



APPENDIX F – QCB GENERAL FORMS



Quino Checkerspot General Form

Adult Survey

Location CNF Survey Segment Maps 001-003
 Surveyor Yagers / McGaughr / Green Date 8 Apr 10 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 0940 | 0 | clear patchy overcast drizzle shower | 1-6 | 72 |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1330 | 0 | clear patchy overcast drizzle shower | 0-3 | 69 |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chaicedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 3 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 2 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | 1 | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 1 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 6 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>Vanessa sp.</i> | 2 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | blue | 2 | |
| Lycaenidae (Hairstreaks) | | | <i>Erynnis</i> | 2 | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | Orangetip | 2 | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | white | 3 | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 9 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 2 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 2 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor Green/Meyers/McBrugh Segment # Maps, 1, 2, 3 Date: 8 Apr 10

Comments:

Extensive patches of *Plantago* between 118031 and 118032.
Also, *Plantago* along dirt road near 118051.

GPSed RCSP and Orange-throated Whiptail

Plant Communities and Habitat Information:

Annual grassland, oak woodlands, "Deerweed Scrub"

Host Plants Present: *Plantago erecta*

Nectar Plants Present: *Mimulus*, *Camissonia*, *Erodium*, *Phacelia*, *Lasthenia*

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Pgs MS-004 to MS-005

Survey Segment Pole 118073 west to 118051

Surveyor John Green

Date 4-15-10

Survey Week Number 1

Survey Partner(s) _____

Total Acres: _____

Portion Surveyed: _____

Elevation: Max _____

Min _____

urvey complete
get walk
back

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|----------|-------|--------|----------|---------|--------|------------------|----------|
| Start 1045 | high/low | clear | patchy | overcast | drizzle | shower | 2.2 avg, 8.4 max | 71° |
| 1400 | " | clear | patchy | overcast | drizzle | shower | 1.5 6.7 | 67.1 |
| 1535 | HAZY | clear | patchy | overcast | drizzle | shower | 0.7 2.0 | 70.8 |
| stop 1630 | diffuse | clear | patchy | overcast | drizzle | shower | 3.3 7.2 | 63.4 |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| stop | | clear | patchy | overcast | drizzle | shower | | |

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

| Butterfly Species | Count (Total) | Hill-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | 1 | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquini's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 1 | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 3 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 3 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis properitius</i> (Propertius Duskywing) | | | White sp. | 3 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | Duskywing - sp. | 15 | |
| Lycaenidae (Hairstreaks) | | | Orangetip - sp. | 7 | |
| <i>Atides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | 2 | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 2 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 10 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 2 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor J. Green

Segment # Maps 4+5

Date: 4-15-10

Comments: Birds in field notes. RCSP & SSHA mapped

Plant Communities and Habitat Information:

~Grassland, Oak woodland, CSS, chaparral (burned)

Host Plants Present: Owl's Clover, Plantago Mapped

Nectar Plants Present: many, including Lupines, Phacelias, Goldfields, Cryptanthus, Plagiobothrys, Lotus, & many more in field notes

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location MAPS 5-7 Survey Segment _____
 Surveyor C. MCGAUGH Date 4-15-10 Survey Week Number 1
 Survey Partner(s) (J.P. GREEN)
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|-----------|-------|--------|----------|---------|--------|----------------------------|----------|
| Start 1100 | HIGH THIN | clear | patchy | overcast | drizzle | shower | | 70°F |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | WINDS GUSTS to 10 mph + | |
| | | clear | patchy | overcast | drizzle | shower | avg ~ 2 mph | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop 1600 | 100% | clear | patchy | overcast | drizzle | shower | | 68°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-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | 1 | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 1 | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 1 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 1 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 4 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Steepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 3 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | | | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | blue sp ("Southern Blue") | 3 | |
| Lycaenidae (Hairstreaks) | | | white sp | 1 | |
| <i>Atilides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 1 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 1 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor MCGAUGH Segment # MAPS 5-7 Date: 4-15-10

Comments: surveyed Acres W → E
084, 085, good habitat, to 086 very good habitat, CSS
exclude 087; 101-106?, 095
unusual habitat 088, 099
↓
Plantago
oak clover
clay soils
cryptogamic soils,
erosion, old roads in CSS

Plant Communities and Habitat Information:

coastal sage scrub
channel
grassland

Host Plants Present:

abundant Plantago -085 → -086, scattered Oak Clover

Nectar Plants Present:

