis (Sonoran Blue)  Plebejus melissa (Melissa Blue)  Lycaenidae (Hairstreaks)  Atlides halesus (Great Purple Hairstreak)
(Chalcedon Checkerspot)  Euphydryas chalcedona hennei (Henne's Checkerspot)  Junonia coenia (Buckeye)  Nymphalis antiope (Mourning Cloak)  Nymphalis californica (California Tortoiseshell)  Phycoides mylitta (Mylitta Crescent)  Polygonia satyrus (Satyr Anglewing)  Speyeria callippe (Callippe Fritillary)  Thessalia leanira wrighti (Leanira Checkerspot)	Leptotes marina (Marine Blue)  Philotes sonorensis (Sonoran Blue)  Plebejus melissa (Melissa Blue)  Lycaenidae (Hairstreaks)  Atlides halesus (Great Purple Hairstreak)
Euphydryas chalcedona hennei (Henne's Checkerspot)  Junonia coenia (Buckeye)  Nymphalis antiope (Mourning Cloak)  Nymphalis californica (California Tortoiseshell)  Phycoides mylitta (Mylitta Crescent)  Polygonia satyrus (Satyr Anglewing)  Speyeria callippe (Callippe Fritillary)  Thessalia leanira wrighti (Leanira Checkerspot)	Leptotes marina (Marine Blue)  Philotes sonorensis (Sonoran Blue)  Plebejus melissa (Melissa Blue)  Lycaenidae (Hairstreaks)  Atlides halesus (Great Purple Hairstreak)
(Henne's Checkerspot)  Junonia coenia (Buckeye)  Nymphalis antiope (Mourning Cloak)  Nymphalis californica (California Tortoiseshell)  Phycoides mylitta (Mylitta Crescent)  Polygonia satyrus (Satyr Anglewing)  Speyeria callippe (Callippe Fritillary)  Thessalia leanira wrighti (Leanira Checkerspot)	Leptotes marina (Marine Blue)  Philotes sonorensis (Sonoran Blue)  Plebejus melissa (Melissa Blue)  Lycaenidae (Hairstreaks)  Atlides halesus (Great Purple Hairstreak)
Junonia coenia (Buckeye)  Nymphalis antiope (Mourning Cloak)  Nymphalis californica (California Tortoiseshell)  Phycoides mylitta (Mylitta Crescent)  Polygonia satyrus (Satyr Anglewing)  Speyeria callippe (Callippe Fritillary)  Thessalia leanira wrighti (Leanira Checkerspot)	Philotes sonorensis (Sonoran Blue)  Plebejus melissa (Melissa Blue)  Lycaenidae (Hairstreaks)  Atlides halesus (Great Purple Hairstreak)
Nymphalis antiope (Mourning Cloak)  Nymphalis californica (California Tortoiseshell)  Phycoides mylitta (Mylitta Crescent)  Polygonia satyrus (Satyr Anglewing)  Speyeria callippe (Callippe Fritillary)  Thessalia leanira wrighti (Leanira Checkerspot)	Philotes sonorensis (Sonoran Blue)  Plebejus melissa (Melissa Blue)  Lycaenidae (Hairstreaks)  Atlides halesus (Great Purple Hairstreak)
Nymphalis californica (California Tortoiseshell) Phycoides mylitta (Mylitta Crescent) Polygonia satyrus (Satyr Anglewing) Speyeria callippe (Callippe Fritillary) Thessalia leanira wrighti (Leanira Checkerspot)	Plebejus melissa (Melissa Blue)  Lycaenidae (Hairstreaks)  Atlides halesus (Great Purple Hairstreak)
Nymphalis californica (California Tortoiseshell) Phycoides mylitta (Mylitta Crescent) Polygonia satyrus (Satyr Anglewing) Speyeria callippe (Callippe Fritillary) Thessalia leanira wrighti (Leanira Checkerspot)	Lycaenidae (Hairstreaks)  Atlides halesus (Great Purple Hairstreak)
Polygonia satyrus (Satyr Anglewing) Speyeria callippe (Callippe Fritillary) Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Polygonia satyrus (Satyr Anglewing) Speyeria callippe (Callippe Fritillary) Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Speyeria callippe (Callippe Fritillary) Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Thessalia leanira wrighti (Leanira Checkerspot)	
	Callophus paralora = dunatorum
	(Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Strymon melinus (Gray Hairstreak)
	Papilionidae (Swallowtails)
eed Butterflies)	Papilio eurymedon (Pale Swallowtail)
Danaus allinnus (Oucen)	Papilio rutulus (Western Tiger Swallowtail)
	Papilio zelicaon (Anise Swallowtail)
The state of the s	Pieridae (Whites and Orangetips)
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Anthocharis lanceolata (Grinnell's Marble)
	Anthocharis sara (Sara Orangetip)
	Artogeia rapae (Cabbage White)
	Colias eurytheme (Alfalfa Butterfly)
7	Colias harfordii (Harford's Sulfur)
	Euchioe hyantis lotta (Southern Marble)
50 10 10 10 10 10 10 10 10 10 10 10 10 10	Eurema nicippe (Sleepy Orange)
TO COMPANY THE PROPERTY OF THE	Nathalis iole (Dwarf Yellow)
	Phoebis sennae (Cloudless sulfur)
	Pontia protodice (Common White)
	Zerene eurydice (California Dogface)
The restriction of the second section is a second section of the second section of the second section is a second section of the section of the second section of the second section of the second section of the section of the second section of the sec	Riodinidae (Metalmarks)
	Apodemia mormo virgulti (Behr's Metalmark)
- Marie Committee Committe	Calephelis wrighti (Wright's Metalmark)
	Seturidas (Seturida)
	Satyridae (Satyrids)  Coenonympha californica (California Ringlet)
1140 At 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Coenonympha canyornica (California Ringlet)
7	
	Vanessa cardui (Painted Lady)  Vanessa virginiensis (Virginia Lady)  eed Butterflies)  Danaus gilippus (Queen)  Danaus plexippus (Monarch)  Erynnis funeralis (Funeral Dusky-wing)  Heliopetes ericatorum (Great White Skipper)  Hylephila phyleus (Fiery Skipper)  Pyrgus albescens (Checkered Skipper)

p.6

Surveyor	La Carrell	Date	Site Visit N	lumber.
Site Name	In Comment	Site L	ocation Adversar	
Total Acres:	Total Acres Surveyo	ed:	Elevation: Max	Min
Hours Surveyed:	7/151		F3 1 1 1 1 1 1 1 2 2	

			- 10° 2° 11 3°			
-Time (24m)		Sky	Wibil 1	Tèmp (F)		
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1 R P+ 0 -	clear	% cloud cover hazy	17.3	マロッ		
13 10 51	Clear	% cloud cover hazy -	1-27	740		
	clear	% cloud cover hazy	1.3.	7.A°		
I AL	ćlear	% cloud cover hazy	2/4	20		
26A	Clean	% cloud cover hazy	3/6	700		
	ctear	% cloud cover hazy	14/6	787		
	clear	% cloud cover hazy	317	210		
Annear Committee	clean	% cloud cover hazy-	314			
	clear	% cloud cover hazy	10000			
3 1	clear	% cloud cover hazy				
	-clear	% cloud cover hazy	selevate milet is a set	esament in an in sec		
1 1915-9	clear	% cloud cover hazy				

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhimum coulterianum, Collinsia heterophylla

*20 second period, mph

COMMENT:

18)



	Brush Footer Butterfiles	Brenhidium critis (Pyonny Blue)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygrny Blue)  Celastrina ladon echo (Echo Blue)
	Adelpha bredowii californica (California Sister)	( ar ( ar 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Basilarchia-lorquini (Lorquin's Admirai)	Glaucopsyche lygdamus australis (Southern Biue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche tygaamus dustratus (Soudierii Bido)
*****	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
1112	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
IH	Nymphalis antiope (Mourning Clocky	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia saryrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	f) caemidae (Harsworks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Thessand teamira wright (Leaning Checkerspot)	Callophyrs perplexa = dumetorum
الحديدة	Vanessa annabella (West Coast Lacy)	(Perplexing Hairstreak)
HT 11	Tr. 11 to 70 of Admitted N	Incisalia augustimus (Brown Elfin)
	Vanessa atalanta (Red Admiral)	Strymon melinus (Gray Hairstreak)
	Vanessa cardui (Painted Lady)	1 34 Sulymon meaning (Only Limited Prop)
	Vanessa virginiensis (Virginia Lady)	
		Papiliondae (Swallowaids)
Sanidas (AGI	kweet Bancrities).	Pantlio eurymedon (Pale Swallowtail)
Janaidae (1914)	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus gluppus (Queen)  Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
	Danaus pieruppus (Wodalcii)	
		Design a Mark on the Property of the North Conference
lesperidae	「「」は、「は、「は、」と、「」 「「」 「「」とは数数11 L	Pierikar (Whites and Orangeops)
7.7	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
HT II	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
IIII	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
900 St. 12 - 20		Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		GEO STATE OF THE S
		Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		Mark out 1800 broad transfer of the Allie of
	- January	
	the same of the sa	Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
		4.44.44.44.44.44.44.44.44.44.44.44.44.4
OTHER:		



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a energy date in the		SS and SS Section in		31.76 E. 18 E.
Surveyor	un famill	Date _t/	5 6 Site Visit N	lumber 5
Site Name	Mars.	Site Lo	ocation All consent	
Total Acres:	Total Acres Surve	yed:	Elevation: Max	Min
Hours Surveyed:	7/3/1	0.000	The second property	

		1	engerschied DE sett and			
Time (24hr)			Wahil (aver-max)	Finp (F)		
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000	clear	0 % cloud cover hazy	" " C/C	Company of		
1100)	clear	% cloud cover hazy	- 7 4	3/2"		
(130)	clear	% cloud cover hazy		17.5		
40 K 00	clear	% cloud cover hazy	A A geol at a	.85 101		
	clear	% cloud cover hazy	10-110-1	A 10.000		
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	clear	% cloud cover hazy	iner a company	KIE		
AND THE RESIDENCE	clear	% cloud cover hazy	er i mer ere ere ek	(a) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b		
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	clear	% cloud cover hazy	THE MORPHY STATE OF	વ્યુક્તિક તે ,		
2 10 2 1 <del>-1</del> 2 X 10	clear	% cloud cover hazy				
	clear	% cloud cover hazy				

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica. Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

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*20 second period, mph

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			PROPERTY OF CHARLES AND
	Euphydryas editha quino (Quino Checkerspot)		es) Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia-lorquini (Lorquin's Admiral)	T	Everes amyntula (Western Tailed Blue)
H	Charidryas gabbii (Gabb's Checkerspot)	1	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	*	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	4.	Yyoung Bus oo! an in all and a fact of the
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
		34 Jan 1997	Total Cital Goldon (1 totalon 25-00)
	(Henne's Checkerspot)		Leptotes marina (Marine Blue)
	Junonia coenia (Buckeye)		
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)		
110000000000000000000000000000000000000	Speyeria callippe (Callippe Fritillary)	Eyeut nidae (Ha	instreaks) (1997)
	Thessalia leanira wrighti (Leanisa Checkerspot)	1000 100 1	Atlides halesus (Great Purple Hairstreak)
	Vanessà annabella (West Coast Lady)	4	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	JH.	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)		Strymon melīnus (Gray Hairstreak)
	Vanessa virginiensis (Virginie Lady)		
	, and the property of a state many		
_		Parieti di di di di	vallowards) (CEV 17 12 12 12 12 12 12 12 12 12 12 12 12 12
Danaidae Ox	Elkweed Butterflies)		Papilio eurymedon (Pale Swallowtail)
Dana Gao (14	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
			Papilio zelicaon (Anise Swallowtail)
	Danaus plexippus (Monarch)		Papitto zeticuon (Anisc Swanowiati)
		- A	
	Heliopetes ericetorum (Great White Skipper)  Hylephila phyleus (Fiory Skipper)	. 1012 state stars	Anthocharis lanceolata (Grinnell's Marble)  Anthocharis sara (Sara Orangetip)
	Hulenhila nimiene (Frenc Skroreer)	HAT HAT HAT	Anthocharis sara (Sara Urangetin)
		- Fr. C.	
	Pyrgus albescens (Checkered Skipper)	F. 4 2.1.	Artogeia rapae (Cabbage White)
		By an au	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)
			Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)
		1	Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble)
			Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)
			Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble)
			Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)
			Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow)
			Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)
		11.1	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)
			Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)
		Riodinidae (Met	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)
			Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia mormo virgulti (Behr's Metalmark)
		Riodinidae (Met	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)
		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia morma virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia morma virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia morma virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
OTHED		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
OTHER:		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
OTHER:		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
OTHER:		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
OTHER:		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
OTHER:		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
OTHER:		Riodinidae (Me	Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)  Pontia protodice (Common White)  Zerene eurydice (California Dogface)  talmarks)  Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)

Location 542	VICENTE RES.	SIN SEETO	RIVER ALEA Survey	Segment	SURVEJA	164 (8	2)
Surveyor	OB CHAMMA	N	Date 13 APR	2016Sur	vey Week N	umber (	7)
Survey Partner(s)			S			-	
Total Acres:	Portion Sur	veyed:	E	Elevation: N	Max	Min	20

Time (24 hr)	% Cloud	Helps Topic Committee	Sky	desi	1000	Wind (range)	Temp (F)
Start 10:00	0	clear patchy	overcast	drizzle	shower	7-4 mg/m	67° F
11:00	0	clear patchy	overcast	drizzle	shower	ZYah	7100
12:00	-0-	clear patchy	overcast	drizzle	shower	4-6 mm	75°P
13:00	4	clear patchy	overcast	drizzle	shower	4-6 ml	76° E
14:00	0	clear patchy	overcast	drizzle	shower	5-7 wh	76° 6
15:00	0	clear patchy	overcast	drizzle	shower	3-6mh	78°F
Stop /6:00		clear patchy		drizzle	shower	4-6 up	77°F

Habitat onsite (circle as applicable) hilltope ridges rock outcrops, open soils soil crusts clay soil old roads Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

	2	Leptotes marina (Marine Blue)  Philotes sonorensis (Sonoran Blue)  Plebejus melissa (Melissa Blue)  Everes amyntula (Western Tailed-Blue)  Brephidium exilis (Western Pygmy-Blue)  Riodinidae (Metalmarks)  Apodemia mormo (Mormon Metalmark)  Papilionidae (Swallowtails)  Papilio eurymedon (Pale Swallowtail)  Papilio rutulus (Western Tiger Swallowtail)	10+	topping
		Plebejus melissa (Melissa Bluc)  Everes amyntula (Western Tailed-Blue)  Brephidium exilis (Western Pygmy-Bluc)  Riodinidae (Metalmarks)  Apodemia mormo (Mormon Metalmark)  Papilionidae (Swallowtails)  Papilio eurymedon (Pale Swallowtail)	10+	
		Everes amyntula (Western Tailed-Blue) Brephidium exilis (Western Pygmy-Blue) Riodinidae (Metalmarks) Apodemia mormo (Mormon Metalmark) Papilionidae (Swallowtails) Papilio eurymedon (Pale Swallowtail)	10+	
	21	Brephidium exilis (Western Pygmy-Blue) Riodinidae (Metalmarks)  Apodemia mormo (Mormon Metalmark)  Papilionidae (Swallowtails)  Papilio eurymedon (Pale Swallowtail)	10+	
		Riodinidae (Metalmarks)  Apodemia mormo (Mormon Metalmark)  Papilionidae (Swallowtails)  Papilio eurymedon (Pale Swallowtail)	10+	
		Apodemia mormo (Mormon Metalmark)  Papilionidae (Swallowtails)  Papilio eurymedon (Pale Swallowtail)	10+	
		Papilionidae (Swallowtails)  Papilio eurymedon (Pale Swallowtail)	10+	
		Papilio eurymedon (Pale Swallowtail)	-	
		Papilio eurymedon (Pale Swallowtail)	-	
		Papilio rutulus (Western Tiger Swallowtail)	_	
		Papilio zelicaon (Anise Swallowtail)		
1 1		Picridae (Whites and Orangetips)		
		Anthocharis cethura (Desert Orangetip)		
		Anthocharis sara (Sara's Orangetip)	70+	X
		Pieris rapae (Cabbage White)		
		Pontia protodice (Checkered White)		×
		Colias eurytheme (Orange Sulphur)	2	
		Colias harfordii (Harford's Sulphur)		
2		Eurema nicippe (Sleepy Orange)		
		Satyridae (Satyrids)		
		Coenonympha californica (Common California Ringlet)		
		OTHERS:		
			-	
i.		"		
2				
	0			
			Anthocharis cethura (Desert Orangetip)  Anthocharis sara (Sara's Orangetip)  Pieris rapae (Cabbage White)  Pontia protodice (Checkered White)  Colias eurytheme (Orange Sulphur)  Colias harfordii (Harford's Sulphur)  Eurema nicippe (Sleepy Orange)  Satyridae (Satyrids)  Coenonympha californica (Common California Ringlet)  OTHERS:	Anthocharis cethura (Desert Orangetip)  Anthocharis sara (Sara's Orangetip)  Pieris rapae (Cabbage White)  Pontia protodice (Checkered White)  Colias eurytheme (Orange Sulphur)  Colias harfordii (Harford's Sulphur)  Eurema nicippe (Sleepy Orange)  Satyridae (Satyrids)  Coenonympha californica (Common California Ringlet)  OTHERS:

Surveyor Ges Charmon Segment # Syrvey ALCA (8) Date: 13 Apr 2016 **Comments:** Plant Communities and Habitat Information: Plantago erecta **Host Plants Present: Nectar Plants Present: GPS Location:** ☐ Quino Sighting Date: Photographs Taken: 2. 1. 6. 5. 4. 9. 8.

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Location South	TREAMONT FACILITY	Survey Segment FURNET AREA (4)
Surveyor ape	& CHAMMAN	Date 14 apr 2016 Survey Week Number (7)
Survey Partner(s)	340 Am 1920 - 1914	
Total Acres:	Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud	THE CAPE	Ský	Change	166	Wind (range)	Temp (F)
Start 9:30	0	clear patchy	overcast	drizzle	shower	1-2 mps	69° E
11:00	-0-	clear) patchy	overcast	drizzle	shower	1-2 mh	710 F
12:00	-0-	clear patchy	overcast	drizzle	shower	2-4 mh	72°F
13:00	-8-	clear patchy	overcast	drizzle	shower	Zyma	73°F
14:00	-0-	clear patchy	overcast	drizzle	shower	3-5 MM	740%
15:00	-0	clear patchy	overcast	drizzle	shower	4-6 mp	74ºF
Stop 15: 45	-0	clear patchy	overcast	drizzle	shower	4-7 m/	72º F

Habitat onsite (circle as applicable): hilltops, (tidges) rock outcrops, open soils soil crusts clay soils old roads Plantago, (Castillejo, Cordylanthus, Antirrhinum, nectar sources.)

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	4	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Bluc)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)	2		Apodemia mormo (Mormon Metalmark)	+10	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	8		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		4	Papilio zelicaon (Anise Swallowtail)	11	X
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)	2	X	Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	3	×
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidac			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Ficry Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: Cloudless sul Dhar		
Erynnis propertius (Proportius Duskywing)			( Phoebus Senuae)		
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Allides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)			Y		
Celastrina ladon (Echo Blue)					

Surveyor Last Charman	Segment	# SUMUEY AREA (4)	Date: 14 AM 2016
Comments:			
			•
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	ř.		
Plant Communities and Habita	at Information:		
			•
110,000			
- Heat			
	11 1 4	Castilleja exer	4
Host Plants Present:	lantago erecta T	Casiffieja Ever	
			No. of the last of
Nectar Plants Present:			
1			¥1
☐ Quino Sighting	Date:	GPS Location	1;
	•		
Photographs Taken:			-
1.	2.		3.
4.	5.		6.
7.	8.		9.
10.	11.	_	12.

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Location MISS	ON GORGE AREA	Survey Segment Summe	Y AREA (7)
Surveyor <u>a</u> Survey Partner(s)	RES-CHATM AN	Survey Segment 4 cunter  Date 15 man 2016 Survey Week	Number (7)
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	The Spe	Sky	t See	Com.	Wind (range)	Temp (F)
Start 10:00	0	clear patchy	overcast	drizzle	shower	1-2 up	72° 12
		clear patchy	overcast	drizzle	shower		
		clear patchy.	overcast	drizzle	shower		_
11:00	8	clear patchy	overcast	drizzle	shower	ZMM	7700
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
Stop / 2:00	0	clear patchy	overcast	drizzle	shower	2-4mh	79°F

Habitat onsite (circle as applicable) hilltops ridges tock outcrops, open soils soil crusts clay soils old roads Plantago, Castilleja, Oordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		The state of the s	Leptotes marina (Marine Blue)	3	100 P 10-1
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	+10	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	2		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Picridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	40	×
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	6	4
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)	2		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)	2		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)				1	

Surveyor Great Curamund	Segment #_Gullo	ALGA (7) Date: 13 MM LOUS	_
Comments:			$\dashv$
	N.		=
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a			
Plant Communities and Hab	itat Information:		
Host Plants Present:	antago erecta + Castilleja	eve As	
Host Plants Fresent.	antiago er cort y carrie que		
Nectar Plants Present:			
Treetar Trains			
☐ Quino Sighting	Date:	GPS Location:	
☐ Quino Sighting	<b>Date</b>		
Photographs Taken:			
1.	2.	3.	
4.	5.	6.	
7.	8.	9.	
10.	11.	12.	