Abundant; Lathyrus, Castilleja,

Quino Sighting Ø **Date:** **GPS Location:**

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location MAP 12, 9, 10, small portion of 8 Survey Segment _____
 Surveyor J.F. GREEN, C. McLEOD Date 4-14-10 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|----------------------|-----------|-------|--------|----------|---------|--------|-----------------|----------|
| Start 1105 (MAP 12) | high thin | clear | patchy | overcast | drizzle | shower | 1.2 Avg 2.6 max | 62° |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| 12:30 (MAP 8, 9, 10) | " | clear | patchy | overcast | drizzle | shower | 2.5 Avg 4.1 max | 64.10 |
| 1700 (MAP 9 E) | " | clear | patchy | overcast | drizzle | shower | 1.5 Avg 6.2 max | 63.7° |
| Stop 1700 (MAP 9 E) | " | clear | patchy | overcast | drizzle | shower | | 59.8° |

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

Surveyor GREEN/MCGAUGH

Segment # Maps 8, 9, 10, +12

Date: 4-14-10

Comments: SURVEYED SUBSTATION, LINE TO HWY 79 (MAP 12)
SURVEYED FIRE RD EAST WEST OF L. FRANCHAW (MAPS 8, 9, 10) MCGAUGH RD SOUTH
GREEN NORTH
ISOLATED POLE 118181; SURVEY AREA MAY BE EXTENDED TO 118187 - PRESENCE
OF HABITAT - FOODPLANT, NECTAR, OUTCROPS

Plant Communities and Habitat Information:

CUMPRAL, OAK WOODLAND, GRASSLAND / COW HABITAT

Host Plants Present: CACTILICIA EXSERTA (COWS CLOVER)

Nectar Plants Present: MANY, ABUNDANT - ECUPIELAS (LASTHEDIA) LUPINES,

Quino Sighting NOT YET!

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location MS 28, 29 Survey Segment _____
 Surveyor ~~David King, Nicole Sherry~~ Date 4/14/10 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

372115
 mid
 3:00-10:05

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|---------------------------------|----------|--------------------------------------|---------------------|-------------|
| Start 1109 ^(arrival) | 5 | clear patchy overcast drizzle shower | 1-4 | 56 / 53 air |
| 1134 | 20% thin | clear patchy overcast drizzle shower | 0-4 | 65 / 61 air |
| 1240 ^{at creek} | 20% | clear patchy overcast drizzle shower | 0 mph | 76 / 74 air |
| 1340 ^{pos area} | 30 thin | clear patchy overcast drizzle shower | 2-6 | 63 / 68 |
| 1409 ^{map 30 ft} | 25 thin | clear patchy overcast drizzle shower | 1-4 | 69 / 69 |
| 1600 ^{near 102} | 80 thin | clear patchy overcast drizzle shower | 4-12 ^{avg} | 68 / 57 |
| Stop | | clear patchy overcast drizzle shower | | |

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

Surveyor King / Kimball

Segment # MS 20 28 + 29 Date: 4/14/10

Comments: to west BGGN2 mid left access rd
 AM Turkey
 Mach
 Caqm ① SDHL @ (year 1) 372130
 BRTI
 PSFL = Surveyed from "1000 2085" area due to boulder creek seen Meekal?
 SP 80th surveyor w/ net on other side - started too cold, but
 PF mole all was eventually covered under proper conditions
 Al sp. 99mm = (checked) out long dom area - lots of keep out signs &
 Des cotton tail compound fence, skipped for specific permission - small distance
 Howr ribbon line passes through corner
 mountain lion 1450 Nicole Walker like staff, (separate sheet) I'm checked access roads that
 south from file 372115
 SB Lizard - checked to north, compound to slings & active to cross beyond
 writit pile 372114.
 Cora

Plant Communities and Habitat Information:

near start of file" Chrome chaparral 70% cover w/ ceanothus & scrub oaks

Host Plants Present:

Castilleja exserta - only sat. indiv

Neoter Plants Present:

| | | | | | |
|------------------|------------------|---------------------|-------------------|--------------------|-------------------|
| Ceanothus toment | Eriogonum cal | Lotus (sm. yellow) | C. leucodermis | Lotus forsterianus | Lotus sp |
| Cryptantha spp. | Phacelium spp. | Clamadis | Peonay cal | Ba c. sal | Lupinus sp |
| Eriogonum cic | Hypochaeris sp. | Baby blue eyes | Claytonia Purp | Amisatum | Comatium |
| March micro | Castilla exserta | Camissonia. no dots | Lathyrus vestitus | | Syrinchium bellum |

Quino Sighting

Date:

GPS Location:

Lepidum sp.
 Lupinus sp.
 Lupinus (red w/ blue)
 Rhys Ovation

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Map 29 Survey Segment _____
 Surveyor NK Date 14-Apr-10 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|------------|-------|--------|----------|---------|--------|--------------|-------------|
| Start 1409 | 25 | clear | patchy | overcast | drizzle | shower | 1-4 | 69 (Air 69) |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop 200 | 80 (4 hrs) | clear | patchy | overcast | drizzle | shower | 4-12 | 56 (Air 56) |

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

Surveyor NK

Segment # Map 29

Date: 14-Apr-10

Comments: Dich. caps base in leaf and 4 Caps: just base of flower - not many notes. SOURCE & QUANTITY, etc.
Tick Control!

Plant Communities and Habitat Information: Cham. Chap. Oak Woodland

Host Plants Present:

Nectar Plants Present: C., C., V., E., Clematis,
Das.

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Mar 30 Survey Segment 7
 Surveyor BK Date 16-Apr-17 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|--------------|----------|
| Start 1037 | 0 | clear | patchy | overcast | drizzle | shower | 0-3 | 60 |
| | | clear | patchy | overcast | drizzle | shower | 2-5 | 66 |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop 35 | | clear | patchy | overcast | drizzle | shower | 4-5 | 61 |

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

Surveyor NK

Segment # Map 30

Date: 16-Apr-10

Comments:

[Handwritten notes in comments section]

Plant Communities and Habitat Information:

[Handwritten notes in plant communities section]

Host Plants Present:

[Handwritten notes in host plants section]

Nectar Plants Present:

[Handwritten notes in nectar plants section]

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Pages 30 & 34 Survey Segment _____
 Surveyor John Green Date 16 Apr 2010 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|--------------|----------|
| Start 1040 | trace | clear | patchy | overcast | drizzle | shower | 0-2 | 60° |
| 1535 | low | clear | patchy | overcast | drizzle | shower | 4-5 | 75° |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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) | Hill-topping |
|--|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Anodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 2 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 2 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | Duskywing IIII | 5 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | Blue sp II | 2 | |
| Lycaenidae (Hairstreaks) | | | Sulphur | 1 | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) IIII II | 16 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) III | 7 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) IIII III | 13 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor John Green

Segment # Maps 30+34

Date: 16 Apr 2010

Comments: NOFL SPTO BCSP WREN ACB WVA MDM BIKR ATTE LFGO TOWA HAWK
EURE MCOU NOE BUCO WBU BSCN JAIN WEEI CORA TUVU DEBL NAVA VISTA SSIA LAZB
MAYO BTHA RWIR PLTI CMT CAQU CANW SAGE GRRO BT_{sp} HVA MORA

W. L. Co. S. S. D. ...

Plant Communities and Habitat Information: Quino, oak woodland
(S. mixed)

Host Plants Present: Quil Clover, one small patch, sapped on Pg. 34

Nectar Plants Present: Sage, Erod. X2, Miner's Lettuce, Lotus, Cornus, ^{spp} Ceanothus, ^{spp} Cypripedium, ^{spp} Phlox, ^{spp} Cornus, ^{spp} Lonicera, ^{spp} Manzanita, Yucca, Mtn. Mahoe, ^{spp} Malva, ^{spp} Evening Primrose, ^{spp} Wild Cucumber, ^{spp} Sagittaria, ^{spp} Pectocarya, ^{spp} Peony, ^{spp} Lupine, ^{spp} Phacelia, ^{spp} Piddler

Quino Sighting Date: _____ GPS Location: _____

| Photographs Taken: | | |
|--------------------|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

eckerspot General Form

Adult Survey

~~ADP 0320~~ Cuyamaca Peak

Survey Segment ⁰³⁰ ~~MARS~~ 031-032

by M. Busby, N. Kimball

Date 4/15/10

Survey Week Number 1

Survey Partner(s)

Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|-----------|---------|--------|----------|---------|--------|--------------|----------|
| Start 1030 | 5% haze | (clear) | patchy | overcast | drizzle | shower | 2-4 | 64 |
| 1300 | 85% haze | clear | patchy | overcast | drizzle | shower | 2-5 (8) | 76 |
| 1530 | 100% haze | clear | patchy | overcast | drizzle | shower | 3-5 | 73 |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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

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

Surveyor M Busby N Kimball Segment # Map⁰³⁰ 031-032 Date: 4/15/10

Comments:

| | | |
|-----------------|---------|--|
| TOWA | CATO | Seems early for surveys because very few annuals blooming and very few butterflies observed despite suitable weather conditions. |
| BCSP | Muldeer | |
| whip | ANHU | |
| WREN | CATH | |
| bobcat | | |
| mtn lion | | |
| wyote | | |
| Phrynosoma | | |