(80)

## **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor 7	ble fourth	Date 4 /11/16	Site Visit I	Number <u>7</u>
Site Name	Map=1+2	Site Location	Water	a.du
Total Acres:	Total Acres Surveyed	Elevation	on: Max	Min
Hours Surveyed:	3100%		-	

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
10.15	clear 😂 % cloud cover	hazy	215	7,40
( j 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	clear 40 % cloud cover	hazy	314	7.9"
• *	clear 🦸 🤈 % cloud cover	hazy	925%	7.17
13 15	clear 🦙 % cloud cover	hazy	9 9	69
134	clear 🎌 % cloud cover	hazy		Sing.
	clear % cloud cover	hazy		:01
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy	1770010	
	clear % cloud cover	hazy		1300
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite; open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



Nymphalidae (E	Brush Footed Butterflies)	Lycaenidae (B	lues)
A	Euphydryas editha quino (Quino Checkerspot)	Lit. Cit	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		
<del></del>	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		The state of the s
3.1	Junonia coenia (Buckeye)	1111	Leptotes marina (Marine Blue)
1-	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Bluc)
	Phycoides mylitta (Mylitta Crescent)		to the second se
	Polygonia satyrus (Satyr Anglewing)		
1 10 10 10 10 10 10 10 10 10 10 10 10 10	Speyeria callippe (Callippe Fritillary)	Lycaenidae (F	
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)		Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)		
223000		Papilionidae (	Swallowtails)
Danaidae (Milk	cweed Butterflies)		Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	HEREN ZEAL ST	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
		Dispides (Milhi	ites and Orangetips)
Hesperidae	E Grant Grant Dudge wing)	Fictidae ( With	Anthocharis cethura (Felder's Orangetip)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
· · · · · · · · · · · · · · · · · · ·		<del></del>	Anthocharis sara (Sara Orangetip)
Mi	Hylephila phyleus (Fiery Skipper)	1111	Artogeia rapae (Cabbage White)
	Pyrgus albescens (Checkered Skipper)	1	Colias eurytheme (Alfalfa Butterfly)
	Committee of the Commit		Colias barfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
		<del></del>	Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
			Phoebis sennae (Cloudless sulfur)
		11	Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
		Riodinidae (N	
		JHT V	'Apodemia mormo virgulti (Behr's Metalmark)
			Calephelis wrighti (Wright's Metalmark)
	De territorio de la compansión de la compa	Satyridae (Sa	turids)
		Day mac (Da	Coenonympha californica (California Ringlet)
			Coenonympha vanjormea (Camorina Ringley)
OTHER:			
	cultivas mortus de sectores de como de		
	Security of the second security of the second secon		
			Ange America and an array of the second and array of the second ar

# (81

## **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	Dale Powell	Date 4/11/16	Site Visit l	Number 7
Site Name	Mass	_ Site Location _	Miran	50L
Total Acres:	Total Acres Surveyed	: Elevati	on: Max	Min
Hours Surveyed:	2451			

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1430	clear	% cloud cover	hazy	3/6	670
1500	clear	% cloud cover	hazy	4/6	690
12, -3	clear	% cloud cover	hazy	3/4	720
15	clear	% cloud cover	hazy	315	773
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	сleат	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
7	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		·

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph

Dale A Powell



Nymphalidae (I	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Westem Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	lcarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Bluc)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Bluc)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
•	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
1)	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
HI	Vanessa virginiensis (Virginia Lady)	
A.1.	,	Jane Branch and Control of the Contr
		Papilionidae (Swallowtails)
Danaidae (Mill	(weed Butterflies)	Papilio eurymedon (Pale Swallowtail)
D III III III	Dancus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Hesperidae	· · · · · · · · · · · · · · · · · · ·	Pieridae (Whites and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Hellopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
1)	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
1,	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
	**************************************	Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Slcopy Orange)
		Nathalis iole (Dwarf Yellow)
		Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
	A SECURITION OF THE SECURITION	1
		Riodinidae (Metalmarks)
	The state of the s	Apodemia mormo virgulti (Behr's Metalmark)
		* Calephelis wrighti (Wright's Motalmark)
	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Catualda (Catualda)
		Satyridae (Satyrids)
	e version and all the control	Coenonympha californica (California Ringlet)
OTHER:		
OTHEK:		
		1
ar experience	CARL TO THE TAXABLE T	I THE TOTAL THE TAX TH

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# **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Dale Pavell	Date 4/12/16	Site Visit	Number 7
Site Name	Mag	Site Location	Myza	una it
Total Acres:	Total Acres Surveyed:	Elevatio		Min
Hours Surveyed:	: 7'00"			

Time (24hr)	Sky	54	Wind (aver*/max)	Temp (F)
વઘડ	clear % cloud cover	hazy	nlr.	- 7
1 + 25.7	clear % cloud cover	hazy	$\cap$	1-0°
100	clear % cloud cover	hazy	1 7	7 -
	clear % cloud cover	hazy	N 1875	7
(10x1)	clear 🛴 % cloud cover	hazy		No. of Estimates
1500	clear % cloud cover	hazy	£   #:	5.17
1670	clear % cloud cover	hazy		115 a s
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
7M50-1/1014	clear % cloud cover	hazy	1	**************************************
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph



Nymphalidae (	(Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Bluc)
Live	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Bluc)
10	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia aemon (Acmon Blue)
	(Henne's Checkerspot)	` '
12.	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
_ 11.	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	100
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
113	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
- 11	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	Surprises (Ota) Halloward
	8 (3	<u> </u>
	TOTAL CONTRACTOR OF THE CONTRA	Papilionidae (Swallowtails)
anaidae (Mill	kweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
lesperidae		Pieridae (Whites and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	MI HI HI WAnthocharis sara (Sara Orangetip)
111	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
		The state of the s
		Eurema nicippe (Slccpy Orange) Nathalis iole (Dwarf Yellow)
		Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		Zerene euryaice (Cantonna Dograce)
		Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
		(Janonia Itilige)
THER;		· · · · · · · · · · · · · · · · · · ·
	3 co. 10 April 10 100 100 100 100 100 100 100 100 100	
······································		

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# **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	Jun	Paras 11		Date	4/11/16		it Number 🗦	<u> </u>
Site Name	W.	100		Site	Location_	Miras	mar.	
Total Acres:		Total Ac	es Surveyed	l:	Elevat	ion: Max _	Min_	
Hours Surveye	ed: _ 6	0011						

Time (24hr)	18	Sky		4	ind */max)	Temp (F)
TITE	clear 😓 🤊	6 cloud cover	hazy	2	1.5	70°
1200	clear 70 %	% cloud cover	hazy	3	16	700
500	clear 70 9	% cloud cover	hazy	3	15	743
1155		% cloud cover	hazy	2,	16	510
1 < 060	clear 🤼 🤋	6 cloud cover	hazy	ų	16	49.4
1500	clear (5) 9	% cloud cover	hazy	Ţ.	114	7.75
13.12	clear 25 9	% cloud cover	hazy	12	15	70°
1	clear 9	% cloud cover	hazy		1/25	
1 313	clear 9	% cloud cover	hazy			
	clear 9	% cloud cover	hazy			
	clear 9	% cloud cover	hazy			
	clear 9	% cloud cover	hazy			
	clear ⁹	% cloud cover	hazy			

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Gastilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



Nymphalidae (B	rush Footed Butterflies)	Lycaenidae (Bl	
	Euphydryas editha quino (Quino Checkerspot)		Brephidium exilis (Pygmy Bluc)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	1000	A COLOR DE LA COLO
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	-	The state of the s
(11	Junonia coenia (Buckeye)	111	Leptotes marina (Marine Blue)
1111	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		A STATE OF THE STA
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Ha	
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum
1161			(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)		Strymon melinus (Gray Hairstreak)
W	Vanessa virginiensis (Virginia Lady)		
	Section 4	D11114 (0	San Harabata
		Papilionidae (S	
Danaidae (Milky	veed Butterflies)		Papilio eurymedon (Pale Swallowtail) Papilio rutulus (Western Tiger Swallowtail)
	Danaus gilippus (Queen)		Papilio zelicaon (Anise Swallowiai)
	Danaus plexippus (Monarch)		Papitio zelicaon (Allise Swallowali)
lesperidae		Pieridae (White	es and Orangetips)
11	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis cethura (Felder's Orangetip)
11	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
1411	Hylephila phyleus (Fiery Skipper)	111	Anthocharis sara (Sara Orangetip)
111	Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)
		111	Colias eurytheme (Alfalfa Butterfly)
			Colias harfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
			Phoebis sennae (Cloudless sulfur)
200		1(1	Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
	The supersequence of the second second	Riodinidae (M	
		11 11	Apodemia mormo virgulti (Behr's Metalmark)
		3	Calephelis wrighti (Wright's Metalmark)
		Satyridae (Saty	vrids)
		)	Coenonympha californica (California Ringlet)
THER:	an yest of a second second second second second		
		-	

# (54)

# **Quino Checkerspot Survey Form**

# Adult Assessment

Surveyor	Jun	Panell	Date_	4/12/16	Site Visit	Number 7	_
Site Name	Max	3-4-5	Site	Location	Mira	perto	_
Total Acres:	Total 2	Acres Surveyed	ĺ:	Elevation	on: Max	Min	_
Hours Surveyed:	7'00"						

Time (24hr)	Sky	5	Wind (aver*/max)	Temp (F)
945	clear 60% cloud cover	hazy	7/0	27
COLL	clear 38 % cloud cover	hazy	0/0	5918°
1200	clear 15 % cloud cover	hazy	13	310
1300	clear 5 % cloud cover	hazy	in the sale	75°
[400	clear 5 % cloud cover	hazy	54	7.13
1500	clear 15 % cloud cover	hazy	5/2	1.50
1600	clear 🔗 % cloud cover	hazy	1977	133
1645	clear 🥠 👙 % cloud cover	hazy	315	
	clear % cloud cover	hazy	V.	
	clear % cloud cover	hazy		100000000000000000000000000000000000000
	clear % cloud cover	hazy	n 2	
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph



Timphanaac (1	Brush Footed Butterflies)	Lycaenidae (I	
	Euphydryas editha quino (Quino Checkerspot)	1111	Brephidium exilis (Pygmy Blue)
- 11	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorguini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
1-1000	(Chalcedon Checkerspot)		
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	1 155.2	To the Control of the Division
HT 1	Junonla coenia (Buckeye)	1111	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	4	KANDANIA AND AND AND AND AND AND AND AND AND AN
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (1	
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
Het i	Vanessa annabella (West Coast Lady)	146	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)		Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)		
	CHINA COLOR	Papilionidae	(Swallowtails)
Danaidae (Milk	weed Butterflies)		Papilio eurymedon (Pale Swallowtail)
A STATE OF THE PARTY OF THE PAR	Danaus gilippus (Queen)	1	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	<del>  </del>	Papilio zelicaon (Anise Swallowtail)
-lesperidae		Pieridae (Wh	ites and Orangetips)
resperience	Erynnis funeralis (Funeral Dusky-wing)	1 teriode ( n.i.	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
111	Hylephila phyleus (Fiery Skipper)	ואל ואל וואל	
11.1	Pyrgus albescens (Checkered Skipper)	KIII 4.11 3.11	Artogeia rapae (Cabbage White)
	1 yight dioesters (Checkered Skipper)		Colias eurytheme (Alfalfa Butterfly)
			Colias earymente (Antaria Butterity)  Colias harfordii (Harford's Sulfur)
	- Constraint - C		Euchloe hyantis lotta (Southern Marble)
	100000000000000000000000000000000000000		Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
	The state of the s	30.11	Phoebis sennae (Cloudless sulfur)
		177	Pontia protodice (Common White)
	······································	1.1.1.1	Zerene eurydice (California Dogface)
			zerene em yence (Cantonna Dograco)
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Riodinidae (N	Metalmarks\
		Kiodalidac (i	Apodemia mormo virgulti (Behr's Metalmark)
		1 4	Calephelis wrighti (Wright's Metalmark)
			The state of the s
		Satyridae (Sa	theride)
		Salyridae (Sa	Coenonympha californica (California Ringlet)
	,		Coenonympna canjurnica (Camonna Kinglet)
OTHER:			
			The same and the s

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# **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	Jun	Paurell	Date 4	13/16	Site Vişit	Number	7
Site Name	Ma	0.5	Site L	ocation	Wis	A wordy	
Total Acres:		Total Acres Surv	/eyed:	Elevation		Min	
Hours Survey	red: 6/3	201					

Time (24hr)	, ,	Sky		Wind (aver*/max)	Temp (F)
/o12 n	clear 7	∅ % cloud cover	hazy	5/1	57°
11:50	clear 🧸	> % cloud cover	hazy	185	
·3 :00	clear	% cloud cover	hazy	2/4	770
( e . ;	clear	% cloud cover	hazy	12 1 6	(4) p (4)
111:01	clear	% cloud cover	hazy	2/4	74
1 2 2 1	<u>ර</u> ව්ෂෘ	% cloud cover	hazy	1 3	760
15:30	clear	% cloud cover	hazy	1 1 7 7	3.5
	clear	% cloud cover	hazy		
35311	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago eresta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph



Nymphalidae (Brush Footed Butterflies)	Lycaenidae (Blues)
Euphydryas editha quino (Quino Checkerspot)	: , F -   (1) Brephidium exilis (Pygmy Blue)
[// Adelpha bredowli californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
(Chalcedon Checkerspot)	
Euphydryas chalcedona hennei	f   learcia aemon (Aemon Blue)
(Henne's Checkerspot)	
44 Junonia coenia (Buckeye)	! Leptotes marina (Marine Blue)
// Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Bluc)
Phycoides mylitta (Mylitta Crescent)	
Polygonia satyrus (Satyr Anglewing)	
Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
	(Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
Vanessa cardui (Painted Lady)	-   \\ Strymon melinus (Gray Hairstreak)
/ Vanessa virginiensis (Virginia Lady)	
	Papilionidae (Swallowtails)
Danaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swałlowtail)
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
- desperidae	Pieridae (Whites and Orangetips)
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
// Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
- 1777 gas stockers (Careeres Surper)	Colias eurytheme (Alfalfa Butterfly)
	Colias harfordii (Harford's Sulfur)
	Euchloe hyantis lotta (Southern Marble)
	Eurema nicippe (Sleepy Orange)
	Nathalis iole (Dwarf Yellow)
	Phoebis sennae (Cloudless sulfur)
THE THE TAXABLE PARTY OF THE PA	Pontia protodice (Common White)
Tomorrow to the state of the st	Zerene eurydice (California Dogface)
	Zevene car yare (Camorina Dograce)
	Riodinidae (Metalmarks)
	+ till Apodemia mormo virgulti (Behr's Metalmark)
	Calephelis wrighti (Wright's Metalmark)
	Satyridae (Satyrids)
The state of the s	Coenonympha californica (California Ringlet)
	Commission conformed (Cantonna ronges)
OTHER:	
7 H-1777-107	
The second secon	The state of the s

Location _	SAN VICENTE RES. SANDIEVO	Date 20 APRIL 2016 Survey Wee	VEY ALEA(8)
		Date ZO APRIL ZOKSurvey Wee	ek Number (8)
Survey Par	. /	Elevation, May	Min
Total Acres	s: Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	Sky	* Wind (range)	Temp (F)
Start 10:00	0	clear patchy overcast drizzle shower	2-4 uh	77° F
11:00	-2	clear patchy overcast drizzle shower	2-3 yr	RPR
12:00	0	clear patchy overcast drizzle shower	3-5 mm	85°R
13:00	0	clear patchy overcast drizzle shower	Zulfah	BJOR
14:00	0	clear patchy overcast drizzle shower	2-4 nm	89° p
15:00	2	Clear patchy overcast drizzle shower	3-6 gh	920F
Stop 16:00	0	clear patchy overcast drizzle shower	4-7m	88° P

Habitat onsite (circle as applicable): hilltops ridges, rock outcrops open soils soil crusts clay soils old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	HIII- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	2	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)	15	
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	5	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)	1	
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	+10	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor Got CHAMAN Segment # Suprog Alone (8) Date: 70 AM 7016

Comments:			2				
44	SHEN ON	MIG TOP	SECOND	BROOD	WINDING	DOWN	
- N	SAUB UM	LN.C.G.					
¥L.							
			3				
Plant Communities and	J Habitat Inform	mation:					
Plant Communities and	u Habitat IIIO	mation.					
<b>Host Plants Present:</b>	CadiMa	ja exe	Az				
	0 - 11/11	7. 0.					
					<u> </u>		
Nectar Plants Present	:						
☐ Quino Sighting		Date:		GPS Lo	cation:		
- Kamp - 9	•						
Photographs Taken:							
		2.			3.		
1.		5.			6.		
4.		8.			9.		
7.					12.		
10.		11.					

	- TREATMENT PLANT	Survey Segment <u>Survey</u> Date <u>ZI APRZOI6</u> Survey Week	AREA (4)
Survey Partner(s)	I CHATMAN	Date 21 APA 2016 Survey Week	Number(&)
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start 10:00	0	clear patchy overcast drizzle shower	4-6 up	740 E
11:00	0	clear patchy overcast drizzle shower	4-7m	TTR
12:00	0	clear patchy overcast drizzle shower	5-8 nh	790R
13:00	8	clear patchy overcast drizzle shower	6-9 ph	8/º R
14:00	0	clear patchy overcast drizzle shower	6-9.h	83° R
15:00	0	clear patchy overcast drizzle shower	5-8nh	8102
Stop 16:00	0	clear patchy overcast drizzle shower	6-9uh	79° E

Habitat onsite (circle as applicable): hilltops, fidges, rock outcrops, open soils, soil crusts, day soils old roads Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	HIII- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	6	NAME OF THE OWNER O
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Bluc)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		7-7-
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	+10	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	7		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	1	
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)	2		Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)		C	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: Claudless cul Mans	2	
Erynnis propertius (Propertius Duskywing)			(Phoebus genne)		
Ochlodes agricola (Rural Skipper)			( ) Section of the se		
Lycaenidae (Hairstreaks)					
Allides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Flfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	8			-	
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)				-	
Celastrina ladon (Echo Blue)					

Surveyor way Caring		# Sulvey MON (9) Date: ZI MIL 2016
omments:		1
		11
	1 0	
2		
		161
11.		
	. T. C	
lant Communities and Habita	it Information:	
Host Plants Present:	Plantan erecti,	Castilleja exeAs
	1	
-		
Nectar Plants Present:		
		× v
☐ Quino Sighting	Date:	GPS Location:
	•	
Photographs Taken:		
1.	2.	3.
	5.	6.
4.		
7.	8.	9.

	MISSION			Survey Segment Supres Date 22 week 2016 Survey Week	AREA (7)
Surveyor	WREV CV	tamore		Date 22 APRIL 2016 Survey Week	Number (8)
Survey Pa					
Total Acr	es: F	ortion Surve	ved:	Elevation: Max	Min

Time (24 hr)	% Cloud	- Message	est common	Sky	t (reigh	1000	Wind (range)	Temp (F)
Start 10:00	0	clear	patchy	overcast	drizzle	shower	1-21h	690R
		clear	patchy	overcast	drizzle	shower		1 1 1 1 1
		clear	patchy	overcast	drizzle	shower		
11:00	0	clear	patchy	overcast	drizzle	shower	2-4 m	72°F
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop 12:00	0	clear	patchy	overcast	drizzle	shower	2-4yh	73° p

Habitat onsite (circle as applicable): fulltops ridges, cock outcrops, open soils soil crusts, clay soils old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources)

Butterfly Species	Count (Total)	Hill-	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)	The state of the s	and provided	Leptotes marina (Marine Blue)	4	INCOPPOSE
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)	1 -	
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)		- E	Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	+20	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)	1,00	
Junonia coenia (Common Buckeye)	2		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)	1 - 150	
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	2	+
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)	1	
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	2	*
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)	2		Colias harfordii (Harford's Sulphur)	1	
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		-
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			)		
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)				1	
Atlides halesus (Great Purple Hairstreak)				14	
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)				1	
Strymon melinus (Gray Hairstreak)	2				
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor Like CHATMAN Segment # SURVEY AREA (7) Date: 27 MALL 2016 Comments: # SECOND BROOD OF MORNON METALMANIC ASPENDANCE Plant Communities and Habitat Information: Plantago erecta + Castilleia exeta **Host Plants Present: Nectar Plants Present: GPS Location:** Date: ☐ Quino Sighting Photographs Taken: 3. 2. 6. 5.

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# **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	Dale Pouce ! I	Date 4 7 5	te Visit Number 🖔
Site Name	M. 10 10'-	Site Location	Micanon
Total Acres:	Total Acres Surveyed:	Elevation:	Max Min
Hours Surveye	ed: 2/451		

Time (24hr)		Sky	Ā	Wind (aver*/max)	Temp (F)
in the	, clear	% cloud cover	hazy	5/9	9/0
1200	clean	% cloud cover	hazy	3 1	
(500 d)	clear>	% cloud cover	hazy	3/6	300
12.5	(clear)	% cloud cover	hazy	5/2	900
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
SMCVA	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

1-951-686-1497



Nymphalidae (	(Brush Footed Butterflies)	Lycaenidae (l	Blues)
	Euphydryas editha quino (Quino Checkerspot)	JAN 2	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Bluc)
	(Chalcedon Checkerspot)		
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
111	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (1	
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
es republication	Vanessa cardui (Painted Lady)	111	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)		
		Papilionidae	(Swallowtails)
Danaidae (Mil	kweed Butterflies)		Papilio eurymedon (Pale Swallowtail)
4-2-2-	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
			and the state of t
Hesperidae		Pieridae (Wh	ites and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis cethura (Felder's Orangetip)
17.	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
- 1	Hylephila phyleus (Fiery Skipper)		Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	UH	Artogeia rapae (Cabbage White)
			Colias eurytheme (Alfalfa Butterfly)
	**************************************		Colias harfordii (Harford's Sulfur)
2.00		/	Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
			Phoebis sennae (Cloudless sulfur)
			Pontia protodice (Common White)
	Himself of the second of the s		Zerene eurydice (California Dogface)
		Riodinidae (N	Metalmarks)
/ASS-111-10023-			Apodemia mormo virgulti (Behr's Metalmark)
			Calephelis wrighti (Wright's Metalmark)
	one in the control of	Satyridae (Sat	
			Coenonympha californica (California Ringlet)
THER:			
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Surveyor Da		ate 4 17 16 Site Visit Number \$
Site Name A	1003	Site Location Mycamac
Total Acres:	Total Acres Surveyed: _	Elevation: Max Min
Hours Surveyed: 3	1001	A AMERICAN DE COMO DE

Time (24km)			Wind 5	Property (f)			
1400	clear)	% cloud cover hazy	/ 12/18	90')			
1550	clear	% cloud cover hazy	7	902			
1700	clear	% cloud cover hazy		290			
700	Clear	% cloud cover hazy	1 6/9	550			
	clear	% cloud cover hazy	Total contract to an extension of the proof	0 1 1			
	clear	% cloud cover hazy	7				
	clear	% cloud cover hazy	7 14 1 1 11 1 4 1 A A				
	clear	% cloud cover hazy		. m v			
	clear	% cloud cover hazy					
24 6 7	clear	% cloud cover haz	7 - A - A - A - A - A - A - A - A - A -	T 1			
1: 1	clear	% cloud cover hazy	7	100			
	clear	% cloud cover hazy	/				
a complete extended to the	clear	% cloud cover hazy	7: : to a				

Habitat onsite: open soils, billtops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

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	EDUTE CIDES 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Euphydr	vas editha quino (Quino Checkerspot)	بهلا	Brephidium exilis (Pygmy Bluc)
	bredowii californica (California Sister)	1	Celastrina ladon echo (Echo Blue)
	nia-lorquini (Lorquin's Admiral)	4.37	Everes amyniula (Western Tailed Blue)
	as gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
Euphydry	vas chalcedona chalcedona edon Checkerspot)	10	Hemiargus ceraunus gyas (Edward's Blue)
Euphydry	vas chalcedona hennei e's Checkerspot)		Icarcia acmon (Acmon Blue)
	coenia (Buckeye)		Leptotes marina (Marine Blue)
	is antiope (Mourning Cloak)	<del> </del>	Philotes sonorensis (Sonoran Blue)
	is californica (California Tortoiseshell)	<del> </del>	Plebejus melissa (Melissa Blue)
	es mylitta (Mylitta Crescent)	2 22 22	2 stody and message (174 state 2 stady).
	a satyrus (Satyr Anglewing)		
	callippe (Callippe Fritillary)	STANDARD TO HELD PORTOR	in peace, the second se
		San mare frame	Atlides halesus (Great Purple Hairstreak)
	a leanira wrighti (Leanira Checkerspot)		Callophyrs perplexa = dumetorum
* \	annabella (West Coast Lady)		(Perplexing Hairstreak)
	atalanta (Red Admiral)	1	Incisalia augustimus (Brown Elfin)
	cardui (Painted Lady)	1 1	- Strymon melinus (Gray Hairstreak)
Vanessa	virginiensis (Virginia Lady)		<u> </u>
		COMPANY OF THE PARTY OF THE	
6.1			vallentally (
	dias)。一样,一个一个人的特别是一个	¥	Papilio eurymedon (Pale Swallowtail)
Danavs g	gilippus (Queen)	3 X 13 X 2	Papilio rutulus (Western Tiger Swallowtail)
Danaus į	olexippus (Monarch)	10. Yz .	Papilio zelicaon (Anise Swallowtail)
V			
Hesperidae 🥎	BY CARLES AND BY	Piericae (White	and Orangehis In
	funeralis (Funeral Dusky-wing)	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Anthocharis cethura (Felder's Orangetip)
	es ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
	es ericetoram (Otole villes thepre)		
	a playlour (River Stripper)	1111 (24)	
Hylephile	a phyleus (Fiery Skipper)	1111 EX	Anthocharis sara (Sara Orangetip)
Hylephile	a phyleus (Piery Skipper) albescens (Checkered Skipper)	i ii iii	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White)
Hylephile			Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly)
Hylephile			Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur)
Hylephile			Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble)
Hylephile			Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange)
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Surveyor .	le_	Ca	ere l	(	Date 4/17/14 Site Visit Number 2
Site Name W	12 C	3 4			_ Site Location Miroway
Total Acres:	1	Total	Acres	Surveyed:	Elevation: Max Min
Hours Surveyed	-::/-	0.0		100	

Time(24hri	1111	Sky	Noma (4)	Temp (F)
⊋८६	clear	% cloud cover hazy	1/2	7-0
NA may	clear	% cloud cover hazy		1
1100:	clear	% cloud cover hazy		
	clear	% cloud cover hazy	中华	570
:507	(clear)	% cloud cover hazy	1/4	900
IUNA	clear	% cloud cover hazy	117	
	(clear)	% cloud cover hazy		275
1/200	clear	% cloud cover hazy	L. L. Line	and the second
	clear	%-cloud cover hazy-	p/a	87%
- 14	clear	% cloud cover hazy	2 8 1 1 to 41 to 52 to 5	5331
	clear	% cloud cover hazy		· 5
	clear	% cloud cover hazy	30201003 12 12 12	
	clear	% cloud cover hazy		0.00

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

THE RESPECTATION OF SECURITIES.

Plantago erecta, Plantago patagonico, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

COMMENTER



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	Euphydryas edicka quino (Quine Checkerspot)	3 yeaenidac (Blues):
1.22	Adelpha bredowii californica (California Sister)	Brephidium exilis (Pygmy Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Celastrina ladon echo (Echo Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Everes amyntula (Western Tailed Blue)
	Euphydryas chaicedona chalcedona	Glaucopsyche lygdamus australis (Southern Blue)
	(Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	rearest demon (Action Bille)
111	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
,	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	T repelies menana (Menassa Prine)
	Polygonia satyrus (Satyr Angiewing)	* 1
	Speyeric callippe (Callippe Fririllary)	Lych nitter (Hairstreaks)
	Thessalia leanira wrighti (Leanire Checkerspot)	Atlides halesus (Great Purple Hairstreak)
. il.	Vanessa annabellu (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustimus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	Sa ymon metallis (Cray Hairsteak)
		Penil ability County and a second
anaidae (Mill	weed Butterflies)	P. p.il. pudnie (Swellowiails)
	Danaus gilippus (Queen)	Papilio eurymedon (Pale Swallowtail)
	Danaus plexippus (Monarch)	Papilio rutulus (Western Tiger Swallowtail)
		Papilio zelicaon (Anise Swaliowtail)
esperidae		Tapina exemples es (Grant Sup)
	Francis Guardis Comp. D.	Pier 9 to (BV) lites and Orangetips) 9
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great V/hite Ekipper) Hytephita phyleus (Fiory Skipper)	Anthocharis cethura (Felder's Crangetip) Anthocharis lanceolata (Grianell's Maches)
this	Erynnis funeralis (Funeral Dusky-wing)  Heliopetes ericetorum (Great White Ekipper)	Anthocharis cetturo (Felder's Orangetip) Anthocharis Ianceolata (Grianell's Mache) Anthocharis sara (Sara Orangetip)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great V/hite Ekipper) Hytephita phyleus (Fiory Skipper)	Anthocharis cetturo (Felder's Orangetip) Anthocharis lanceolata (Grianell's Mache) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great V/hite Ekipper) Hytephita phyleus (Fiory Skipper)	Anthocharis cethuro (Felder's Orangetip) Anthocharis lanceolata (Grianell's Mache) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great V/hite Ekipper) Hytephita phyleus (Fiory Skipper)	Anthocharis cethuro (Felder's Orangetip) Anthocharis lanceolata (Grianell's Machle) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great V/hite Ekipper) Hytephita phyleus (Fiory Skipper)	Anthocharis cethuro (Felder's Orangetip) Anthocharis lanceolata (Grianell's Marble) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble)
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	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great V/hite Ekipper) Hytephita phyleus (Fiory Skipper)	Anthocharis cethuro (Felder's Orangetip) Anthocharis lanceolata (Grianell's Machle)  Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White)  Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)  Euchloe hyantis lotta (Southern Marble)  Eurema nicippe (Slecpy Orange)  Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great V/hite Ekipper) Hytephita phyleus (Fiory Skipper)	Anthocharis cethuro (Felder's Orangetip) Anthocharis lanceolata (Grianell's Mache)  Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great V/hite Ekipper) Hytephita phyleus (Fiory Skipper)	Anthocharis cetturo (Felder's Orangetip) Anthocharis lanceolata (Grianell's Mache)  Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Slecpy Orange) Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Ekipner) Hytephila phyleus (Fiery Skipper) Pyrgus albescens (Checkered Skipper)	Anthocharis cetturo (Felder's Orangetip) Anthocharis lanceolata (Grianell's Mache) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Ekipner) Hytephila phyleus (Fiery Skipper) Pyrgus albescens (Checkered Skipper)	Anthocharis cethuro (Felder's Orangetip) Anthocharis lanceolata (Grianell's Machle) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Ekipner) Hytephila phyleus (Fiery Skipper) Pyrgus albescens (Checkered Skipper)	Anthocharis cetturo (Felder's Orangetip) Anthocharis lanceolata (Grianell's Mache) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow)  Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)
	Erynnis funeralis (Funeral Dusky-wing)  Heliopetes ericetorum (Great White Ekipner)  Hytephila phyleus (Fiery Skipper)  Pyrgus albescens (Checkered Skipper)	Anthocharis cethuro (Felder's Orangetip) Anthocharis lanceolata (Grimell's Mache) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Slecpy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Ricdinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)
	Erynnis funeralis (Funeral Dusky-wing)  Heliopetes ericetorum (Great White Ekipner)  Hytephila phyleus (Fiery Skipper)  Pyrgus albescens (Checkered Skipper)	Anthocharis cethuro (Felder's Orangetip) Anthocharis lanceolata (Grimell's Marble) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark) Sat ridae (Satyrids)
	Erynnis funeralis (Funeral Dusky-wing)  Heliopetes ericetorum (Great White Ekipner)  Hytephila phyleus (Fiery Skipper)  Pyrgus albescens (Checkered Skipper)	Anthocharis cethuro (Felder's Orangetip) Anthocharis lanceolata (Grimell's Mache) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Slecpy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Ricdinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)
	Erynnis funeralis (Funeral Dusky-wing)  Heliopetes ericetorum (Great White Ekipner)  Hytephila phyleus (Fiery Skipper)  Pyrgus albescens (Checkered Skipper)	Anthocharis cethuro (Felder's Orangetip) Anthocharis lanceolata (Grimell's Marble) Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark) Sat ridae (Satyrids)
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Surveyor	Daic	Powell	Date 4 19/16	Site Visit	Number 2
Site Name	Ma	3	Site Location	1/1/10	was
Total Acres:		Total Acres Surveyed	Elevation	on: Max	Min
Hours Survey	ed:				

Time (24hr)	2 %	Sky	-	Wind (aver*/max)	Temp (F)
Cr. d	clear	% cloud cover	hazy	010	820
10,000	clear	% cloud cover	hazy	100	C+ 7 7
	clear	% cloud cover	hazy	•	1000
1200	clear	% cloud cover	hazy	à T	S
17	clear	% cloud cover	hazy		
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	clear	% cloud cover	hazy		
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	clear	% cloud cover	hazy		
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	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erectà, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph



Nymphalidae (F	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Bluc)
(di)	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
· · · · · · · · · · · · · · · · · · ·	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	A CANADA
wi i	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
1.	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
<del>i</del>	Variance at almost (Dad Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa atalanta (Red Admiral)	Strymon melinus (Gray Hairstreak)
	Vanessa cardui (Painted Lady)  Vanessa virginiensis (Virginia Lady)	an ymore mentius (oray fransitions)
	ranessa virginiensis (virginia Lauy)	The state of the s
		Papilionidae (Swallowtails)
Sanaidae (A411)	ward Puttarffiac)	Papilio eurymedon (Pale Swallowtail)
Janaidae (Milk	weed Butterflies)  Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
	Dunas presippus (Monaren)	
lesperidae	TOTAL	Pieridae (Whites and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
W	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias emytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
	NIV.	Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
CONTRACTOR OF THE PROPERTY OF	NIII	Riodinidae (Metalmarks)
	- I - A - B - A - B - A - B - A - B - B - B	Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Satyridae (Satyrids)
ALL .		Coenonympha californica (California Ringlet)
OTHER:		
Daniel Company	1-22-5-30-00-1	
	and the second s	Lagrania de managones de managones de la composição de la

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# **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	Jun Pamel	<u> </u>	Date 😤 🚈 🖰 💪	Site Visit l		8
Site Name	Map 3		Site Location	Mirana		
Total Acres:	Total Acre	s Surveyed:	Eleva	tion: Max	Min_	
Hours Surveyed:	6/0011					

Time (24hr)	¥5 +2	Sky		Wind (aver*/max)	Temp (F)
1100	clear	% cloud cover	hazy	5/7	860
1200	clēár	% cloud cover	hazy	4/7	248
1300	clear	% cloud cover	hazy	3/6	900
1400	clear	% cloud cover	hazy	5/8	Cla ⁿ
1500	clear	% cloud cover	hazy	417	890
1600	clear	% cloud cover	hazy	3/3	850
1700	clear	% cloud cover	hazy		
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	clear	% cloud cover	hazy		
22 4 5 4 5 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exseria, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph



Nymphalidae (	Brush Footed Butterflies)	Lycaenidae (B	
-	Euphydryas editha quino (Quino Checkerspot)	J III	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Bluc)
	(Chalcedon Checkerspot)		
20001111441	Euphydryas chalcedona hennei (Henne's Checkerspot)		Icarcia acmon (Acmon Blue)
1	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (H	
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
111	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	The state of the s	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	1111	Strymon melinus (Gray Hairstreak)
1.76	Vanessa virginiensis (Virginia Lady)		
		Papilionidae (S	Swallowtails)
Danaidae (Milk	kweed Butterflies)		Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	100	Papilio zelicaon (Anise Swallowtail)
Hesperidae	111	District on (White	es and Orangetips)
FI	Erynnis funeralis (Funeral Dusky-wing)	r scridae ( Willo	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	THE IN	Anthocharis sara (Sara Orangetip)
111.	Pyrgus albescens (Checkered Skipper)	1 1111	Artogeia rapae (Cabbage White)
1	7 / gas areseems (encerted skipper)	1 111	Colias eurytheme (Alfalfa Butterfly)
		111	Colias harfordii (Harford's Sulfur)
***************************************			Euchloe hyantis lotta (Southern Marble)
	THE PARTY OF THE P	-	Eurema nicippe (Sleepy Orange)
		<del> </del>	Nathalis iole (Dwarf Yellow)
		1	Phoebis sennae (Cloudless sulfur)
		tii	Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
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		Riodinidae (Mo	
	THE MARKET PROPERTY OF THE PARTY OF THE PART	11	Apodemia mormo virgulti (Behr's Metalmark)
			Calephelis wrighti (Wright's Metalmark)
		Satyridae (Saty	rids)
			Coenonympha californica (California Ringlet)
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Surveyor Ju	, Par , H-	Date	2 ly Sife Vis	it Number	est or a met	بالمعاكر بالمصور
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Hours Surveyed: 7	-	, ,	. 4 W			4178

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12-20	clear	% cloud cover	hazy		17-	(2)	(1) (1)
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n sam in the same	clear	% cloud cover	hazy	5 15 E-1		6 to 1 to 1	

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erectà, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

COMMENT:

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Charles de Conseille	AND THE PROPERTY HERE AND A SECOND SECOND	Lycanada (15)	
	Euphydryas editha quino (Quino Checkerspot)	HTIII	Brephidium exilis (Pygmy Blue)
III	Adelpha bredowii californica (California Sister)	- 1	Celastrina ladon echo (Echo Blue)
	Basilarchia forquini (Lorquin SlAdmiral)	affail;	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Bhie)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)		Hemiargus ceraumus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)		Icarcia aemon (Aemon Blue)
Test mile	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
Will the	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Mclissa Bluc)
<del></del>	Phycoides mylitta (Mylitta Crescent)		
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	Polygonia satyrus (Satyr Anglewing)  Speveria callippe (Callippe Fritillary)	or whose should be	in the skeep of the state of the skeep of th
	Thessalia leanira wrighti (Leanira Checkerspot)	313 ACSTERIORE ALTO	Atlides halesus (Great Purple Hairstreak)
W 111	Vanessa annabella (West Coast Lady)	Fig. 38, Aug.	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
NO III	77 11 1 0 111111		Incisalia augustinus (Brown Elfin)
	Vanessa atalanta (Red Admiral)	14 150 2	Strymon melinus (Gray Hairstreak)
dan eres	Vanessa cardui (Painted Lady)	77.0	
N	Vanessa virginiensis (Virginia Lady)		<u> </u>
4		AND A COLUMN	
5		2 Thin parties to	
David School	SCHOOL SHOOL SALES AND	- 11.	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	The Hard	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	4 , 2 - 15 1 170	Papilio zelicaon (Anise Swallowtail)
	The state of the s	*******	The state of the s
1000	Heliopetes ericetorum (Great White Skipper)  Hylephila phyleus (Fiery Skipper)	HW II	Anthocharis lanceolata (Grinnell's Marble)  Anthocharis sara (Sara Orangetip)  Artogeta rapae (Cabbage White)
	Pyrgus albescens (Checkered Skipper)	11	Colias emythoma (Alfalfa Butterfly)
	Salarie a situation and an action of a situation of the s		. Colias harfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
	Times		Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
		3,13	Phoebis sennae (Cloudless sulfur)
		15.1	Pontia protodice (Common White)
			TORONO OUR WITOR (1 'SISTAPOIS 1 100TGCP)
		man paradous value series	Zerene eurydice (California Dogface)
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		ا! مبلا	etalmarks) Apodemia mormo virguiti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)
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	1003		Location_	Site Visit Numl			
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Plantago er Antirrhinum 20 second period.	clear clear soils, hilltops ecta, Planta a coulterianu	% cloud cover % cloud cover addges, rock outcro	hazy hazy ps. soil crus			ar sources	51
Plantago er Antirrhiman 20 second period.	clear clear clear clear clear coils, hilltops ecta, Planta coulterianu mph	% cloud cover % cloud cover cloud cover colored cover	hazy hazy nps; soil crus illeja exsert ohylla	a, Cordylanthus ri	gidus,	ar sources	
Plantago er Antirrhiman 20 second period.	clear clear clear clear oils, hilltops ecta, Planta coulterianu mph	% cloud cover % cloud cover cloud cover cloud cover colors, rock outcro go patagonica, Casti m, Collinsia heterop	hazy hazy nps; soil crus illeja exsert ohylla	a, Cordylanthus ri	gidus,		
Plantago er Antirrhinum 20 second period.	clear clear clear gils, hilltops ectal Plantag a coulteriama mph	% cloud cover % cloud cover cloud cover clidges, rock outcro go patagonica, Casti m, Collinsia heterop	hazy hazy ps. soil crus illeja exsert phylla	a, Cordylanthus ri	gidus,		
Plantago er Antirrhinum 20 second period.	clear clear clear gils, hilltops ectal Plantag a coulteriama mph	% cloud cover % cloud cover cloud cover clidges, rock outcro go patagonica, Casti m, Collinsia heterop	hazy hazy ps. soil crus illeja exsert phylla	a, Cordylanthus ri	gidus,		
Plantago er Antirrhinum 20 second period.	clear clear clear clear oils, hilltops ecta, Planta coulterianu mph	% cloud cover % cloud cover cloud cover	hazy hazy nps: soil crus illeja exsert ohylla	a, Cordylanthus ri	gidus,		
Plantago er Antirrhinum 20 second period.	clear clear clear gils, hilltops ecta, Planta coulteriam mph	% cloud cover % cloud cover cloud cover	hazy hazy ps: soil crus illeja exsert ohylla	a, Cordylanthus ri	gidus,		
Plantago er Antirrhinum 20 second period.	clear clear clear poils, hilltops cecta, Plantan coulterianu mph	% cloud cover % cloud cover cloud cover	hazy hazy nps: soil crus illeja exsert ohylla	a, Cordylanthus ri	gidus,		