Plant Communities and Habitat Information:
 Burned chaparral w/ very few flowering plants. Stopped surveys at alpine habitat

Host Plants Present:
 None observed

Neectar Plants Present:

| | | |
|----------------|---------|----------------|
| Chrysantha sp. | Eri con | Lomatium |
| Erodium sic | Ceo sp. | Arctostaphylos |
| Yucca whip | Sal sp | woolly blue... |
| Hypo. | Ceo tom | |

Quino Sighting N/A Date: _____ GPS Location: _____

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

flowering

Salvia prostrata

Quino Checkerspot General Form

Adult Survey

Location Map 33 Survey Segment _____
 Surveyor NR + DS Date 10-Apr-15 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|----------|----------|---------|--------|--------------|-------------|
| Start 1045 | 10 | clear | (patchy) | overcast | drizzle | shower | 2-5 w/gust 9 | 65 (hi. 61) |
| | | 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 1200 | 15 | clear | (patchy) | overcast | drizzle | shower | Same | Same |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 11 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nictippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>Hedgerow Hairstreak</i> | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | | | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | 1 | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 1 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopteryx lydamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor NK+DK

Segment # Map 33

Date: 10-Apr-19

Comments: Map 33 is along Lookout Rd, which is currently being restored to a
continuous forest & lined w/ closed canopy chap

Plant Communities and Habitat Information: continuous forest (restoration are where native
grasses w/ resprouting + planted ceano.)

Host Plants Present:

Flowering Nectar Plants Present: Baby Blue Eyes, lotus

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location MS 035 Survey Segment Pales 371527-371517
 Surveyor Daniel King Date 4/19/10 Survey Week Number 1
 Survey Partner(s) nickle P.D. King in am
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|-------------|
| Start 1150 | 6 | clear patchy overcast drizzle shower | 1-5 | 78.6 / 72.0 |
| 1320 | 0 | clear patchy overcast drizzle shower | 2-7 | 72.6 / 74.0 |
| 1412 | 0 | clear patchy overcast drizzle shower | 4-8 | 71.9 / 73.0 |
| 1530 | 0 | clear patchy overcast drizzle shower | 0-8 | 70.9 / 74.0 |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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

Quino Checkerspot General Form

Adult Survey

Location 714150 Survey Segment _____
 Surveyor NK Date 12-1-0 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|-------------------|-----------|-------|---------------|----------|---------|--------|--------------|-----------|
| Start <u>1222</u> | <u>1</u> | clear | <u>patchy</u> | overcast | drizzle | shower | <u>2-5</u> | <u>79</u> |
| | | 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 <u>1548</u> | <u>10</u> | clear | <u>patchy</u> | overcast | drizzle | shower | <u>0-6</u> | <u>76</u> |

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

Surveyor NK

Segment # 7/10/05

Date: 19-Apr-0

Comments: Cont on Nest of [unclear] from [unclear] 12-way [unclear] 35-39 [unclear] [unclear]
and [unclear] + [unclear] 39-42 [unclear] [unclear] [unclear] [unclear]

Plant Communities and Habitat Information:

[unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear]

Host Plants Present:

Neectar Plants Present:

Et. cc. [unclear], [unclear], Rh. ovata, [unclear] (yellow), [unclear], [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear] [unclear]

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

1

Quino Checkerspot General Form

Adult Survey

Location NEAR VIEJAS / CNF Survey Segment 037-038
 Surveyor M. BUSBY Date 4/20/10 Survey Week Number 1
 Survey Partner(s) N. KIMBALL
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|-----------------|---------------|-------|-------------------|-------------------------------------|---------|--------|--------------|----------|
| Start 1000 | 80 haze | clear | patchy | overcast <u>overcast</u> | drizzle | shower | 2-4 | 64 |
| 1300 | 100 haze | clear | <u>patchy</u> | overcast | drizzle | shower | 2-5 (11) | 86 |
| 1420 | 65 | clear | <u>patchy</u> | overcast | drizzle | shower | 5-8 (9) | 80 |
| 1420 | 50 | clear | patchy | overcast | drizzle | shower | 2-5 | 75 |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop 1600 | 50 | clear | <u>patchy</u> | overcast | drizzle | shower | | |

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) | Hill-topping |
|--|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) IIII IIII 13 | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) II | 2 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) IIII IIII IIII 14 1 | | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) III 3 | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) II | 2 | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) IIII IIII 9 | 9 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | OT sp 1 | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | Indra Swallowtail 1 | 1 | |
| Lycaenidae (Hairstreaks) | | | Orange Skipperling II | 2 | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Effin) III 3 | 3 | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) IIII IIII 9 | 9 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucoopsyche lygdamus</i> (Southern Blue) III 3 | 3 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) IIII 4 | 4 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor Busby/Kimball