uplied da: (Brisber octed Butterflies)	hycaemdae YB	Recs) of the second
Euphydryas editha quino (Quino Checkerspot)	Ш	Brephidium exilis (Pygmy Blue)
Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
Basilarchia lorquim (Lorquin & Admiral)	55.68	Everes amyntula (Western Tailed Bhie)
Charidryas gabbii (Gabb's Checkerspot)	C C	Glaucopsyche lygdamus australis (Southern Blue)
		Tr. 1
Euphydryas chalcedona chalcedona	1.50	Hemiai gas cerannas gras (comata s bias)
(Chalcedon Checkerspot)		Tomata annua (Arman Block)
Euphydryas chalcedona hennei	j	Icarcia acmon (Acmon Blue)
(Henne's Checkerspot)		The second secon
1 Junonia coenia (Buckeye)		Leptoles marina (Marine Blue).
Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Bluc)
Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Mclissa Blue)
Phycoides mylitta (Mylitta Crescent)	7.29 C - 1.10	n-/ w. / ·
Polygonia satyrus (Satyr Anglewing)	40. 40. 1. 11.	12 gr 1 gr
Speyeria callippe (Callippe Fritillary)	Lycarothe 4	Million Control of the Control of th
Thessalta leantra wrighti (Leanira Checkerspot)	er( =)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	777-7-1912	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	The A God H	Incisalia augustinus (Brown Elfin)
Vanessa cardui (Painted Lady)	100	Strymon melinus (Gray Hairstreak)
Vanessa virginiensis (Virginia Lady)	10 87 5 5 60	
ranessa virgimensis (angina rada)		Co. 10 (104) 24.
Company to the property and the company of the company to the company of the comp	CANADA LA CARACTERA	mannyratism 14
	- 1 dividuality	Papitto eurymedon (Pale Swallowtail)
Danaus ailinnus (Oueen)	140	Papilio rutilus (Western Tiger Swallowtail)
Total Emphas (Anger)	1 1 1 1 1 1	Papilio zelicaon (Anise Swallowtail)
Danaus plexippus (Monarch)		. Papido zeiwaon (Anise Swallowian)
	1	
	Electronia and Consequent	
	Factions ewill	(eCoud Orangetips) 2
Erynnis funeralis (Funeral Dusky-wing)	-	Anthocharis cethura (Felder's Orangetip)
Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
Hylephila phyleus (Fiery Skipper)	111	Anthocharis sara (Sara Orangetip)
Pyrgus albescens (Checkered Skipper)	1000 000 00	Artogeia rapae (Cabbage White)
enterin and the state of the st	·	" Coltas eurythème (Alfalfa Butterfly)
1,144	ran escapare	Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
***		Eurema nicippe (Sleepy Orange)
And Andrews		Nathalis iole (Dwarf Yellow)
NAME OF TAXABLE PARTY O	11	Phoebis sennae (Cloudless sulfur)
	10	Pontia protodice (Common White)
MARKET WAR 1981		Zerene eurydice (California Dogface)
· · · · · · · · · · · · · · · · · · ·	1	
	easestern bha chean	
Application of the second of t	Riodinidae (N	fetalmarks)
ALLEGO CONTRACTOR CONT	Niconnair (iv	Apodomia mormo virgulti (Behr's Metalmark)
	1131	Calephelis wrighti (Wright's Metalmark)
		Constitution of the state of th
year and the second part of the	MANAGES OF MANAGES AND AND	
	Satyridae (Sat	
		Coenonympha californica (California Ringlet)
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HER;		
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E CANADA AND AND AND AND AND AND AND AND AN	ļ	The second secon
	<u> </u>	

Location SAN	VICE	BUTE RES.	SAN DIEGO QU	UEN ARENS	Survey Segment	QCB survey	ALEA (8)
Surveyor	REC	Curamo	12/	Date 26	ARKIL ZOIG Sur	vey Week Nur	iber (9)
Survey Partner	(s)		5±3%				
Total Acres:		Portion Su	rveyed:		Elevation: I	Max	Min

Time (24 hr)	% Cloud	Sky Wind (range	Temp (F)
Start 10:00	40%	clear patchy overcast drizzle shower 4-6ml	66° F
11:00	700%	clear patchy overcast drizzle shower	67° F
12:00	10%	clear patchy overcast drizzle shower	68° E
13:00	10%	clear patchy overcast drizzle shower	69°F
14:00	10%	clear patchy overcast drizzle shower	70° R
15:00	10%	clear patchy overcast drizzle shower	70° R
Stop 15: 30	20%	clear patchy overcast drizzle shower	68° E

Habitat onsite (circle as applicable): hilliops, idges rock outcrops, open soil, soil crusts clay soils old road Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count Hill-	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)	+15	
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	6	
Dangus gilippus (Queen)		Pieris rapae (Cabbage White)	-	
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)	+20	
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	Z	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS: Lypine blue (I caricia lupini)		
Erynnis propertius (Propertius Duskywing)		(I cacicia lupini)		
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)	5			
Glaucopsyche lygdamus (Southern Blue)				
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

Surveyor Lies CHATMAN Segment # DCB SURVA AREA (8) Date: 26 MAR 2016 Comments: Plant Communities and Habitat Information: Plantago ereda **Host Plants Present:** Nectar Plants Present: Crystadha, Lathenia, Buchukests, Bluedicks, ☐ Quino Sighting Date: **GPS Location:** Photographs Taken: 1. 2. 3. 4. 5. 6. 8. 9.

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Location Thomas	out PLYANT	Survey Segment Sulus	AREA (4)
Surveyor Goet Survey Partner(s)		Date 27 Ageic Tolls Survey Week	Number (9)
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	Sky Wind (range)	Temp (F)
Start /0:00	25%	clear patchy overcast drizzle shower 6-8 up	650 E
11:00	250%	clear patch overcast drizzle shower 6-8 mh	66° F
12:00	250/0	clear patch overcast drizzle shower	67°E
13:00		clear patch overcast drizzle shower	68° E
14:00		clear patchy overcast drizzle shower	68°F
15:00	4	clear patch overcast drizzle shower	6806
Stop 16:00		clear patchy overcast drizzle shower	68° E

Habitat onsite (circle as applicable): hilltops ridges rock outcrops, open soils soil crusts clay soils old roads Plantage, Castilleja, Cordylanthus, Antirrhinum, nectar sources

Butterfly Species	Count Hill- (Total) topping	Butterfly Species	Count (Yotal)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)	6	
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)	8	
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	2	Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)	5	
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)				
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)	6			
Glaucopsyche lygdamus (Southern Blue)				
Icarcia acmon (Acmon Blue)		-		
Celastrina ladon (Echo Blue)				

Surveyor Gest CHATMAN	Segment # Jupung Anga (	(4) Date: 27 APRIL 2016
Comments:		was a state of the
****		
		•
		***
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	ifi	
	8	
Plant Communities and Habitat Inform	nation:	
	*	
	H	
Host Plants Present:	ent / C 1.1/1.	
Plantago	crecta Cadilleja exer	4
Nectar Plants Present: Craftantes	Lathonia budleheate, E	
Sign away	called buordies , E	ncella
0 - 0		
	•	
☐ Quino Sighting ☐	ate: GPS Location	on:
•		
Photographs Taken:		***
1.	2.	3.
4.	5.	6.
7.	8.	9.
10.	11.	12.
		-1

Location Massion Corse MEAC	Survey Segment KIRVOY AREA (7)
Surveyor <u>(1905 Cural new)</u> Survey Partner(s)	Date 29 Marc 2016 Survey Week Number (9)
Total Acres: Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud	1	and the same	Sky	ejidese	96m 20	Wind (range)	Temp:(F)
Start 10:00	10%	clear	patchy	overcast	drizzle	shower	6-8 cm	65° F
11:00	10010	clear	patchy	overcast	drizzle	shower	6-8ak	66°F
12:00	10%	clear	patchy	overcast	drizzle	shower	6-8uk	66°E
		clear	patchy	overcast	drizzle	shower		X.
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop 13:00	100%	clear	patchy	overcast	drizzle	shower	6-8 up	68° =

Habitat onsite (circle as applicable) hillions ridge, ock outcross open soils, soil crusts, day soils, old roads Plantago Castilleja, Cordylanthus, Antirrhinum, nectar sources

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	7	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	+10	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	2		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)	(		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Picridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)	2	
Danaidae			Anthocharis sara (Sara's Orangetip)		
Dangus gilippus (Queen)		1	Pieris rapae (Cabbage White)		7.5
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	5	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)	2		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		İ ' '	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)			327		
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	2				
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

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## **Quino Checkerspot Survey Form**

Dale A Powell

## **Adult Assessment**

Surveyor	2 × 1	Date 4 6 4 14 Site Visit	Number
Site Name	My en ideal	Site Location (1)	3.6
Total Acres:	Total Acres Surveyed	l: Elevation: Max	Min
Hours Surveyed	d: 2/4//		

Time (24hr)		Sky	8.AL	Wind (aver*/max)	Temp (F)
3	clear	% cloud cover	hazy	(***)	Į. Į.
11 00	(clear)	% cloud cover	hazy	4/6	タスト
- din	्टीहेबर	% cloud cover	hazy	-17	76 ^
1234	clear	% cloud cover	hazy	1.04	*, 1
13 10	clear	% cloud cover	hazy	8 5	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		A SPORTED TO THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph



p.2

Nymphalidae (Brush Footed Butterflies)	Lycaenidae (Blues)		
Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)		
Adelpha bredowil californica (California Sister)	Celastrina ladon echo (Echo Blue)		
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)		
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)		
Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)		
(Chalcedon Checkerspot)			
Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)		
(Henne's Checkerspot)	QCAR-3		
Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)		
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)		
Nymphalis californica (California Tortoiseshell)	Plebeius melissa (Melissa Blue)		
Phycoides mylitta (Mylitta Crescent)			
Polygonia satyrus (Satyr Anglewing)			
Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)		
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)		
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum		
ranessa annavena (west coast Eady)	(Perplexing Hairstreak)		
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)		
Vanessa alatanta (Red Admital)  Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)		
Vanessa virginiensis (Virginia Lady)	Su Janua monata (Sta) manatada		
Vanessa virginiensis (Vilginia Lady)	Listanie - Control		
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Papilionidae (Swallowtails)		
Danaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swallowtail)		
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail) Papilio zelicaon (Anise Swallowtail)		
Danaus plexippus (Monarch)	Fapitto Zericaon (Palisc Swallowian)		
Townside.	Pieridae (Whites and Orangetips)		
Hesperidae  Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)		
Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)		
Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)		
Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)		
Tyrgus divescens (Checkered Skipper)	Colias eurytheme (Alfalfa Butterfly)		
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	Euchloe hyantis latta (Southern Marble)		
	Eurema nicippe (Sleepy Orange)		
	Nathalis iole (Dwarf Yellow)		
	Phoebis sennae (Cloudless sulfur)		
	Pontia protodice (Common White)		
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	( Apodemia mormo virgulti (Behr's Metalmark)		
	Calephelis wrighti (Wright's Metalmark)		
	Satyridac (Satyrids)		
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OTHER:			

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Adult Assessment

1-951-686-1497

Quino	Checkers	pot Survey	Form
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Surveyor Col	c Pawell	Date 1/1	: = 1/4 <u>.</u>	Site Visit N	
Site Name (M.	THE THE STATE OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF	Site Lo		Mile	m- 2 F
Total Acres:	Total Acres Surveyed	l:	Elevatio	n: Max	Min
Hours Surveyed:	6/00				

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
10.50	clear 75 % cloud cover	hazy	6/30	63
41.00	clear 70% cloud cover	hazy	7	48.
12.87	clear 50 % cloud cover	hazy	47	3, 9
13.00	clear 5 % cloud cover	hazy	4/2	6. 1
	clear 7 % cloud cover	hazy	A Marc	7
1500	clear 30 % cloud cover	hazy	+!/;	1.7
(500	clear 50 % cloud cover	hazy	215	6 250
1/30	clear 50% cloud cover	hazy	5/9	660
16 70	clear % cloud cover	hazy	7.1	
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhimum coulterianum, Collinsia heterophylla

*20 second period, mph

**COMMENT:** 

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Nymphalidae (Brush Footed Butterflies)	Lycaenidae (Blues)
Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
Phycoides mylitta (Mylitta Crescent)	
Polygonia satyrus (Satyr Anglewing)	
Speyeria callippe (Callippc Fritillary)	Lycaenidae (Hairstreaks)
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
Vanessa virginiensis (Virginia Lady)	
Company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the compan	Papilionidae (Swallowtails)
Danaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Hesperidae	Pieridae (Whites and Orangetips)
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)



p.3

## **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor 1	he Govell	Date 4/- 16	Site Visit	Number
Site Name	Maps 7.4	Site Location	Migar	· W
Total Acres:	Total Acres Surveye	d: Elevation	n: Max	Min
Hours Surveyed	L USAS			

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
- 1	clear % cloud cover	hazy		5. A. 3.
CAN	clear % cloud cover	hazy	7 / 1	K. # 11
11:7	clear % cloud cover	hazy	12/7	1/25
1 20.7	clear 5 % cloud cover	hazy	13/6	77-
12.08	clear - % cloud cover	hazy	17:	1/20
12.7	clear % cloud cover	hazy		79
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		Marie 1
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



mphalidae (E	Brush Footed Butterflies)	Lycaenidae (F	
	Euphydryas editha quino (Quino Checkerspot)		Brephidium exilis (Pygmy Blue)
1,1	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
**IIIXCC SU	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	1	
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
111	Junonia coenia (Buckeye)		Leptotes marina (Marine Bluc)
111	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
Cit	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)	+	
	Polygonia salyrus (Salyt Aligiewing)	Lycaenidae (I	Hairstreaks)
	Speyeria callippe (Callippe Fritillary)	Lycacinuae (	Atlides halesus (Great Purple Hairstreak)
	Thessalia leanira wrighti (Leanira Checkerspot)	HI TO INTE	Callophyrs perplexa = dumetorum
1	Vanessa annabella (West Coast Lady)		(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	II	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Til	Strymon melinus (Gray Hairstreak)
111	Vanessa virginiensis (Virginia Lady)		
- 14			
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anaidae (Mill	weed Butterflies)	1	Papilio eurymedon (Palc Swallowtail)
andicae (Willik	Danaus gilippus (Queen)	10	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	-	Papilio zelicaon (Anise Swallowtail)
	Dandas presippas (Monaton)		
		Pieridae (Wh	nites and Orangetips)
esperidae	Erynnis funeralis (Funeral Dusky-wing)	Tierross (Tri	Anthocharis cethura (Felder's Orangetip)
	Erynnis juneraits (Funeral Dusky-Wing)		Anthocharis lanceolata (Grinnell's Marble)
	Heliopetes ericetorum (Great White Skipper)	1 627 7	Anthocharis sara (Sara Orangetip)
	Hylephila phyleus (Fiery Skipper)	30	Artogeia rapae (Cabbage White)
	Pyrgus albescens (Checkered Skipper)	<del></del>	Colias eurytheme (Alfalfa Butterfly)
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			Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
		[1]	Phoebis sennae (Cloudless sulfur)
		41	Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
	Number of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat	Riodinidae (I	Metalmarks)
	Harman San Carlotter Company	1.0	Apodemia mormo virgulti (Behr's Mctalmark)
······································			Calephelis wrighti (Wright's Metalmark)
		B : 44 . 42	4.113
	-W-411	Satyridae (Sa	coenonympha californica (California Ringlet)
			Coenonympna cargornica (Camornia Kingici)
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#### **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Jun Parell	Date _ [2.17] [6]	_ Site Visit l	Number
Site Name	Map 3	Site Location	Micamo	<i>t</i>
Total Acres:	Total Acres Surveyed	: Elevati	on: Max	Min
Hours Surveye	ed: 600°			

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
101°	clear % cloud cover	hazy	2/2	₹0.°
ii 50	clear % cloud cover	hazy	4/6	72°
1.0	clear % cloud cover	hazy	57	760
1.0	clear % cloud cover	hazy	417	750
("desc)	clear % cloud cover	hazy	5	
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	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Blantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph

1-951-686-1497



Nymphalidae (F	Brush Footed Butterflies)	Lycaenidae (Blues)
y 12	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gvas (Edward's Bluc)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	C
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Mclissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
	Speyeria callippe (Callippe Fritillary)	Lycaenidac (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustimus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
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		Papilionidae (Swallowtails)
Danaidae (Milk	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
		Pieridae (Whites and Orangetips)
lesperidae	5 (Funeral Ducky wing)	Anthocharis cethura (Felder's Orangetip)
	Erynnis funeralis (Funeral Dusky-wing) Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
11000		Anthocharis sara (Sara Orangetip)
Her 1	Hylephila phyleus (Fiery Skipper)  Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	Pyrgus attescens (Checkered Skipper)	Colias eurytheme (Alfalfa Butterfly)
51		Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
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		Nathalis iole (Dwarf Yellow)
		Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		Riodinidae (Metalmarks)
	De 19 328 Hiji (1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 - 1974 -	Apodemia mormo virgulti (Behr's Metalmark)
90	33 Western	Calephelis wrighti (Wright's Metalmark)
		Satyridae (Salyrids)
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Coenonympha californica (California Ringlet)
	1000	
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#### **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Dun	Pow-	ä	Date 4/2	5/16	Site Visit	Number_	9
Site Name	Ma	05 7 6	1.5	Site Loc	ation	Mila	2008	
Total Acres:		Total Ac	res Surveyed	d:	Elevatio	n: Max 🔃	Min_	-
Hours Survey	/ed: /.	06"						

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
1000	clear 75 % cloud cover	hazy	6/10	690
1100	clear 70 % cloud cover	hazy	4'5	370
10.00	clear 5 % cloud cover	hazy	417	600
13/13	clear 35 % cloud cover	hazy	2	690
Y seek.	clear 25 % cloud cover	hazy	F 1/5	25°
C6.5	clear 🕤 % cloud cover	hazy	4/6	700
1600	clear 🛵 % cloud cover	hazy	2/5	700
1KEA	clear < //> % cloud cover	hazy	5/9	453
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		setmeraccolless
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph

1-951-686-1497



Nymphalidae (E	Brush Footed Butterflies)	Lycaenidae (B	
	Euphydryas editha quino (Quino Checkerspot)	HT 111	Brephidium exilis (Pygmy Bluc)
ı	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Bluc)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Adelpha bredowii californica (California Sister Basilarchia lorquini (Lorquin's Admiral) Charidryas gabbii (Gabb's Checkerspot) Euphydryas chalcedona chalcedona (Chalcedon Checkerspot) Euphydryas chalcedona hennei (Henne's Checkerspot)  Junonia coenia (Buckeye) Nymphalis antiope (Mourning Cloak) Nymphalis californica (California Tortoiseshell Phycoides mylitta (Mylitta Crescent) Polygonia satyrus (Satyr Anglewing) Speyeria callippe (Callippe Fritillary) Thessalia leanira wrighti (Leanira Checkerspot Vanessa annabella (West Coast Lady)  Vanessa cardui (Painted Lady) Vanessa virginiensis (Virginia Lady)  idae (Milkweed Butterflies) Danaus gilippus (Queen) Danaus plexippus (Monarch)		Glaucopsyche lygdamus australis (Southern Blue
		i	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
11-	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (H	(airstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
M	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
		1	Strymon melinus (Gray Hairstreak)
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Danaidae (Mille	ward Rutterflier)	rapitionidae (	Papilio eurymedon (Pale Swallowtail)
Danatuae (IVIIIK)		1 !(1	Papitio rutulus (Western Tiger Swallowtail)
		+ + + + + + + + + + + + + + + + + + + +	Papilio zelicaon (Anise Swallowtail)
owelles	Danais presippis (intoliator)		1 apino zencuon (Amise Gwallowali)
Tannanidaa		Dissides (White	es and Orangetips)
lesperidae	Enumia Guaratio (Comeral Duelov mine)	Pichdae (White	Anthocharis cethura (Felder's Orangetip)
			Anthocharis ianceolata (Grinnell's Marble)
		+	Anthocharis sara (Sara Orangetip)
TS.Y		<del></del>	Artogeia rapae (Cabbage White)
THE	r yrgas albescens (Checkered Skipper)		Colias eurytheme (Alfalfa Butterfly)
			Colias harfordii (Harford's Sulfur)
	CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR O		Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
		<del></del>	Nathalis iole (Dwarf Yellow)
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MINE THE PERSON NAMED IN		1	Apodemia mormo virgulti (Behr's Metalmark)
			Calephelis wrighti (Wright's Metalmark)
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		Satyridae (Saty	
	190-190 H 200-190-190-190-190-190-190-190-190-190-1		Coenonympha californica (California Ringlet)
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<b>Quino</b>	Checkers	pot Surve	ev Form
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#### **Adult Assessment**