Segment # Maps 37+38 Date: 20-Apr-10

| | | |
|-----------|---------------|--|
| Comments: | | Call // Amber Gelwicks // before // 619.672.1993 // survey |
| TUVU | Uta stan | surveyed alignment but sporadic near west end in map 038 because many residential dwellings. Met Amber (@ east end of 038) and she recommended we be careful w/ locals b/c "will shoot before asking what you are doing!" so we were not comfortable surveying in or immediately adj to people's yards |
| NO MO | west fen liz | |
| CATD | whip | |
| SPTD | coyote | |
| AMCR | rabbit | |
| SOSP | dog | |
| NOHA | gran spin liz | |
| COHU | mtn lion | |
| CAQU | bobcat | |
| CAKI | | |
| LEGO | | |
| RTHA | | |
| USJA | | |

Plant Communities and Habitat Information:

several patches of oaks down (as mapped by hand). Plantago area sparse but most suitable area in this section. Plantago all very fresh and good butterfly activity.

Plantago erecta w/ snr db map 038, mapped by hand scattered, ~~1000~~ ~~pass~~ 1000s very fresh, not drying

Host Plants Present:

Cas exe

- map 038 - small patches w/ 10-15 plants ea.
- recorded on map by hand
- map 038 very eastern end? dozens large patch cas exe @ hilltop mapped by hand

- gut sar
- sol far
- ira bic
- Odora
- Horhound
- Lot sp.
- cam cod
- buzzy leaf, tall flower
- meli yellow
- tall strawberry?
- leo sp.
- leo leuc

Nectar Plants Present:

- | | | | | | |
|----------|----------|-------------|---------------|----------------|------------------|
| Hypo | Erod cic | Lup bic | Allum | Helianthus | Dic cap |
| Erod sic | Lali mac | chryp | thistle sp. | Eri con | Pecto |
| Eri fac | YUC whip | woolly blue | African daisy | Rhus ova | Cast (Indian) |
| mustard | chap pea | sal. coc | Sis bel | Singing lupine | Heli (rock rose) |

Quino Sighting

N/A

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

N/A

Quino Checkerspot General Form

Adult Survey

Location MS 90-41 Survey Segment _____
 Surveyor David King / Steve Myers Date 9/20/2010 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: 272963 ~~273030~~ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|-----------|--|--------------------|---------------------------------------|
| Start 1006 | 10 | (clear) patchy overcast drizzle shower | 2-4 | 62 _g / 61 _g air |
| 1150 | Haze | (clear) patchy overcast drizzle shower | 2-6 | 67 _g / 72 _g air |
| 1240 | high thin | (clear) patchy overcast drizzle shower | 3-6 | 65 _g / 72 _g air |
| 1420 | 35 | clear patchy overcast drizzle shower | 2-6 ^{air} | 68 71 / 70 |
| 1550 | 50% | clear patchy overcast drizzle shower | 6-8 mph | 68 / 61 air |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | 1/1/1/1 | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apademia mormo</i> (Mormon Metalmark) | 20 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | 1/1 | |
| <i>Vanessa annabella</i> (West Coast Lady) | 1 | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 1 | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 11 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funealis</i> (Funereal Duskywing) | 1/1/1/1 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: <i>Danaus</i> | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | 1/1 | | <i>Erynnis</i> sp. | 3 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | | | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 1 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 1/1 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 40 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor King

Segment # ms 40 + 41

Date: 4/20/10

Comments:

BCSP Access from freeway shoulder 9m dirt rd. Grate w/ soil 50% Rock, in heavy
rains walking to mt road (clear) to road glare. Mostly sunny with light rain

Aaha
Male deer Rhcr (2.5m indiv) near 273205) other Rhams cross on map
Hoff " (4 sm indiv near 223009)

COFA
mountain lion
NOFI
PSEI
gpts cal gr squirrel

DCWA Br b

TUVU GCSP

Dum Dog

Grey Fox

G. Spring (Horn)

Bati

AGCN
sheep and pony
A/O m/d

BHOR

Plant Communities and Habitat Information:

N. of I-8 - mostly 5m chaparral down drainage, some changes upriver - both low
(1-2m) & somewhat open / often 60% cover
South, along roadside some CSS down drainage fields, - light fire here for
and set oaks

Host Plants Present:

Blossoms
Nectar Plants Present:

| | | | | |
|-----------------------|---------------------------|----------------------|---------------------|-------------------|
| crypt butterfly sp | Camissonia sp (5m yellow) | yaecct whiff | Didymopanax | Alvium Dinky |
| Ceanothus leucodermis | Platichthys s. sp. | umbellifer | Scyt. to rps | Deerote rock Rose |
| Erodium CUC | Lolium (sca allium) | manh nae | Syringobolus bellum | Majoria hiffon |
| Ceanothus (alt.) | pineapple weed | Solanum parashii | Chia | Pectocarya sp. |
| Claytonia | Limonium sp | Solanum xanti | Leptanthus bicolor | |
| | | Barroetia | | |

Quino Sighting Date: GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

CNF

Quino Checkerspot General Form

Adult Survey

Location Map 51 - Barrett Lake Survey Segment _____
 Surveyor NMK Date 06-02-10 Survey Week Number 1
 Survey Partner(s) CM & SM
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|-------------------|----------|---|------------------------------|----------------------------|
| Start <u>1048</u> | <u>0</u> | <u>clear</u> patchy overcast drizzle shower | <u>0-1 mph</u> | <u>Gr + Air = 62</u> |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | <u>w/ gusts up to 10 mph</u> | |
| | | clear patchy overcast drizzle shower | | |
| Stop <u>1433</u> | <u>0</u> | <u>clear</u> patchy overcast drizzle shower | <u>2-5 mph</u> | <u>Gr = 74 / Air = 73°</u> |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Cobb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Anodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | <u>11/1</u> | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis perreana</i> (Funereal Duskywing) | <u>11/1</u> | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>Old Sister</i> | <u>1</u> | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Underwing Moth</i> | <u>1</u> | |
| Lycaenidae (Hairstreaks) | | | <i>Sulphur sp.</i> | <u>1</u> | |
| <i>Atides halesus</i> (Great Purple Hairstreak) | | | <i>Blue sp.</i> | <u>11</u> | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | <u>11</u> | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | <u>1</u> | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor NMK

Segment # Map 51

Date: 06 Apr -10

Comments: Cont. esp - plants spread out w/in patch, flowering & pop. may increase as season progresses
P.O. (pole Z571452) - flowering, green stems & pop. to high tall, cont. along road side & rd bend N of pole
along E-facing slope w/ 1000s of plants

Plant Communities and Habitat Information: Oak woodland, Grassland, CSS, Chap

Host Plants Present: Cont. esp, Per.

Flowering

~~P.O.~~ Nectar Plants Present: Emp. cica, Euplypt, Gubia, Camisaria, Phac. pa., Dich. cap., sal. cal., Lotus, Lipino,
Rhus oil., Crap. cal., Spinach, ^{Rhus to} Fried. crass., Mar. mac., hives, Kediella, Clay. pap., Wally blue ants

Quino Sighting

Date:

GPS Location:

Photographs Taken:

- | | | |
|-------------------------------|--|-----|
| 1. <u>pole Z571452 - Per.</u> | 2. <u>close up of Per. (same locale)</u> | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Map 52 (W-end only) 44-41 Survey Segment _____
 Surveyor NK Date 07 Apr 10 Survey Week Number 1
 Survey Partner(s) DK
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | clear | patchy | overcast | drizzle | shower | Wind (range) | Temp (F) |
|--------------|---------|---------|--------|----------|---------|--------|--------------|-------------|
| Start 1205 | 0 | (clear) | patchy | overcast | drizzle | shower | 1-2 | 72 (air 78) |
| 1437 | 0 | (clear) | patchy | overcast | drizzle | shower | 3-7 | 78 |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop 1625 | | (clear) | patchy | overcast | drizzle | shower | 3-5 | 76 (air 72) |

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

Surveyor UK, DK

Segment # Map 52, 44

Date: 08-Apr-10

Comments: lg patches of Lar. rub. @ W-end of Map 52; granitic soils w/ lg spurs of Cast. ex. & nectar sources - ended @ 273729 - 273721

Plant Communities and Habitat Information: Chap, Riparian, Coast-Live Oak Riparian

Host Plants Present: Cast. ex, Cast. ex

Flowering Nectar Plants Present: Lar. cal., Anemone, Gilia, Lupine, Plagio, Imp. bicolor, Phacelia, Er. vic, Tid., tips, Penstemon, Chamisa, Kerkella, Phac. par, Crypt., Peony, lot. scop, Whispering Bell, Mirabilis, Rhus ovata, Lupinus form, Mar. macra, Esch. cal., Indian Paintbrush, Sal. volum, Dich. cap., Caly. macro, Ephedra, Red Wattle, Erica scop., Gust. saro.