Surveyor	Dun Powell	Date	4/26/16	Site Visit	Number 🤗
Site Name	MA 02 3 4	Site	e Location	Milan	oV
Total Acres:	Total Acres Surveye	ed:	Elevation	on: Max	Min
Hours Survey	ved: 4/3/				

Time (24hr)	54	Sky		Wind (aver*/max)	Temp (F)
0900	(Tear)	% cloud cover	hazy	3/5	6-70
1000	efear)	% cloud cover	hazy	3/5	680
100	ofear	% cloud cover	hazy	24	73°
200	clear	√ % cloud cover	hazy	4/6	770
13/10	clear	5 % cloud cover	hazy	47	76°
1330	clear '	√% cloud cover	hazy	35	740
3	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta; Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

1-951-686-1497

Vymphalidae (	Brush Footed Butterflies)	Lycaenidae (Bl	ues)
*	Euphydryas editha quino (Quino Checkerspot)	HAT	Brephidium exilis (Pygmy Blue)
111	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
110	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
1111	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
-1111	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
-	Phycoides mylitta (Mylitta Crescent)	50 5	
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (H.	airstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	- Comment	Atlides halesus (Great Purple Hairstreak)
11	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum
1.8:	r discipli diritabella ( il abi o alla		(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	11	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	1	Strymon melinus (Gray Hairstreak)
11	Vanessa virginiensis (Virginia Lady)		
	7 ditebbe 711 gillonoito ( 1 il gillonoito )		
		Papilionidae (S	Swallow(ails)
onaidaa (Mil	kweed Butterflies)	11	Papilio eurymedon (Pale Swallowtail)
windidae (Will	Danaus gilippus (Queen)	1111	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
	одника рехерриа (минист)		
		Pieridae (Whit	es and Orangetips)
lesperidae	Erynnis funeralis (Funeral Dusky-wing)	1 terioac (with	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinneli's Marble)
	Heliopetes ericetorum (Great Willie Skipper)	W DI	Anthocharis sara (Sara Orangetip)
- 11	Hylephila phyleus (Fiery Skipper)	- Milli	Artogeia rapae (Cabbage White)
	Pyrgus albescens (Checkered Skipper)	111	Colias eurytheme (Alfalfa Butterfly)
			Colias harfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
J., 27.	X29705		Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
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		\\\\\	Pontia protodice (Common White)
	Takana na mwanawa a sa	HTT.	Zerene eurydice (California Dogface)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Zerene euryaice (Camonia Dogiace)
46		Riodinidae (M	etalmarke)
		Riodinidae (W	Apodemia mormo virgulti (Bchr's Mctalmark)
		- ATI	Calephelis wrighti (Wright's Metalmark)
			Calephens might (Tright 5 mountains)
		Satyridae (Saty	oride)
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#### **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Date Court	Date 1/24/16 Site Visit	Number 9
Site Name	Mapa	Site Location Mirama	<i>p.</i>
Total Acres:	Total Acres Surveyed	: Elevation: Max	Min
Hours Surveyed	<u>. 4</u>		

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
220	clear % cloud cover	hazy	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	×7,0
1400	clear % cloud cover	hazy	clit	7/0
1500	clear 15 % cloud cover	hazy	1/2	7.10
WYD	clear us % cloud cover	hazy	211	620
16:5	clear 🐠% cloud cover	hazy)	6 D_	330
1	clear % cloud cover	hazy	3 7	
	clear % cloud cover	hazy		
101.11,11 - 211 - 211	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		(3-4/
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources,

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph

Location Say	GOEL CHATMAN	SKNDERO	avor	Mas Survey Segn	nent Suk	WOX AREA	(8)
Surveyor	aper Channen		D	ate Zung 2016	Survey W	eek Number	10)
Survey Partner(	s)			0			/
Total Acres:	Portion Surv	reved:		Elevati	ion: Max	Min	

Time (24 hr)	% Cloud	meter out constru	Sky	To the same	1000	Wind (range)	Temp (F)
Start (0:00	0	clear patchy	overcast	drizzle	shower	6-8 gh	670 8
11:00	-	clear patchy	overcast	drizzle	shower	6-8 de	690 F
12:00	0	elean patchy	overcast	drizzle	shower	6-9 ndh	7108
13:00	8	clear patchy	overcast	drizzle	shower	7-10 m/h	72010
14:00	0	clear patchy	overcast	drizzle	shower	6-9 ap	730F
15:00	2	clear patchy	overcast	drizzle	shower	6-8uh	73.F
Stop /6:00	8	clear patchy	overcast	drizzle	shower	7-9ad	7108

Habitat onsite (circle as applicable) hilltops ridges rock outcrops open soils soil crusto clay soils old roads Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species		Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	40	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Rcd Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Picridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	6	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	+10	
lesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		14	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: Bernardias blue	1	
Erynnis propertius (Propertius Duskywing)			OTHERS: Bernardias blue (Eyllis lotes bernardino)		
Ochlodes agricola (Rural Skipper)					
ycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)				1	
Strymon melinus (Gray Hairstreak)	4				
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor Light CHATMAN Segment # Suguey MEA (8) Date: 2 may 2016 Comments: Plant Communities and Habitat Information: Plantago erecta **Host Plants Present:** Nectar Plants Present: Lasthenia, Cogstantha, Buckakest, Blue-dicks ☐ Quino Sighting **GPS Location:** Date: Photographs Taken: 3. 2. 6. 5. 4. 9. 8. 7.

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Location South	FTRENTMENT PLANT	Survey Segment Supple	1004 (4)
	2 CHATMAN	Date 3 may 2016 Survey Week	Number (10)
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	Sky Wind (ra)	ige) Temp (F)
Start 10:00	-0	clean patchy overcast drizzle shower 4-6-4	61° R
11:00	0	clean patchy overcast drizzle shower	72° R
12:00	-0	clear patchy overcast drizzle shower	7502
13:00		patchy overcast drizzle shower	76°F
14:00		clear patchy overcast drizzle shower 6-14	7708
15:00		clear patchy overcast drizzle shower	770R
Stop 16:00		clear patchy overcast drizzle shower	76°F

Habitat onsite (circle as applicable): hilltops, ridges rock outcrops, open soils soil crusts clay soils and roads Plantago Castilleja. Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	+10	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)	2	
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	110	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)	-	
Junonia coenia (Common Buckeye)	2		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Rcd Admiral)	-		Papilio zelicaon (Anise Swallowtail)	1	K
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)	3	L	Anthocharis cethura (Desert Orangelip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	+10	
Hesperidae	1		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	3	
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: Calfornic Sister		
Erynnis propertius (Propertius Duskywing)		100	(Adelpho brodowi oxidornica)		
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	B				
Glaucopsyche lygdamus (Southern Blue)		1.5			
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor Gpen Cypromed	Segment #_	survey AREN (4)	Date: 03 may 2016
Comments:			
	0-1-		
		¥	
			Y-7
Plant Communities and Habitat	Information:		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
19.00			
Host Plants Present: Pla	ntago erecta, C	astilleia exa	erta
	*	j ·	
==10			
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			***
Nectar Plants Present:	planthe, Lastheni	c. Burkakest	Blue-dicks
	filming, partie	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Datas	GPS Location:	- M. H.
☐ Quino Sighting	Date:	GFS LUCATION:	
Photographs Taken:			
	2.		3.
4.	5.		6.
7.	8.		9.
10.	11.		12.

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Location _	MISSION GORGE	ARCA	Survey Segme	nt Sueus	AREA ()
Surveyor Survey Par	ther(s)	mar	Date 4 mm 2016 S	Survey Week	Number (10)
Total Acres	, ,	n Surveyed:	Elevation	n: Max	Min

Time (24 hr)	% Cloud	Tiple Supe	Sky	cience	200	Wind (range)	Temp (F)
Start /0:00	-0	clear patchy	overcast	drizzle	shower	7-4 m	68° R
11-00		clea patchy	overcast	drizzle	shower	2-4h	7/02
12:00		elean patchy	overcast	drizzle	shower	4-6 al	740R
		clear patchy	overcast	drizzle	shower	7	N.
		clear patchy	overcast	drizzle	shower		
	48	clear patchy	overcast	drizzle	shower	VZ 1	
Stop (3:00		gea patchy	overcast	drizzle	shower	4-6 wh	7502

Habitat onsite (circle as applicable) hillions ridges, ock-outcrops open soils soil crusts clay soils old roads. Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	(Total)	HIII-	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	5	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		33	Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	+10	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		×	Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)	2		Anthocharis cethura (Desert Orangelip)		
Danaldae			Anthocharis sara (Sara's Orangetip)	1	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)	1	
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	3	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	1		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)				- 37	
Incisalia augustinus (Western Brown Elfin)			3X		
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	2				
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

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12.

p.7

#### **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor N	ie Proni	Date SING	_ Site Visit	Number 10
Site Name	Maga 1 = 2	Site Location _	Wilam	2.5
Total Acres:	Total Acres Surveyed	: Elevat	ion: Max	Min
Hours Surveyed				

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
11:5	clear 🎁 % cloud cover	hazy	15	61
(100	clear 🦚 % cloud cover	hazy	5.14	7.05
1500	clear 40 % cloud cover	hazy	417	723
1460	clear 1/1 % cloud cover	hazy	26	730
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		

Habitat onsite; open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

vymphalidae (B	rush Footed Butterflies)	Lycaenidae (1	
)p	Euphydryas editha quino (Quino Checkerspot)	Ni ii	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue
****	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
7	Junonia coenia (Buckeye)	1 1.4	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Bluc)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (	
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)		Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)		
	W. S. Carlotte		
		Papilionidae	(Swallowtails)
Danaidae (Milk	weed Butterflies)		Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
Hesperidae		Pieridae (Wh	nites and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)		Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)
17	2477		Colias eurytheme (Alfalfa Butterfly)
	2 22 (marco) (0.64), (2.60), (1.61)		Colias harfordii (Harford's Sulfur)
	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA		Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Slccpy Orange)
			Nathalis iole (Dwarf Yellow)
	5 DELETE (1997)		Phoebis sennae (Cloudless sulfur)
			Pontia protodice (Common White)
	III		Zerene eurydice (California Dogface)
		Riodinidae (	Matolmarke)
	iii.	Kiodinidae (	Apodemia mormo virgulti (Behr's Metalmark)
		11111	Calephelis wrighti (Wright's Metalmark)
	No Sindheren	Satyridae (Sa	atyrids)
			Coenonympha californica (California Ringlet)
OTHER:			10.40 - 10.40
GIIIII	- 200 - 100 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200		
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# Quino Checkerspot Survey Form

#### **Adult Assessment**

Surveyor	Da's Fried	Date Sidis	Site Visit Number	. 10
Site Name	Mans 3	Site Location		10
Total Acres:	Total Acres Surveyed	- HEADSTANDON CONTRACTOR	tion: Max Mir	1
Hours Surveyed:			14111	1

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1410	clear	% cloud cover	hazy	1/2	670
1500	clear	% cloud cover	hazy	2/4	700
0001	clear	% cloud cover	hazy	417	720
1200	clear	% cloud cover	hazy	37/	<del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del>
1725	clear	% cloud cover	hazy	1/2	780
	clear	% cloud cover	hazy	3/5	7.70
	clear	% cloud cover	hazy	415	730
	clear	% cloud cover	hazy	1	7.0
	clear	% cloud cover	hazy		- 1
	clear	% cloud cover	hazy		- 11191
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta: Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph

1-951-686-1497



ymphalidae [	Brush Footed Butterflies)	Lycaenidae (E	
	Euphydryas editha quino (Quino Checkerspot)		Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	. J	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)		WAR TO BE TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TO
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (1	
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Compan	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	THE THE	Strymon melinus (Gray Hairstreak)
11	Vanessa virginiensis (Virginia Lady)		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Papilionidae	(Swallowtails)
Danaidae (Mill			Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
سخستين	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Bi-di- OM	i. 10-wates
resperidae	(Chalcedon Checkerspot)  Euphydryas chalcedona hennei (Henne's Checkerspot)  Junonia coenia (Buckeye)  Nymphalis antiope (Mourning Cloak)  Nymphalis californica (California Tortoiseshell Phycoides mylitta (Mylitta Crescent)  Polygonia satyrus (Satyr Anglewing)  Speyeria callippe (Callippe Fritillary)  Thessalia leanira wrighti (Leanira Checkerspot Vanessa annabella (West Coast Lady)  Vanessa atalanta (Red Admiral)  Vanessa virginiensis (Virginia Lady)  Vanessa virginiensis (Virginia Lady)	Pieridae (Wil	ites and Orangetips)  Anthocharis cethura (Felder's Orangetip)
			Anthocharis lanceolata (Grinnell's Marble)
			Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
		<del></del>	Eurema nicippe (Sleepy Orange)  Nathalis iole (Dwarf Yellow)
			Phoebis sennae (Cloudless sulfur)
		<del>- iti</del>	Pootia protodice (Common White)
		111	Zerene eurydice (California Dogface)
	MANAGEMENT OF THE STREET		zerene euryane (Camorina Dograce)
		Riodinidae (N	Metalmarks)
		111	Apodemia mormo virgulti (Behr's Metalmark)
			Calephelis wrighti (Wright's Mctalmark)
	Tarient 1	Satyridae (Sa	rtyrids)
		Sucy ridate (15a	Coenonympha californica (California Ringlet)
			Contains in print congo into Contains congress
OTHER:			
JIHK.			

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# Quino Checkerspot Survey Form

#### **Adult Assessment**

Surveyor \	ale fameli	Date 5/2/16	Site Visit	Number 1
Site Name	Maps 3. 4 5	Site Location	Mirano	
Total Acres:	Total Acres Surveyed:	Elevati	ion: Max	Min
Hours Surveyed	1: チャッ・			

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
OFFO	clear % cloud cover	hazy	1/3	670
E 75 1 1	clear % cloud cover	hazy	3 1 / ju	F 2 - 4 3
10 PERS	clear % cloud cover	hazy	5/9	7.7-
LES CONTRACTOR	clear % cloud cover	hazy	5 0	19 5-23
will a	clear % cloud cover	hazy	*, 2U-	70
111	clear % cloud cover	hazy	2.19	5y -x
(10)	clear \\ \\ \\ % cloud cover	hazy	6, 4	70
1606	clear 5% cloud cover	hazy	3 75	
1	clear 27% cloud cover	hazy		13. 3
	clear % cloud cover	hazy		***
	clear % cloud cover	hazy	0.100	
	clear % cloud cover	hazy		
321	clear % cloud cover	hazy		Nell III

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erects, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

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Dale A Powell

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	rush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
.1/11	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gahbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
-	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcodon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
13,	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Bluc)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
E. (	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dunetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
— ļļ. —	Vanessa atatanta (Red Admirat)  Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
- 41		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
	Vanessa virginiensis (Virginia Lady)	Harmon Marie Walter
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Papilionidae (Swallowtails)
	10 4 4 4	Papilio eurymedon (Pale Swallowtail)
maidae (Milky	wccd Butterflies)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus gilippus (Queen)	Papilio zelicaon (Anise Swallowtail)
	Danaus plexippus (Monarch)	1 dpino zenedon (ranse swenowam)
speridae	W. Head	Pieridae (Whites and Orangetips)
sportdae	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
UH	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
-411	Tyrgio diobaccia (Citediated Side)	Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
	Carrier Carrier Carrier Carrier	Euchloe hyantis lotta (Southern Marble)
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		Phoebis sennae (Cloudless sulfur)
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		Zerene eurydice (California Dogface)
		Riodinidae (Metalmarks)
		Apodemia mormo virgulii (Behr's Metalmark)
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		Satyridae (Satyrids)
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#### **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	Die Gara	Date 5	12/16	Site Visit	Number	C
Site Name	Was 5	Site L	ocation	Move	1332	
Total Acres:	Total Acres Su	rveyed:	Elevation	on: Max	Min_	
Hours Surveye	ed: 4 00%					

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
***	clear	% cloud cover	hazy		77.7
10	clear	% cloud cover	hazy	4/7	772
100	clear	% cloud cover	hazy		17:09 (5)
1250	(clear)	% cloud cover	hazy	57	210
1700	clear	% cloud cover	hazy	3/5	780
2.1	ćl <b>∉a</b> r	% cloud cover	hazy	3/5	750
	clear	% cloud cover	hazy	***	
	clear	% cloud cover	hazy	1	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
5_V// 2011-1-22-1	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

Dale A Powell

1-951-686-1497



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Nymphandae (1	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Bluc)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryus chalcedona chalcedona . (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoisesheil)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
111	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
		Papilionidae (Swallowtails)
Danaidae (Milk	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Hesperidae	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Pieridae (Whites and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
10 10 10 10 10 10 10 10 10 10 10 10 10 1	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	SKyppi ?	Colias eurytheme (Alfalia Butterfly)
		Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
5-11-1-1-1	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Eurema nicippe (Sleepy Orange)
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		Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wright (Wright's Metalmark)
		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
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Dale A Powell

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Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exsertà, Cordylanthus rigidus, Antirrhimum coulterianum, Collinsia heterophylla

*20 second period, mph

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no hairfair filires of Footcal (Soutcathes) (************************************	Lycacmicae (Bibes)
Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
Adelpha bredowii californica (California Sister)	· Celastrina ladon echo (Echo Blue)
Basilarchia lorquini (Lorquin's (Admiral)	Everes anyntula (Western Tailed Blue)
Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Bluc)
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Euphydryos chalcedona hennei	Icarcia aemon (Aemon Blue)
(Henne's Checkerspot)	
Junonia coenta (Buckeye)	Leptoles marina (Marine Blue).
	Philotos sonoransis (Soporan Blue)
Nymphalis antiope (Mourning Cloak)	
Nymphalis californica (California Tortoiseshell)	the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa
Phycoides mylitta (Mylitta Crescent)	the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
Polygonia satyrus (Satyr Anglewing)	) v. zeolitac (Plansprats)
Speyeria callippe (Callippe Fritillary)	Atlides halesus (Great Purple Hairstreak)
Thessalia leanira wrighti (Leanira Checkerspot)	Callophyrs perplexa = dumetorum
Vanessa annabella (West Coast Lady)	(Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
Vanessa virginiensis (Virginia Lady)	Contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contractation of the contracta
11 1414004 118	a z touth to remi
	Papillonidae (Swallowans)
Andrew (New York and April 1997)	Papilio curymodon (Palo Swallowtail)
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Danaus piexippus (violiaicii)	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
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	Anthocharis cethura (Felder's Orangetip)
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis, lanceolata (Grinnell's Marble)
Heliopetes ericetorum (Great White Skippet)	
Hylephtla payteus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White)
11) Pyrgus albescens (Checkered Skipper)	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
Vi to Your Mark the property of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	Colias eurytheme (Alfalfa Butterily)
/	Colias harfordii (Harford's Sulfur)
	Euchloe hyantis lotta (Southern Marble)
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	Phoebis sennae (Cloudless sulfur)
	Pontia protodice (Common White)
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Harden Market Market Company	Riodinidae (Metalmarks)
	Apodemia mormo virgulti (Behr's Metalmark)
	Calephelis wrighti (Wright's Metalmark)
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## **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor 5	- 1110	Pawel	1	Date	5/2/16	<u>.</u>	Site Vis	it Nu	nber	lo
Site Name	MADOS	3.4	5	Site	e Location		Miran	با بيرم		
Total Acres:	, T	otal Acres	Surveyed:	-2	Eleva	ation	n: Max		Min	
Hours Surveyed:	7m1									

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
7920	clear % cloud cover	hazy	113	670
C001	બર્લ્ટિ % cloud cover	hazy	36	<b>チ</b> カウ
1130	cean % cloud cover	hazy	5/7	740
1200	clears % cloud cover	hazy	SX	770
(250	clear % cloud cover	hazy	3/4	25
1460	clears % cloud cover	hazy	42	781
1580	clear 🦙 % cloud cover	hazy	5/9	78°
602	clear 2 % cloud cover	(hazy)	418	778
1620	clear 3/3% cloud cover	<b>daz</b>	3 1/2	76
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		77.2

Habitat onsite: open soils, hilltops ridges rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



vymphandae (b	Frush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
11	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Bluc)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
1111	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Mclissa Bluc)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	* 11 (TX : A . 1.)
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
[1]	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
Y	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
		Papilionidae (Swallowtails)
Damaidae (N.C.III.	wood Buttorfling	Papilio eurymedon (Pale Swallowtail)
Janaidae (ivilik	weed Butterflies)  Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
· · · · · · · · · · · · · · · · · ·	Danaus ginppus (Queen) Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
	Danaus piexippus (Monaicii)	Tapino acrossom (. ando o manorali)
		Pieridae (Whites and Orangetips)
Hesperidae	E ( C (Forward Dunlay union)	Anthocharis cethura (Felder's Orangetip)
	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis lanceolata (Grinnell's Marble)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis sara (Sara Orangetip)
- 11	Hylephila phyleus (Fiery Skipper)	Artogeia rapae (Cabbage White)
- 11	Pyrgus albescens (Checkered Skipper)	
		Colias eurytheme (Alfalfa Butterfly)  Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis tole (Dwarf Yellow)
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		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
		Zerene euryace (Camonia Dograce)
		Bladinidas (Matalanaka)
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		Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
		Catepatio wight (wight Sweamark)
	on a nation	Satyridae (Satyrids)
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		Country and Country and Country and Ethigaty
OTHER:		- CONTROL STREET BY THE STREET
	U D D D D D D D D D D D D D D D D D D D	
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	

#### **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor Jun	Fame !!	Date_	5/3/16	Site Visit 1	Number 🧵	)
Site Name M	nc 3	Site	Location _	Misos	Mar Diff	
Total Acres:	Total Acres Surveyed:		Elevation	on: Max	Min	
Hours Surveyed: 4	AN!					

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
27.	(clear)	% cloud cover	hazy	25	72°
N))	Clear	% cloud cover	hazy	417	740
450	clear	% cloud cover	hazy	3/6	子とっ
4.77	clear'	% cloud cover	hazy	517	2:3
V240	clear	% cloud cover	hazy	3/5	782
1735	clear	% cloud cover	hazy	3/1	
	clear	% cloud cover	hazy		10070
X::===	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources.

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



vympnatidae (	Brush Footed Butterflies)	Lycaenidae (B	
	Euphydryas editha quino (Quino Checkerspot)		Brephidium exilis (Pygmy Blue)
	Adelpha bredown californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)  Euphydryas chalcedona chalcedona		Glaucopsyche lygdamus australis (Southern Blue
	(Chalcedon Checkerspot)		Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	5,6	Icarcia acmon (Acmon Blue)
	Junonia coenia (Buckeye)	1 )	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (H	airstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
11	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	JHT 1113	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	CULIU.	(Say Harring)
(25)		Papilionidae (S	Swallowtails)
Danaidae (Mill	kweed Butterflies)		Papilio eurymedon (Pale Swallowtail)
5.	Danaus gilippus (Queen)	A.	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
Hesperidae	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Pieridae (White	es and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)		Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	1 1	Artogeia rapae (Cabbage White)
	-25 thet ,		Colias eurytheme (Alfalfa Butterfly)
			Colias harfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
· · · · · · · · · · · · · · · · · · ·			Eurema nicippe (Sleepy Orange)
	· · · · · · · · · · · · · · · · · · ·		Nathalis iole (Dwarf Yellow)
		127	Phoebis sennae (Cloudless sulfur)
			Pontia protodice (Common White)
	FIG. 1000.	-	Zerene eurydice (California Dogface)
		District on	
	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Riodinidae (Mo	
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			Calephelis wrighti (Wright's Metalmark)
		Satyridae (Saty	ride)
	r or investment remains on the remains and it is a constant.	Jacy Huac (Jacy	Coenonympha californica (California Ringlet)
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		Commonwell Cantotina Ringlet)
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Location MISSIG	IN QURGE AREA	Date 8 May 2016 Survey Wee	4REA(7)
Surveyor _ GRE	& CHAMMAN	Date 8 may 2016 Survey Wee	k Number (11)
Survey Partner(s)		ð	
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	Sky Wind (range) Temp (F)
Start 11:00	10%	clear patch overcast drizzle shower
12:00	100/2	patchy overcast drizzle shower
13:00	20%	patchy overcast drizzle shower
		clear patchy overcast drizzle shower
		clear patchy overcast drizzle shower
		clear patchy overcast drizzle shower
Stop 14:00	1000	patchy overcast drizzle shower

Habitat onsite (circle as applicable): hifftop, ridges, lock outcrops open soils, soil crusts clay soils old roads Plantago, Castilleja, Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	6	INCLUMENT OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)	1		Apodemia mormo (Mormon Metalmark)	110	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)	2		Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	T	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	4	
Hesperidae			Colias eurytheme (Orange Sulphur)	17	
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		1
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)	1		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	2				
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor Great Cuttomer Segment # Sulley 1804 (7) Date: 08 may 2016 **Comments: Plant Communities and Habitat Information:** Plantago erecta **Host Plants Present:** Copptantha, Lasthenis, Buckultons **Nectar Plants Present: GPS Location:** ☐ Quino Sighting Date: Photographs Taken: 3. 2. 5∙ 6. 4. 9. 7• 8.

11.

10.

12.

Location Sound	TREATMENT PLANET	Date 9 2016 Survey Week	AREA (4)
Surveyor and CHAMMAN		Date 9may 2016 Survey Week	Number (11)
Survey Partner(s)			
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start ( 5 5/0:00	40%	clear patch overcast drizzle shower	4-74h	65°12
11:00	30 %	clear patchy overcast drizzle shower	4-6m	66° E
12:00	200/0	clear patchy overcast drizzle shower	5-8ah	69° P
13:00	Zoolo	clear patchy overcast drizzle shower	5-Amp	71°E
14:00	20%	clear patchy overcast drizzle shower	4-7mh	70° 1=
15:00	2006	clear patchy overcast drizzle shower	4-9 and	70°F
Stop 16:06	20%	clear patchy overcast drizzle shower	6-9mh	69°E

Habitat onsite (circle as applicable): hilltops ridges rock outcrops, open soils soil crusts clay soils old roads. Plantago, Castilleta, Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	(Total) topping	Butterfly Species		Hill- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)	40	
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)	2	Apodemia mormo (Mormon Metalmark)	10	
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)	2	
Vanessa cardui (Painted Lady)		Picridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)	3	Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	1-)	
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)	4	
Hesperidae		Colias eurytheme (Orange Sulphur)	2	
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)	2	Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	i	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS: California aster	2	
Erynnis propertius (Propertius Duskywing)		OTHERS: California arter (Adelpha bredowii Californica)		
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Allides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)	+10			
Glaucopsyche lygdamus (Southern Blue)				
Icarcia acmon (Acmon Blue)			4	
Celastrina ladon (Echo Blue)				

Surveyor GREE CHATMAN	Segment # Sugar Alex	4) Date: 09 may 2016
Comments:		
		•
	41.	
	<del></del>	
Plant Communities and Habitat Infor-	mation	
Thank communities and Habitat Infor-	madon:	
A		
Heat Black B	1 0 1	,
Host Plants Present: Plantago	erecta, Castilleja exul	ta
· · · · · · · · · · · · · · · · · · ·		
1.121		
Nectar Plants Present:	S LATT WEEK	
Silvie A	cast week	
☐ Quino Sighting I	Date: GPS Location	n:
•		
Photographs Taken:		
1.	2.	3.
4.	5.	6.
7.	8.	9.
10.	11.	12.

Location 5	CREW CHAR	SUM DIEN	o RIVER AREN	Survey Seg	ment <u>Survey</u>	area (8)	7
Survey Partne	er(s)	MAN	Date	10 may 6016	Survey week	Number 4	7
Total Acres:	Portion	Surveyed:	- 3.8873	Eleva	tion: Max	Min	_

Time (24 hr)	% Cloud	Sky test (and	Wind (range) Femp.(F)
Start //:00	2506	clear patch overcast drizzle shower	2-4 up 69012
12-00	20%	clear patchy overcast drizzle shower	25uh 70k
13:00	20%	clear patch overcast drizzle shower	
14:00	10%	etear patchy overcast drizzle shower	3-6 m/ 76°R
15:00	1000	clear patchy overcast drizzle shower	2-6m 770 8
		clear patchy overcast drizzle shower	
Stop 16:00	10%	clear patchy overcast drizzle shower	4-6 up 76°F

Habitat onsite (circle as applicable): hilltops ridges, rock outcrops, open soils soil crusts clay soils old roads Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources

Butterfly Species	Count (Total)	Hill-	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		The second	Leptotes marina (Marine Blue)	4	1000 1000
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Bluc)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	40	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	2		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Picridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)	3		Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	6	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	2	
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	2		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: California sister		
Erynnis propertius (Propertius Duskywing)			Cantarata Tina		
Ochlodes agricola (Rural Skipper)		-	38		
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)			36.0		
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	3				
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)					-
Celastrina ladon (Echo Blue)			· · · · · · · · · · · · · · · · · · ·		

Surveyor GRE CHAMMED Segment # Sugar ARCA (8) Date: W may 7016 Comments: **Plant Communities and Habitat Information:** @ Plantago erectu **Host Plants Present:** SMUE AS BEFORE **Nectar Plants Present:** ☐ Quino Sighting **GPS Location:** Date: Photographs Taken: 2. 3. 6. 5∙ 4. 8. 9. 7.

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	cedona chalcedona.	12.97%	Hemiargus ceraunus gyas (Edward's Blue)
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	us (Fiery Skipper)		Anthocharis sara (Sara Orangetip)
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45,8375	1, 147	on to the average	Colias harfordii (Harford's Sulfur)
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			Eurema nicippe (Sleepy Orange)
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		Salytidae (Salyt	Coenonympha californica (California Ringlet)
THE PERSON NAMED IN COLUMN	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	-	Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Country of the Countr
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Quino	Checkers	pot Surv	ey Form
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#### **Adult Assessment**

Surveyor	Male Passaii	Date 5/8/16	Site Visit	Number   '	
Site Name	M.e. 3	Site Location	Miran	mar	
Total Acres:	Total Acres Surveyed	Eleva	tion: Max	Min	-
Hours Surveyed	3157	1 <del>el</del>	3.4)	0 0 0 0	3

Time (24hr)		Sky		Win (aver*/i	Total Street	Temp	(F)
1425	clear 2	S % cloud cover	hazy	44/5	)	75	described by
1500	clear ≥	% cloud cover	hazy	3.9		740	ni
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1 2 3 5	clear <	% cloud cover	hazy	5-10	•	51"	
8 ² (a) 5	clear 💍	% cloud cover	hazy		2	57	e e
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	clear	% cloud cover	hazy	- 21	7%		= 70
	clear	% cloud cover	hazy	(6)		303	
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	clear	% cloud cover	hazy	1 44.0	Porest No.	niem Barri da	
	clear	% cloud cover	hazy	4 (04 )	- +	1)(1	x 3
	clear	% cloud cover	hazy	(H#09)	20 2 6		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Gastilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph



lymphalidae (	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
2000000000	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Bluc)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	
7	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
- memorial con-	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
- 155	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
	vanessa virgimensis (viiginia Lady)	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th
		Papilioudae (Swallowtails)
	Inward Dutterflies	Papilio eurymedon (Pale Swallowtail)
Janaidae (Mi	ikweed buttermes)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus gilippus (Queen) Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
	Danus piempus (Monarch)	2 dpillo somethic control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con
Hesperidae	Erynnis funeralis (Funeral Dusky-wing)	Pieridae (Whites and Orangetips) :  Anthocharis cethura (Felder's Orangetip)  Anthocharis lanceolata (Grinnell's Marble)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis sara (Sara Orangetip)
	Hylephila phyleus (Fiery Skipper)	Annochus Sub (Sala Orangenty)  Artogeia rapae (Cabbage White)
	Pyrgus albescens (Checkered Skipper)	Colias eurythème (Alfalfa Butterfly)
		Colias barfordii (Harford's Sulfur)
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Euchloe hyantis lotta (Southern Marble)
(1)		
		Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow)
		Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)  Zerene eurydice (California Dogface)
		Zerene Euryanet (Cantonia Događev)
		Riodinidae (Metalmarks)
	156100 2714 2	Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		Satyridae (Satyrids)  Coenonympha californica (California Ringlet)
OWNER		
OTHER:		
		<del></del>

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## **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Pale Poise	Date 5/9/16	Site Visit N	lumber   !
Site Name	MAPS 4.5	Site Location	Millon	·
Total Acres:	Total Acres Surveyed:	Elevation	n: Max	Min
Hours Survey	ed: 5710"			

Time (24hr)	Sky	:-	Wind (aver*/max)	Temp (F)
1140	clear 🤭 % cloud cove	r hazy	2/4	670
1200	clear 80 % cloud cove	r hazy	3/6	5 8 B
1300	clear 🐴 % cloud cove	r hazy	47	710
1450	clear 40 % cloud cove	r hazy	5.18	73*
15.50	clear 25 % cloud cove	r hazy	4.18	710
1600	clear 15 % cloud cove	r hazy	5/2	730
1650	clear 1 % cloud cove	r hazy	417	700
	clear % cloud cove	r hazy	* No.	
	clear % cloud cove	r hazy		
3	clear % cloud cove	r hazy		
	clear % cloud cove	r hazy		
	clear % cloud cove	r hazy		
	clear % cloud cove	r hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antīrrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph

1-951-686-1497



nphalidae (Brush Footed Butterflies)  Euphydryas editha quino (Quino Checkerspot)  Adelpha bredowii californica (California Sister)  Basilarchia lorquini (Lorquin's Admital)  Charidryas gabbii (Gabb's Checkerspot)  Euphydryas chalcedona chalcedona  (Chalcedon Checkerspot)  Euphydryas chalcedona hennei  (Henne's Checkerspot)	Celastrina ladon echo (Echo Blue)  Everes amyntula (Western Tailed Blue)  Glaucopsyche lygdamus australis (Southern Blue)  Hemiargus ceraunus gyas (Edward's Blue)
Adelpha bredowii californica (California Sister)   Basilarchia lorquini (Lorquin's Admiral)   Charidryas gabbii (Gabb's Checkerspot)   Euphydryas chalcedona chalcedona   (Chalcedon Checkerspot)   Euphydryas chalcedona hennei	Celastrina ladon echo (Echo Blue)  Everes amyntula (Western Tailed Blue)  Glaucopsyche lygdamus australis (Southern Blue)
Basilarchia lorquini (Lorquin's Admital) Charidryas gabbii (Gabb's Checkerspot) Euphydryas chalcedona chalcedona (Chalcedon Checkerspot) Euphydryas chalcedona hennei	Glaucopsyche lygdamus australis (Southern Blue
Charidryas gabbii (Gabb's Checkerspot)  Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)  Euphydryas chalcedona hennei	Glaucopsyche lygdamus australis (Southern Blue)
Euphydryas chalcedona chalcedona (Chalcedon Checkerspot) Euphydryas chalcedona hennei	tr · · · · · · · · · · · · · · · · · · ·
(Chalcedon Checkerspot)  Euphydryas chalcedona hennei	Hemiargus ceraunus gyas (Euwara's Blue)
Euphydryas chalcedona hennei	
	Icarcia acmon (Acmon Blue)
	11 Tear Eta demon (Fortion 2 day)
Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
Phycoides mylitta (Mylitta Crescent)	
Polygonia satyrus (Satyr Anglewing)	
Speyeria callippe (Callippe Fritiliary)	Lycaenidae (Hairstreaks)
Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
, 31,55,12	(Perplexing Hairstreak)
Vanessa atalanta (Red Admiral)	Incisalia augustimus (Brown Elfin)
Vanessa cardui (Painted Lady)	A Strymon melinus (Gray Hairstreak)
Vanessa virginiensis (Virginia Lady)	
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	Papilionidae (Swallowtails)
anaidae (Milkweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtaii)
Danaus grappus (Quoon)  Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
Dantas presippes (Nontres)	
	Picridae (Whites and Orangetips)
lesperidae	Anthocharis cethura (Felder's Orangetip)
Erynnis funeralis (Funeral Dusky-wing)	Anthocharis lanceolata (Grinnell's Marble)
Heliopetes ericetorum (Great White Skipper)	Anthocharis sara (Sara Orangetip)
Hylephila phyleus (Fiery Skipper)	Artogeia rapae (Cabbage White)
Pyrgus alhescens (Checkered Skipper)	Colias eurytheme (Alfalfa Butterfly)
X	Colias barfordii (Harford's Sulfur)
	Euchloe hyantis lotta (Southern Marble)
	Eurema nicippe (Sleepy Orange)
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	Phoebis sennae (Cloudless sulfur)
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and the second second second second second	Zerene eurydice (California Dogface)
was the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	Lerene en yatte (Camonia Daginos)
	Rjodinidae (Metalmarks)
territoria de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición dela composición de la composición dela composición dela composición dela composición dela composición dela composición dela compos	Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
	Catepnens wright (wight 5 trictantale)
A Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Second State of the Seco	Satyridae (Satyrids)
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OTHER:	
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Ouino	Checkers	pot Sur	vey Form
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#### **Adult Assessment**

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Surveyor	Phile	Pores		Date 💆 🗀	-	Site Visit N		- W
Site Name	Moore	St. Yel	ς .	Site Locat	ion	Wira .	.at	- 5
Total Acres:		Total Ac	res Surveyed:	E	levation	: Max	Min	-
Hours Surve	yed: <u>\$'</u> '	1211	5 550	# C	u u	V 8	¥	19 19

Time (24hr)	Sky		Wind (aver*/max)	Temp (F)
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·	clear % cloud cover	hazy		1 (41.4)
. + 1/2)	clear 10% cloud cover	hazy		7:0
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	clear % cloud cover	hazy	E	
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



чуппризиове (к		
	Brush Footed Butterflies)  Euphydryas editha quino (Quino Checkerspot)	Lycaenidae (Blues).  Brephidium exilis (Pygmy Blue)
32	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Bluc)
	(Chalcedon Checkerspot)  Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
0.1	(Henne's Checkerspot)	Leptotes marina (Marine Bluc)
!	Junonia coenia (Buckeye) Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis antiope (Mourning Cloak)  Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Bluc)
	Phycoides mylitta (Mylitta Crescent)	A MODEL PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPER
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Red Admira)  Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa caraa (Faintea Lady) Vanessa virginiensis (Virginia Lady)	
		Papilionidae (Swallowtails)
Danaidae (Mill	cweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
	Heliopetes ericetorum (Great White Skipper) Hylenhila phyleus (Fiery Skipper)	Anthocharis Igneeolata (Grinnell's Marble)  Anthocharis sara (Sara Orangetip)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White)
- V		Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange)
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	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White)
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	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)
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OTHER:	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)
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OTHER:	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)

## (111)

## **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	JON	Pamell	I	Date 5 12/16	Site Visit	Number	
Site Name	(Ma	.0- 3		Site Location	Miromo	10	1.1
Total Acres:		<b>Total Acres</b>	Surveyed:	Elevar	tion: Max	Min	
Hours Survey	ed: 6'5	<b>ク</b>	<del>-</del>		-		

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
日30	clear 3ර	% cloud cover	hazy	5/9	720
1260	clear ್ಯಾಗ	% cloud cover	hazy	47	# 13 23
1300	clear 🛶 🗇	% cloud cover	hazy	4/4	9.53
1111x)	clear ূ 🗧	% cloud cover	hazy	2/6	Same of
- C35	clear	% cloud cover	hazy	Com & Cop	440
1140	clear \S	% cloud cover	hazy	417	733
76.2	clear 5	% cloud cover	hazy	5/9	6
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	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		5V

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph

Dale A Powell



	ush Footed Butterflies)  Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
		and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceruunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	larcia acmon (Acmon Blue)
11.20 11	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
-4-11	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria caillppe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	EAU AND STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF T
	, meson sugmensu ( inguin cau)	
	AND THE PARTY OF THE PARTY OF THE PARTY.	Papilionidae (Swallowtails)
langidge (Miller	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)
mididae (Wilky	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
-11	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
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lesperidae		Pieridae (Whites and Orangetips)
resperiede	Erynnis funeralis (Funcral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
TN.	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
	-	Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		Phoebis sennae (Cloudless sulfur)
0.5		Pontia protodice (Common White)
113		Zerene eurydice (California Dogface)
		Riodinidae (Metalmarks)
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Apodemia mormo virgulti (Behr's Metalmark)
		Calephelis wrighti (Wright's Metalmark)
		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
	, company of the company	
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## **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Jan Coult I	Date 5/-/ Site Visit	Number 17
Site Name	Maga 45	Site Location Mike	mar
Total Acres:	Total Acres Surveyed:	Elevation: Max	Min
Hours Survey	red: 510"		

Time (24hr)	Sky	er en en en en en en en en en en en en en	Wind (aver*/max	Yemp(F)
1140	clear 25 % cloud cover	hazy	2/4	670
1200	clear 80 % cloud cover	hazy	3/6	690
1300	clear 65 % cloud cover	hazy	47	710
:५०७	clear 40 % cloud cover	hazy	5/8	730
1560	clear 25 % cloud cover	hazy	418	710
1600	clear \5 % cloud cover	hazy	5/8	730
1650	clear ; 9 % cloud cover	hazy	· 4/7	Fod
	clear % cloud cover	hazy		174, 18 1947
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		A Gernary
11	clear % cloud cover	hazy	g) at the little to the	34 ST T
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