Quino Sighting Date: GPS Location:

| Photographs Taken: | | |
|--------------------|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location MAP 50 CNP Survey Segment _____
 Surveyor MCGAUGH Date 4-6-10 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max 2276' Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|-------------------|----------|---|--------------|--------------|
| Start <u>1115</u> | <u>0</u> | <u>clear</u> patchy overcast drizzle shower | <u>0-8</u> | <u>60-71</u> |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop <u>1435</u> | <u>0</u> | <u>clear</u> patchy overcast drizzle shower | | |

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

Surveyor MCGAUGH

Segment # MAP 50-51

Date: 4-6-10

Comments: South 571432 to 571444 (potholes) bisected by beam valley road

Plant Communities and Habitat Information:

Chaparral - chamise, manzanita, ceonothus buckwheat, leucostella
coastal sage scrub - artemisia, celifernia
oak woodland

Host Plants Present:

CASILLICA, ~~LEUCOSTELLA~~

Nectar Plants Present:

MUSTARDS, LUPINE, LOTUS, CLEVELAND SAGE, ERADIVUM, DICHELIDANNA, RIBIS CUNDA
~~MALESIA~~, ERADIVUM

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Map 50 Survey Segment _____
 Surveyor Steve Myers Date 6 Apr 10 Survey Week Number 1
 Survey Partner(s) CM, NK
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 1115 | 0 | clear patchy overcast drizzle shower | 0-8 | 60° |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1435 | 0 | clear patchy overcast drizzle shower | 0-5 | |

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

Surveyor Steve Myers

Segment # Map 50

Date: 06-Apr-10

Comments: Habitat from 571432 south to 571437 primarily Chamise with small open areas frequent along road. *Castilleja exserta* patches sparsely scattered along that section. *Rhamnus crocea* very infrequent.

From 571440 to 1/2 way between 571441 + 571442 mixed chaparral. Much open ground near 571440, with *Castilleja exserta* + *Cordylanthus* frequent.

Plant Communities and Habitat Information:

Chamise and mixed chaparral

Host Plants Present: *Castilleja exserta*, *Cordylanthus rigidus*

Nectar Plants Present: *Dicholostemma capitatum*, *Cryptantha*, *Eriodictyon cerasifolium*,
Lastrenea, *Rhus ovata*

Quino Sighting

Date:

GPS Location:

Photographs Taken:

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

Quino Checkerspot General Form

Adult Survey

Location Mans 53+ 52 Survey Segment _____
 Surveyor NK Date 27 Apr 10 Survey Week Number 1
 Survey Partner(s) L. Gorman
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|-----------|
| Start 1117 | 7 | clear patchy overcast drizzle shower | 1-2 | 67 (A-71) |
| 1315 | 50 | clear patchy overcast drizzle shower | 3-8 | 59 (A-63) |
| | 35 | clear patchy overcast drizzle shower | 5-8 | 58 (A-62) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1631 | 30 | clear patchy overcast drizzle shower | 1-4 | 70 (A-74) |

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

Quino Checkerspot General Form

Adult Survey

Location CNF Map 54, 55, 57, & 56 Survey Segment _____
 Surveyor S. Myers, C. McGee Date 7 Apr 10 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 1045 | 0 | clear patchy overcast drizzle shower | 2-8 | 65° |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1515 | 0 | clear patchy overcast drizzle shower | 2-4 | 78° |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes mariza</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | 2 | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 3 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | 2 | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 3 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | 2 | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 4 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis fureralis</i> (Funereal Duskywing) | 9 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>Erynnis white sp</i> | 5 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | | 2 | |
| Lycanidae (Hairstreaks) | | | | | |
| <i>Atides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 11 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 3 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor Myers/McGarrah

Segment # Map 54, 57, + 56

Date: 7 Apr 10

Comments:

Plant Communities and Habitat Information:

Recently burned mixed f chamise chaparral.
Rhamnus crocea sparse & widespread.

Host Plants Present: *Plantago erecta*, *Cortilleja cymosa*

Nectar Plants Present: *Dicholostemma capitatum*, *Lotus scoparium*, *Erodium*, *Eriophyllum*,
Layia

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Map 58+56 Survey Segment _____
 Surveyor Darrin King Date 4/7/2010 Survey Week Number 1
 Survey Partner(s) John Gresson, Nicole Kimball
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 1137 | 0 | clear patchy overcast drizzle shower | 2-8 mph | 76 |
| 1317 | 0 | clear patchy overcast drizzle shower | 2-8 | 72 |
| 1430 | 0 | clear patchy overcast drizzle shower | 4 mph | 81 |
| 1511 | 0 | clear patchy overcast drizzle shower | 2-9 mph | 78 mod |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