Nymphalidae (I	Brush Footed Butterflies)	Lycaenidae (B	lues)s 25% 35% 35%
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	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorguini (Lorquin's Admiral)	:4	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	2	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)		Hemiargus ceraurus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)		Icarcia acmon (Acmon Blue)
111	Junonia coenia (Buckeye)	4 1464	Leptotes marina (Marine Blue)
11	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	4	
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (I	Dirstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
[ [	Vanessa annabella (West Coast Lady)	2.1	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	144-(14) 44	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	K-1	
	1-1-1-1	Papilionidae (	(Swallowtails)
Danaidae (Mill	kweed Butterflies)		Papilio eurymedon (Pale Swallowtail)
Statutoso (	Danaus gilippus (Queen)	110	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)	10	Papilio zelicaon (Anise Swallowtail)
		Disable (CDR)	ites and Orangetips)(3)
Hesperidae -		Eleverage de Mari	Anthocharis cethura (Felder's Orangetip)
	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis lanceolata (Grinnell's Marble)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis sara (Sara Orangetip)
1100	Hylephila phyleus (Fiery Skipper)	——————————————————————————————————————	Artogeia rapae (Cabbage White)
WT.	Pyrgus albescens (Checkered Skipper)	<del>- 1</del>	Colias eurytheme (Alfalfa Butterfly)
- ii			Colias harfordii (Harford's Sulfur)
	And the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o		Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
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		1341	Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
	Control of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s	117 K (127 K)	
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		STANISTS	
		Satyridae (Sa	
	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Coenonympha californica (California Ringlet)
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## Quino Checkerspot Survey Form

#### **Adult Assessment**

Surveyor	Pawell	Date	Site Visit N	umber	
Site Name \ \M	ing suff	_ Site Location _ 1	Milamal	8 <u>1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 ×</u>	
Total Acres:	Total Acres Surveyed	: Elevatio	on: Max	Min	
Hours Surveyed:	E 45"	9 1		No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No. 18 No	

Time (24hr)	Sky		Wind ( (aver*/max)	Temp (F)
17.0	clear 95 % cloud cover	hazy	n/o	1273
1200	clear 🐔 % cloud cover	-hazy	2/4	692
: 3E	clear 10 % cloud cover	hazy	3/5	720
1400	clear 5 % cloud cover	hazy	416	720
1-30	clear 5 % cloud cover	hazy	4/6	730
1660	clear 35 % cloud cover	hazy	3/5	730
900	clear 50 % cloud cover	hazy	4/6	680
171	clear 50 % cloud cover	hazy	416	578
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		1
	clear % cloud cover	hazy	8.8	
	clear % cloud cover	hazy		1 1 1 1 1
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph

Location Messe	ON GORGE AREA	Survey Segment Survey	MOEN (7)	)
	CHATMAN .	Date 15 may 2016 Survey Week	Number (1	2)
Total Acres:	Portion Surveyed:	Elevation: Max	Min	

Time (24 hr)	% Cloud	Sky Wind (range)	Temp (F)
Start // -00	30%	clear patchy overcast drizzle shower Z-3ah	67° R
12:00	20%	clear patchy overcast drizzle shower 2-5m	6905
13:00	20%	clear patchy overcast drizzle shower 3-5-	70°E
		clear patchy overcast drizzle shower	
		clear patchy overcast drizzle shower	
	7	clear patchy overcast drizzle shower	
Stop /4:00	10%	clear patchy overcast drizzle shower 4-6-	73°E

Habitat onsite (circle as applicable) httlltops ridges, ock outcrops open soils soil crusts clay soils, old roads Plantago, Castilleja, Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	110	
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodenia mormo (Mormon Metalmark)	HO	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)	-	
Junonia coenia (Common Buckeye)		X	Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Rcd Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)	2		Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	1	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	4	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	2		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)	4				
Glaucopsyche lygdamus (Southern Blue)	1				
Icarcia acmon (Acmon Blue)					
Celastrina ladon (Echo Blue)					

Surveyor Gast Common Segment # Sugar MEN (7) Date: 15 may 2016 Comments: Plant Communities and Habitat Information: Plantago erecta **Host Plants Present: Nectar Plants Present:** EXAME AS BEFORE ☐ Quino Sighting Date: **GPS Location:** Photographs Taken: 1. 2. 4. 5. 6. 7. 8. 9. 10. 11.

Location 5Av u	LLEVE DES.	SMU DIEVO A	Much Mal-Survey Seg Date 16 may 70/6	ment Sulle	MADA (8)
Surveyor and	CHAMMAN		Date 16 mm 2016	Survey Wee	k Number (12)
Survey Partner(s)			-		G/
Total Acres	Portion Surve	ved·	Fleva	tion: May	Min

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start // 100	300%	clear patch overcast drizzle shower	3-6 up	64° R
17:00	300%	clear patchy overcast drizzle shower	3-6up	66° F
13:00	200%	clear patchy overcast drizzle shower	Ubuk	67-R
14:00	200%	clear patchy overcast drizzle shower	5-74h	68° P
15:00	200/0	clear patch overcast drizzle shower	6-8nh	68°E
		clear patchy overcast drizzle shower		
Stop 16:00	20%	clear patchy overcast drizzle shower	6-84h	670 p

Habitat onsite (circle as applicable) hilltops, ridges, ock outcrops, open soils, soil crust clay soils old roads Plantago Castilleja, Cordylanthus, Antirrhinum nectar sources.

Butterfly Species	Count Hill- (Total) toppin	1 And Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)	7	Jacob P 100
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)	+10	
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)	17	*
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)	2	Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)	1	
Danaus plexippus (Monarch)	1	Pontia protodice (Checkered White)	110	
Hesperidae		Colias eurytheme (Orange Sulphur)	3	
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	1	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS: Phoeby Senner		
Erynnis propertius (Propertius Duskywing)		(Cloudless sulphan)		
Ochlodes agricola (Rural Skipper)		The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa		
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)	5			
Glaucopsyche lygdamus (Southern Blue)				
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

Surveyor Lips Cutton Segment # Sulvey Mage (8) Date: 16 may 2016 Comments: Plant Communities and Habitat Information: Plantago erecta **Host Plants Present:** Nectar Plants Present: Stone MS BEFURE ☐ Quino Sighting Date: **GPS Location:** Photographs Taken: 1. 2. 3. 4. 6. 5∙ 7-8. 9.

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Location	SOUTH	TREFFINENT PLANET	Survey Segment Survey Week	AREN (4)
		CHATMAN	Date 18 mm 2016 Survey Week	Number (12)
Survey Par	rtner(s)		0	C
Total Acre	s:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	Sky	e Canal		Wind (range)	Temp (F)
Start /0-00	250/0	clear patchy overcast	drizzle	shower	4-6 m/n	660 F
11:00	250/0	clear patchy overcast	drizzle	shower	4-6 h	65°152
12:00	15%	clear patchy overcast	drizzle	shower	7-9 m/n	68° K
13:00	15%	clear patchy overcast	drizzle	shower	6-9ul	70°F
14:00	15%	clear patchy overcast	drizzle	shower	5-8nh	7106
15:00	25%	clear vatchy overcast	drizzle	shower	6-9wh	710R
Stop 16:00	25%	clear patch overcast	drizzle	shower	busing	70°F

Habitat onsite (circle as applicable): hilltops ridges, rock outcrops, open soils soil crusts, day soils old roads Plantago Castilleja, Cordylanthus, Antirrhinum, occiar sources.

Butterfly Species	Count I	Butterfly Species	Count	Hill- toppin
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)	+10	HARLE PROD
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Bluc)	2	
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)	+10	
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)	1	4
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)	1	
Vanessa virginiensis (American Lady)	5	Anthocharis cethura (Desert Orangelip)		
Danaidae		Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)	2	
Danaus plexippus (Monarch)	1	Pontia protodice (Checkered White)	6	
Hesperidae		Colias eurytheme (Orange Sulphur)	2	
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)	3	Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	2	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			,	
Erynnis propertius (Proportius Duskywing)		(Adelpha bredowii californi	(4)	
Ochlodes agricola (Rural Skipper)		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)	410			
Glaucopsyche lygdamus (Southern Blue)				
Icarcia acmon (Acmon Blue)				
Celastrina ladon (Echo Blue)				

Surveyor West CHATMAN Segment # 5 May ARCA (4) Date: 18 may 7016 Comments: **Plant Communities and Habitat Information: Host Plants Present: Nectar Plants Present:** ☐ Quino Sighting **GPS** Location: Date: Photographs Taken: 2. 3. 4. 5. 6. 7. 8. 9.

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ymphalidae (1	Brush Footed Butterflies)	Lycaenidae (B	lues)
	Euphydryas editha quino (Quino Checkerspot)	1411	Brephidium exilis (Pygmy Blue)
<u> </u>	Adelpha bredowii californica (California Sister)	-	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
P-1	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	ĭ	3/2 (22.17.47)
	Euphydryas chaicedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	1111	1001010 0011011 (1100101)
411	Junonia coenia (Buckeye)	-	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
			Tiebejus menssu (Monssa Bluc)
	Phycoides mylitta (Mylitta Crescent)	ļ	
	Polygonia satyrus (Satyr Anglewing)	T-P'A STATE OF THE	lairstreaks)
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (t	
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	4.1	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	11 -	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	IN M	Strymon melinus (Gray Hairstreak)
123	Vanessa virginiensis (Virginia Lady)	, ,	
		9	
	//	Papilionidae (	Swallowtails)
anaidae (Mill	cweed Butterflies)	7	Papilio eurymedon (Pale Swallowtail)
taracter (area	Danaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtaii)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anisc Swallowtail)
lesperidae		Pieridae (Whi	tes and Orangetips)
177	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
1	Hylephila phyleus (Fiery Skipper)	11	Anthocharis sara (Sara Orangetip)
- 12	Pyrgus albescens (Checkered Skipper)	1	Artogeia rapae (Cabbage White)
- 1 //	17/18/20 01/10/10/10 (00/10/10/10/10/10/10/10/10/10/10/10/10/1	111	Colias eurytheme (Alfalfa Butterfly)
		1-1	Colias harfordii (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
	- Anna III III III III III III III III III		Phoebis sennae (Cloudless sulfur)
		1111	Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
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	16)	1	Apodemia mormo virgulti (Behr's Metalmark)
			Calephelis wrighti (Wright's Metalmark)
	rvinore Servino - Option - Option		Total Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the
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**p.9** 

## **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	Dale Powell		Site Visit N	umber 2
Site Name	Macilia	_ Site Location	Mison	4.4.C
Total Acres:	Total Acres Surveyed:	Elevation	on: Max	Min
Hours Survey	yed: 55			

Time (24hr)	· · · · · ·	Sky	* *	Wind (aver*/max)	Temp (F)
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Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

lymphalidae (H	rush Footed Butterflies)	Lycaenidae (Blues)
111111111111111111111111111111111111111	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona	Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)	
	Euphydryas chalcedona hennei	Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)	1000
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum
* 1	Vanessa annabella (West Coast Lady)	(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
		Strymon melinus (Gray Hairstreak)
	Vanessa cardui (Painted Lady)	
	Vanessa virginiensis (Virginia Lady)	
		Papilionidac (Swallowtails)
		Papilio eurymedon (Pale Swallowtail)
Danaidae (Milk	weed Butterflies)	Papilio rutulus (Western Tiger Swallowtail)
	Danaus gilippus (Queen)	Papilio zelicaon (Anise Swallowtail)
	Danaus plexippus (Monarch)	Papino zencaon (Ainse Swanowian)
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	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
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		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
		Zerene eurydice (California Dogface)
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## **Quino Checkerspot Survey Form**

## Adult Assessment

Surveyor	· Pour !	Date 5/5/16	Site Visit	Number 12
Site Name M	a 6 3	Site Location	T Jav	4.04
Total Acres:	Total Acres Surveyed	Elevati	ion: Max	Min
Hours Surveyed: 💆	200 11	21	.88	

Time (24hr)	14	Sky	8	Wind (aver*/max)	Temp (F)
1505	clear 50	% cloud cover	hazy	5/7	720
1500	clear 65	% cloud cover	hazy	3/6	69"
1705	clear 🧢	% cloud cover	hazy	3/5	6.9
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	551	4
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
A.	clear	% cloud cover	hazy	9 .	,
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
5 x	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

1-951-686-1497

May 22 16 09:21p



vmphalider (Brush	Footed Butterflies)	Lycaenidae (	Blues)
E	aphydryas editha quino (Quino Checkerspot)	W.	Brephidium exilis (Pygmy Blue)
A	lelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	asilarchia lorquini (Lorquin's Admiral)	Barrer and the second	Everes amyntula (Western Tailed Blue)
	haridryas gabbii (Gabb's Checkerspot)		Glaucopsyche tygdamus australis (Southern Blue)
	phydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
-	(Chalcedon Checkerspot)		
E:	iphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
Jz	nonia coenia (Buckeye)		Leptotes marina (Marine Blue)
	emphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	emphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	hycoides mylitta (Mylitta Crescent)		
	olygonia satyrus (Satyr Anglewing)		
	peyeria callippe (Callippe Fritillary)	Lycaenidae (	(Hairstreaks)
	nessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
	anessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum
14 2	messa annabena (11 est coust Exist)		(Perplexing Hairstreak)
	anessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	messa cardui (Painted Lady)	111	Strymon melinus (Gray Hairstreak)
	anessa virginiensis (Virginia Lady)	1	A Section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sect
	messa vagimensis (vagana Dady)	- <del> </del>	
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Panilionidae	(Swallowtails)
14. O CII.	1 Butterflies)	Tapmomado	Papilio eurymedon (Pale Swallowtail)
	anaus gilippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
	anaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
	unaus piexippus (Wollatti)		A depute desired by (1 date of the date)
	ylephila phyleus (Fiery Skipper) yrgus albescens (Checkered Skipper)	Riodinidae (	Anthocharis sara (Sara Orangetip) Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchioe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Metalmarks) Apodemia mormo virguiti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)
THER:		Satyridae (S	atyrids)  Coenonympha californica (California Ringlet)



### **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor N	ale Guril	Date 5/16/16	Site Visit	Number 12
Site Name	Mass - 45	Site Location		.4024
Total Acres:	Total Acres Surveye	d: Elevation	on: Max	Min
Hours Surveyed:	5/15/1	\ <del></del>	. 411	

Time (24hr)		Sky	The sect Helicator	Wind (aver*/max)	Temp (F)
1145	clear o	% cloud cover	hazy	. 27 [-3]	- 6
1.75	clear	% cloud cover	hazy	7 H	677
[4]]) - [	clear 5	35 % cloud cover	hazy	3/6	76
1500	clear	% cloud cover	hazy	- 1/2	69 0
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	vi	Α
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
2 % =	clear	% cloud cover	hazy		
4.1	clear	% cloud cover	hazy		
-	clear	% cloud cover	hazy	*	
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago eregta, Plantago patagonica, Castilleja exserva, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

#### **COMMENT:**

1012-1142 Storm Copper Small



	Brush Footed Butterflies)	Lycaemdae (B	lues)
	Euphydryas editha quino (Quino Checkerspot)	11/2	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	2000	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chaicedona chaicedona (Chaicedon Checkerspot)		Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	1.1	Icarcia acmon (Acmon Blue)
111	Junonia coenia (Buckeye)	HI	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	PUL	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)		
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (H	airstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
1 3	Vanessa annabella (West Coast Lady)		Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa atatanta (Red Adilina)  Vanessa cardui (Painted Lady)		Strymon melinus (Gray Hairstreak)
	Vanessa carati (Fainted Lady)  Vanessa virginiensis (Virginia Lady)	, , ,	on finon morning ( oray tautousday
	Vanessa virginiensis (Vilginia Lauy)	-time-	
		Papilionidae (S	Swallowtails)
Danaidae (Milk	weed Butterflies)		Papilio eurymedon (Pale Swallowtail)
	Danaus gifippus (Queen)		Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
		Disrides (Whit	tes and Orangetips)
Tesperidae	Erynnis funeralis (Funeral Dusky-wing)	r ici idac ( wait	Anthocharis cethura (Felder's Orangetip)
111	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
151.750	Hylephila phyleus (Fiery Skipper)		Anthocharis sara (Sara Orangetip)
[H*	Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)
417	Tyrgus thoescens (Checketed Bidpper)	1	Colias eurytheme (Alfalfa Butterfly)
			Colias harfordii (Harford's Sulfur)
	· · · · · · · · · · · · · · · · · · ·		Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Nathalis iole (Dwarf Yellow)
			Phoebis sennae (Cloudless sulfur)
		126 11	Pontia protodice (Common White)
			Zerene ewydice (California Dogface)
			a granda a ser a como as asserbles.
		Riodinidae (M	(etalmarks)
	W 4 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	No.	Apodemia mormo virgulti (Behr's Metalmark)
		/	Calephelis wrighti (Wright's Metalmark)
		g staget in	
	Serve St. Plant '	Satyridae (Sat	
	*		Coenonympha californica (California Ringlet)
OTHER:			
JIHER:		1	
OTAEK:			
OTAER			

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## **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	late found	Date 577/16	Site Visit I	Number 12_
Site Name	Mar 3,	_ Site Location _	N'irana	· · · · · · · ·
Total Acres:	Total Acres Surveyed:	Elevat	ion: Max	Min
Hours Surveyed:	<u></u>			٥

Time (24hr)	H25	Sky	55 es = # 34	Wind (aver*/max)	Temp (F)
17 45	clear O	% cloud cover	hazy	2/4	700
र्भ प्र	clear 🌱	% cloud cover	hazy :	5/10	49 °
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy	1	
	clear	% cloud cover	hazy	12	
	clear	% cloud cover	hazy		- W
	clear	% cloud cover	hazy		. 4
	clear	% cloud cover	hazy		Xg
	clear	% cloud cover	hazy		
- te	clear	% cloud cover	hazy		illa-Ove
	clear	% cloud cover	hazy	9 3	
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		* *

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

COMMENT:

12:30-13:5 Stine Follows Enemy



	ish Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	The Court of the
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Phritis Hairstreak)
	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
I	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
15	Vanessa virginiensis (Virginia Lady)	Constitution (Otto) American
	Tunessa Virginiensis (Virginia Lauy)	<u> </u>
		Panilionidae (Swallowtails)
Sensidas (2 dill	ed Butterflies)	Papilionidae (Swallowtails)  Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
		Papilio zelicaon (Anise Swallowtail)
	Danaus plexippus (Monarch)	1 apino zencaon (Alisa Swallowaii)
	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Erynnis funeralis (Funeral Dusky-wing)  Heliopetes ericetorum (Great White Skipper)  Hylephila phyleus (Fiery Skipper)  Pyrgus albescens (Checkered Skipper)	Anthocharis lanceolata (Grinnell's Marble) Anthocharis sara (Sara Orangetip)  Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)
	Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis lanceolata (Grinnell's Marble) Anthocharis sara (Sara Orangetip)  I Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark)
	Heliopetes ericetorum (Great White Skipper) Hylephila phyleus (Fiery Skipper)	Anthocharis lanceolata (Grinnell's Marble) Anthocharis sara (Sara Orangetip)  i Artogeia rapae (Cabbage White) Colias eurytheme (Alfalfa Butterfly) Colias harfordii (Harford's Sulfur) Euchloe hyantis lotta (Southern Marble) Eurema nicippe (Sleepy Orange) Nathalis iole (Dwarf Yellow) Phoebis sennae (Cloudless sulfur) Pontia protodice (Common White) Zerene eurydice (California Dogface)  Riodinidae (Metalmarks) Apodemia mormo virgulti (Behr's Metalmark) Calephelis wrighti (Wright's Metalmark) Satyridae (Satyrids)

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## **Quino Checkerspot Survey Form**

## *Adult Assessment

Surveyor	Jun	Pausel	Date	sishe	Site Visit N	Number	2
Site Name	MAR	, 3	Sit	e Location	Mican	A 5	
Total Acres:		Total Acres Surveyed	d:		on: Max	Min	
Hours Surve	yed: Si	oε"	-		9		

Time (24hr)	- 31	Sky	Topiani I	Wind (aver*/max)	Temp (F)
12 00	clear 7	% cloud cover	hazy	47	710
3.33	clear 🕏	5 % cloud cover -	hazy	519	€ 0°
MACHINE IN	clear (	⋄ % cloud cover	hazy	48	713
1500	clear 🤼	5 % cloud cover	hazy	52	720
1600	clear 4.	% cloud cover	hazy	1/5.	8.40
705	clear S	5 % cloud cover	hazy	1 4	43 6
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
8 1	clear	% cloud cover	hazy		59
american Shanishira	clear	% cloud cover	hazy		A
กั	clear	% cloud cover	hazy		
(2 74)	clear	% cloud cover	hazy	1. 1	
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



ymphalidac	(Brush Footed 1986 (Bies)	Lycaenidae (E	A CONTRACT OF THE PROPERTY OF TAXABLE PARTY OF TAXABLE PA
	Euphydryd Canna quing (Quino Checkerspot)		Brephidium exilis (Pygmy Blue)
ĺ	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	2	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)		Glaucopsyche lygdamus australis (Southern Blue
	Euphydryas chalcedona chalcedona		Hemiargus ceraunus gyas (Edward's Blue)
	(Chalcedon Checkerspot)		
	Euphydryas chalcedona hennei		Icarcia acmon (Acmon Blue)
	(Henne's Checkerspot)		
111	Junonia coenia (Buckeye)		Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	34	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	8	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	7 013-23-03-03	
2 - 151 - 152 - 142 - 144 - 145 - 145 - 145 - 145 - 145 - 145 - 145 - 145 - 145 - 145 - 145 - 145 - 145 - 145 -	Polygonia satyrus (Satyr Anglewing)	- W	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (F	
	Thessalia leanira wrighti (Leanira Checkerspot)		Atlides halesus (Great Purple Hairstreak)
211	Vanessa annabella (West Coast Lady)	10 8	Callophyrs perplexa = dumetorum
- 411			(Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	1	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	July 10	Strymon melinus (Gray Hairstreak)
1	Vanessa virginiensis (Virginia Lady)		4 2004 4
	3	Papilionidae (	
anaidae (Mi	lkweed Butterflies)		Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	A	Papilio rutulus (Western Tiger Swallowtail)
	Danaus plexippus (Monarch)		Papilio zelicaon (Anise Swallowtail)
[esperidac ]		Pieridae (Whi	tes and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
34	Hylephila phyleus (Fiery Skipper)		Anthocharis sara (Sara Orangetip)
1-1	Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)
			Colias eurytheme (Alfalfa Butterfly)
			Colias harfordil (Harford's Sulfur)
			Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
			Nathalis iole (Dwarf Yellow)
			Phoebis sennae (Cloudless sulfur)
			Pontia protodice (Common White)
			Zerene eurydice (California Dogface)
			T.
	1114		
		Riodinidae (M	
		1111	Apodemia mormo virgulti (Behr's Metalmark)
			Calephelis wrighti (Wright's Metalmark)
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Quino	Checkers	pot Survey	Form
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#### **Adult Assessment**

Surveyor	Tun Pruell	Date 5/16/16	Site Visit	Number 12
Site Name	Maria	Site Location	Miram	76
Total Acres:	Total Acres Survey	ed: Elevation	on: Max	Min
Hours Surveyed	<u>515"</u>	a 101		50: E

Time (24hr)	1000	Sky	120000	Wind (aver*/max)	Temp (F)
1745	clear ⊆o	% cloud cover	hazy	<u> </u>	<u>६२ *</u>
2.47	clear as	% cloud cover	hazy	7.17	1 × (
	clear 🔆	% cloud cover	hazy	36	705
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	clear	% cloud cover	hazy	Yan a Y	(A)
	clear	% cloud cover	hazy	1 - 5 - 41 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

## **COMMENT:**

1015-1145 Stand Francisco June



22 16 09:29p	Dale A Powell	÷	1-951-686-1497 p.28
	• E _{mi}		
	sh Footed Butterflies)		(Blues):
	Euphydryas editha quino (Quino Checkerspot)	Till -	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)		Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)		Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	1	Glaucopsyche lygdamus australis (Southern)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)		Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	LUF	
Mi .	lunonia coenia (Buckeye)	11	Leptotes marina (Marine Blue)
1	Nymphalis antiope (Mourning Cloak)		Philotes sonorensis (Sonoran Blue)
	Vymphalis californica (California Tortoiseshell)		Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)		
	Polygonia satyrus (Satyr Anglewing)	1	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae	(Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	1	Atlides halesus (Great Purple Hairstreak)
	Vanessa annabella (West Coast Lady)	, st	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)		Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	HTH	
	Vanessa virginiensis (Virginia Lady)	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
		D. 2012.006	e (Swallowtails)
Describes (Milleres	ad Dustandian	Евриюния	Papilio eurymedon (Pale Swallowtail)
Danaidae (Milkwe			Papilio rutulus (Western Tiger Swallowtail)
	Danaus gilippus (Queen) Danaus plexippus (Monarch)	on the same	Papilio zelicaon (Anise Swallowtail)
			3/10/2007
Hesperidae		Picridae W	Inites and Orangetips)
	Erynnis funeralis (Funeral Dusky-wing)		Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)		Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)		Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)		Artogeia rapae (Cabbage White)
	AARL A TABLET		Colias eurytheme (Alfalfa Butterfly)
	11 - 12 - 14 - 14 - 14 - 14 - 14 - 14 -	4	Colias harfordii (Harford's Sulfur)
	Concerns the second		Euchloe hyantis lotta (Southern Marble)
			Eurema nicippe (Sleepy Orange)
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		1	Phoebis sennae (Cloudless sulfur)
12000000		10	Pontia protodice (Common White)
	2002 2002 2002 2002 2002 2002 2002 200	·	Zerene eurydice (California Dogface)
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## **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Jun Gmise!	Date 5/17/16 Site	Visit Number 12
Site Name	Mass 3,4		110-21
Total Acres:	Total Acres Surveyed	d: Elevation: M	ax Min
Hours Surveye	d:1'0\\\^2	T	· ·

Time (24hr)		Sky	California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de California de Ca	Wind (aver*/max)	Temp (F)
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	clear	% cloud cover	hazy	11	
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

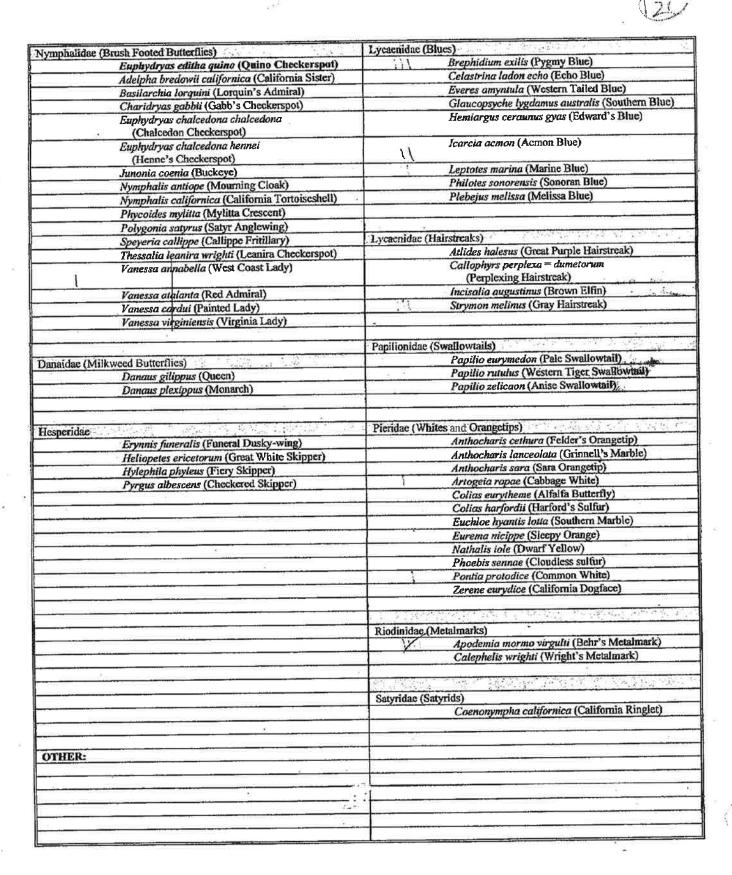
Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulteriamum, Collinsia heterophylla

*20 second period, mph

#### **COMMENT:**

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(51)

## **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	Dale Pawall	Date 5 2 16	Site Visit	
Total Acres:	Total Acres Surveyed		ion: Max	Min
Hours Survey	red: 4'30'			

Time (24hr)	Sky	n With the	Wind (aver*/max)	Temp (F)
1130	clear > 8 % cloud cover	hazy	3/.5	740
Late Contract	clear % cloud cover	hazy	. J	=147
1360	clear   % cloud cover	hazy	1) [4	コンジ
1000	clear % cloud cover	hazy	7/1/20	
1500	clear % cloud cover	hazy	73 %	7
1530	clear 5% cloud cover	hazy	1 4	720
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		2
	clear % cloud cover	hazy		22011
	clear % cloud cover	hazy		
· · · · · · · · · · · · · · · · · · ·	clear % cloud cover	hazy		·
	clear % cloud cover	hazy	2	
	clear % cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhimm coulterianum, Collinsia heterophylla

*20 second period, mph

·	(13)
97	

## **Quino Checkerspot Survey Form**

## Adult Assessment

Surveyor	Dale	Pawall	Date 🤇	12:16	Site Visit	Number :	
Site Name	get.	103.4	Site Lo		Myan		
Total Acres:		Total Acres Surveye	ed:		on: Max	Min	_
<b>Hours Surve</b>	yed:	- 4					_

Time (24hr)		Sky		Wind (aver*/max)	Temp (F)
1130	clear )	% cloud cover	hazy	3/5	740
1 / V ( ) 2 / V	clear 😲	% cloud cover -	bazy	il o	347
1360	clear 17	% cloud cover	hazy	-)   4	75. ⁷
100	clear	% cloud cover	hazy	d' 16	1.1
5 * 1.2 °	clear	% cloud cover	hazy	G .,	7
7.0	clear	% cloud cover	hazy		4
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-	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		15-418-1111-
S N	clear	% cloud cover	hazy		57
	clear	% cloud cover	hazy	a 3	
31 12	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

^{*20} second period, mph



	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Blue)
	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
V	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
	Phycoides mylitta (Mylitta Crescent)	Evali lates homeding Spine
	Polygonia satyrus (Satyr Anglewing)	- Cabition Capability Print
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
11	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa alatania (Red Admiral)  Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	Su ymon metutus (Glay Hansucak)
- /*		Papilionidae (Swallowtails)
Danaidae (Milk	weed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtail)
1	Danaus plexippus (Monarch)	Papilio zelicaon (Anisc Swallowtail)
Hesperidae		Pieridae (Whites and Orangetips)
Reportatio	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	. Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
11	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
	- A. M	Colias eurytheme (Alfalfa Butterfly)
	- 1754HO - 3152 - 32-11 - 3100000000000000000000000000000000	Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
	100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 100 CO 10	Nathalis iole (Dwarf Yellow)
1.1.		Phoebis sennae (Cloudless sulfur)
	ALILIA TO THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTA	Pontia protodice (Common White)
	**************************************	Zerene ewydice (California Dogface)
		Acres de montante de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de
		Riodinidae (Metalmarks)
		Apodemia mormo virgulti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
OTHER:		
	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	

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## **Quino Checkerspot Survey Form**

## **Adult Assessment**

Surveyor	Jun Pravell	Date 5/23/16	Site Visit	Number <u>, 2</u>
Site Name	Map 3.4	Site Location	$M'_i v_0$	van. of
Total Acres:	Total Acres Surveyer	d: Elevat	ion: Max	Min
Hours Surveye	d: 7'30"	i i	H18	

Time (24hr)		Sky	"Season" 9 # 6	Wind (aver*/max)	Temp (F)
1330	clear 🦪	0 % cloud cover	hazy	3/5	740
1200	clear (	% cloud cover -	hazy	3/6	740
1300	clear	0 % cloud cover	hazy	214	ネジ
1-1100	clear 🦚		hazy	3/6	76°
1500	clear	/ % cloud cover	hazy	314	7.50
ELA	clear	5 % cloud cover	hazy	214	720
100	clear	% cloud cover	hazy		•
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
, , ,	clear	% cloud cover	hazy	a	
0,	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		
	clear	% cloud cover	hazy		

Habitat onsite: open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph

p.14

## **Quino Checkerspot Survey Form**

#### **Adult Assessment**

Surveyor	Jun Powell	Date _	6/23/16	Site Visit	Number $\sqrt{2}$	_
Site Name	M00 3.4		Location	Mive		
Total Acres:	Total Acres Surveyed	:	Elevation	n: Max	Min	
Hours Surveyed	:	8	7 8	<del>,</del> ()	9	

Time (24hr)	Sky	A	Wind (aver*/max)	Temp (F)
1130	clear 20% cloud cover	bazy	315	740
1200	clear 15% cloud cover	hazy	3/6	740
1300	clear 10 % cloud cover	hazy	214	75
COS	clear (6 % cloud cover	hazy	3/6	760
1445	clear 1/1 % cloud cover	hazy	31/2	750
• .	clear % cloud cover	hazy		
	clear % cloud cover	hazy	3	
	clear % cloud cover	hazy		15 0
	clear % cloud cover	hazy		i i i i i i i i i i i i i i i i i i i
	clear % cloud cover	hazy		
	clear % cloud cover	hazy		
2 21; Y	clear % cloud cover	t hazy		
	clear % cloud cover	hazy	7 - W - W - C - C - C - C - C - C - C - C	

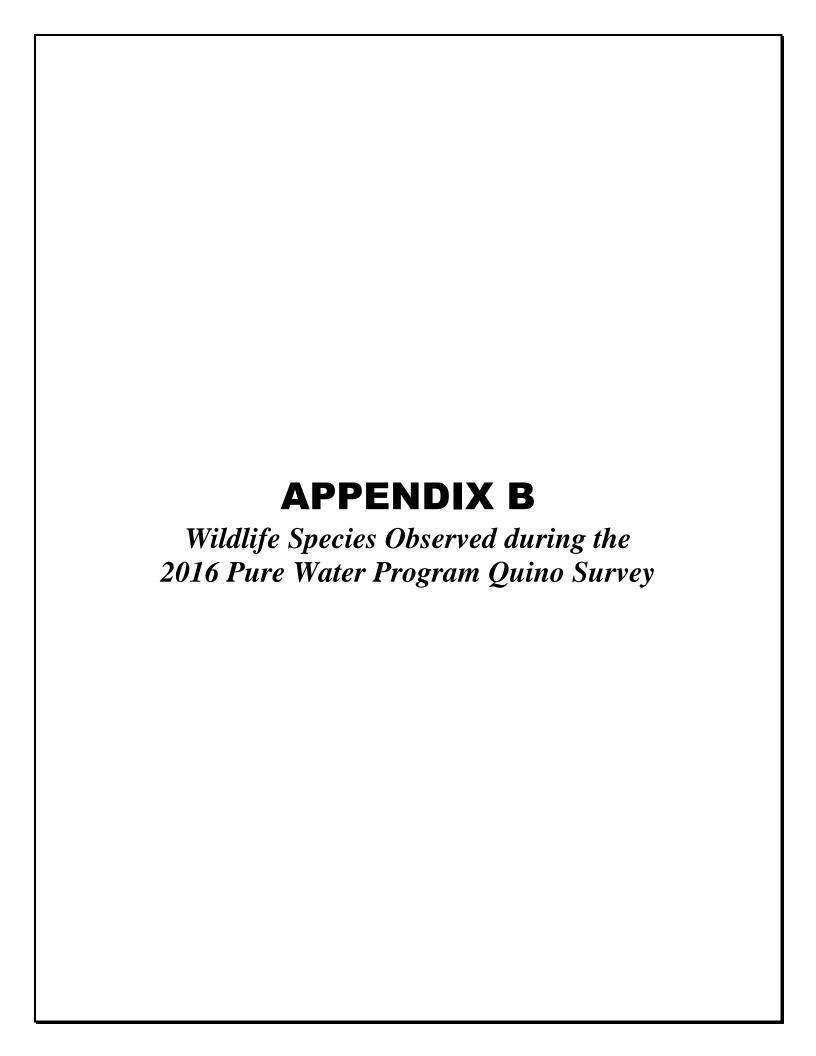
Habitat onsite: open soils, hilltops, tidges, rock outcrops, soil crusts, clay soils, old roads, nectar sources

Plantago erecta, Plantago patagonica, Castilleja exserta, Cordylanthus rigidus, Antirrhinum coulterianum, Collinsia heterophylla

*20 second period, mph



Nymphalidae (	Brush Footed Butterflies)	Lycaenidae (Blues)
	Euphydryas editha quino (Quino Checkerspot)	Brephidium exilis (Pygmy Bluc)
- 11	Adelpha bredowii californica (California Sister)	Celastrina ladon echo (Echo Blue)
	Basilarchia lorquini (Lorquin's Admiral)	Everes amyntula (Western Tailed Blue)
	Charidryas gabbii (Gabb's Checkerspot)	Glaucopsyche lygdamus australis (Southern Blue)
	Euphydryas chalcedona chalcedona (Chalcedon Checkerspot)	Hemiargus ceraunus gyas (Edward's Blue)
****	Euphydryas chalcedona hennei (Henne's Checkerspot)	Icarcia acmon (Acmon Blue)
	Junonia coenia (Buckeye)	Leptotes marina (Marine Blue)
	Nymphalis antiope (Mourning Cloak)	Philotes sonorensis (Sonoran Blue)
	Nymphalis californica (California Tortoiseshell)	Plebejus melissa (Melissa Blue)
77.07	Phycoides mylitta (Mylitta Crescent)	111 tuphilates hornardies (5 & alu
	Polygonia satyrus (Satyr Anglewing)	
	Speyeria callippe (Callippe Fritillary)	Lycaenidae (Hairstreaks)
	Thessalia leanira wrighti (Leanira Checkerspot)	Atlides halesus (Great Purple Hairstreak)
1	Vanessa annabella (West Coast Lady)	Callophyrs perplexa = dumetorum (Perplexing Hairstreak)
	Vanessa atalanta (Red Admiral)	Incisalia augustinus (Brown Elfin)
	Vanessa cardui (Painted Lady)	Strymon melinus (Gray Hairstreak)
	Vanessa virginiensis (Virginia Lady)	
		Papilionidae (Swallowtails)
anaidae (Mill	cweed Butterflies)	Papilio eurymedon (Pale Swallowtail)
	Danaus gilippus (Queen)	Papilio rutulus (Western Tiger Swallowtnif)
	Danaus plexippus (Monarch)	Papilio zelicaon (Anise Swallowtail)
esperidae		Picridae (Whites and Orangetips)
Coposition	Erynnis funeralis (Funeral Dusky-wing)	Anthocharis cethura (Felder's Orangetip)
	Heliopetes ericetorum (Great White Skipper)	Anthocharis lanceolata (Grinnell's Marble)
	Hylephila phyleus (Fiery Skipper)	Anthocharis sara (Sara Orangetip)
	Pyrgus albescens (Checkered Skipper)	Artogeia rapae (Cabbage White)
		Colias eurytheme (Alfalfa Butterfly)
		Colias harfordii (Harford's Sulfur)
		Euchloe hyantis lotta (Southern Marble)
		Eurema nicippe (Sleepy Orange)
		Nathalis iole (Dwarf Yellow)
		! Phoebis sennae (Cloudless sulfur)
		Pontia protodice (Common White)
	14 A-848 - 410 W U A	Zerene eurydice (California Dogface)
	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	Riodinidae (Metalmarks)
		Apodemia mormo virguiti (Behr's Metalmark)  Calephelis wrighti (Wright's Metalmark)
		Satyridae (Satyrids)
		Coenonympha californica (California Ringlet)
THER:		
	N-14 A1	
		1



# APPENDIX B Wildlife Species Observed during the 2016 Pure Water Program Quino Survey

#### **INVERTEBRATE**

#### **BUTTERFLIES**

#### LYCAENIDAE—BLUES, HAIRSTREAKS, AND COPPERS

Callophrys augustinus—brown elfin

Euphilotes battoides bernardino—Bernardino square-spotted blue

Glaucopsyche lygdamus australis—southern blue

Hemiargus ceraunus—Ceraunus blue

Hemiargus ceraunus gyas—Edward's blue

Leptotes marina—marine blue

Plebejus acmon—Acmon blue

Plebejus lupini—lupine blue

Strymon melinus—gray hairstreak

Brephidium exile—western pygmy-blue

#### NYMPHALIDAE—BRUSH-FOOTED BUTTERFLIES

Adelpha bredowii—California sister

Chlosyne californica—California patch

Coenonympha tullia california—common california ringlet

Danaus gilippus—queen

Junonia coenia—common buckeye

Limenitis lorquini—Lorquin's admiral

Nymphalis antiopa—mourning cloak

Vanessa annabella—west coast lady

Vanessa atalanta—red admiral

Vanessa cardui—painted lady

Vanessa virginiensis—American lady

Danaus plexippus—monarch

#### RIODINIDAE—METALMARKS

*Apodemia mormo virgulti*—Behr's metalmark

Apodemia mormo—Mormon Metalmark

#### HESPERIIDAE—SKIPPERS

Erynnis funeralis—funereal duskywing

Heliopetes ericetorum—northern white-skipper

*Hylephila phyleus*—fiery skipper



## **APPENDIX B (Continued)**

Lerodea eufala—Eufala skipper
Pyrgus albescens—white checkered-skipper

#### PAPILIONIDAE—SWALLOWTAILS

Papilio eurymedon—pale swallowtail
Papilio rutulus—western tiger swallowtail
Papilio zelicaon—anise swallowtail

#### PIERIDAE—WHITES AND SULFURS

Anthocharis cethura—desert orangetip
Anthocharis sara sara—Pacific sara orangetip
Colias eurytheme—orange sulphur
Colias harfordii—Harford's sulphur
Eurema nicippe—sleepy orange
Nathalis iole—dainty sulphur
Phoebis sennae—cloudless sulphur
Pieris rapae—cabbage white
Pontia protodice—checkered white