Habitat onsite (circle as applicable) hiltops, ridges, rock outcrops, open soils, soil crusts, clay soils, old roads, Plantago, Castillejo, Cordylanthus, Antirrhinum, nectar sources
 only a few signs of rock pools

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

Surveyor King/Kimberly Green Segment # Map 55+56 Date: 07-Apr-10

Comments:

BCSP Granite spring
 SISP meki
 Lasp speckled catfish
 CATH HAEFL
 ROWR ACWO
 CATO Domestic dog
 SPTO RTHA
 COFA
 TOWU WCSP
 Side-bld. (1, 22) CAQU
 n. fence (1, 7) Coyote
 AMKE
 ChSP
 LESO
 LOHO
 mink deer
 ANHO
 RCSP

Plant Communities and Habitat Information:

Burn southern mixed chaparral - 40% shrub cover *Ceanothus* spp., *Rh. integrifolia*
chemise, *rocata*, *C. reticulata* sp.
Gutierrezia sp., Rock rose

Host Plants Present:

Antennaria californiana

Nectar Plants Present:

| | | | |
|-----------------------------|----------------------------|-------------------------|-------------------|
| Flowers | <i>Solanum</i> sp. | <i>Eschscholm</i> cal. | Whisper bell |
| <i>Phacelia parviflora</i> | <i>Lotus scopulorum</i> | <i>Yucca</i> whip | Plus de jays |
| <i>Marah microcarpa</i> | Blackick | <i>Eriogonum</i> conest | Empyrean |
| <i>Erdiana</i> leaf | <i>Compositum</i> sp. | chop pen | Chia |
| <i>Ceanothus tomentosus</i> | <i>Purshia</i> sp. (white) | Rock Lotus | Spring balls |
| | | Green pink | California silver |

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | | |
|-----|-----|-----|-------------------------------|
| 1. | 2. | 3. | <i>Helianthus scopus</i> |
| 4. | 5. | 6. | <i>Compositum</i> sp. tuberos |
| 7. | 8. | 9. | <i>Amsinckia</i> |
| 10. | 11. | 12. | Red maids |
| | | | California sp. of |

Arctostaphylos
Mirabilis sp.
 Claytonia
Lomatium sp.
Phacelia cicutaria

Quino Checkerspot General Form

Adult Survey

Location Map 58+56 Survey Segment _____
 Surveyor David King Date 4/7/2010 Survey Week Number 1
 Survey Partner(s) John Green, Nicole Kimball
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 1137 | 0 | clear patchy overcast drizzle shower | 2-8 mph | 76 |
| 1317 | 0 | clear patchy overcast drizzle shower | 2-8 | 72 |
| 1430 | 0 | clear patchy overcast drizzle shower | 4 mph | 81 |
| 1511 | 0 | clear patchy overcast drizzle shower | 2-4 mph | 78 med |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

Habitat onsite (circle as applicable) hilltops, ridges, rock outcrops, open soils, soil crusts, clay soils, old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources.
only a few signs of usche plant

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

Surveyor King/Kimball, Green Segment # Map 55+56 Date: 7-Apr-10

Comments:

BCSP Granite spring
 SOSP meki
 Lasp speckled rattlesnake
 CATH H&L
 FOUR ACWO
 CATO Panstatic dog
 SPTO RTHA
 Cafa
 TOWU WCSP
 Side bld. 1.22) CAQU
 m. Pine (2.7m) Coyte
 Amke
 Chsp
 LESO
 COHO
 makeded
 Anho
 RCSP

Plant Communities and Habitat Information:

Burnt southern mixed chaparral - 40% shrub cover
 Ceanothus spp., Rh. integrifolia
 chamise, + rosette, caryophyllus sp.
 Guterisita sp., Rock rose

Host Plants Present:

Artemisia canthianum

Nectar Plants Present:

| | | | |
|-----------------------------|-----------------------------|---------------------------|------------------|
| Flowers | <i>Solanum</i> sp. | <i>Eschscholm</i> cal. | Whisper bell |
| <i>Phacelia parviflora</i> | <i>Lotus scopulorum</i> | <i>Yucca whipplei</i> | Pl's triflora |
| <i>nanah microcarpa</i> | Blackick | <i>Ericiphola</i> corvini | Smilax latifolia |
| <i>Erdium</i> leaf | <i>Compositum</i> sp. | cup leaf | Chia |
| <i>Ceanothus tomentosus</i> | <i>Penstemon spitchardi</i> | Rock lotus | Ground cover |
| | | Ground pink | Calisegon macra |

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | | |
|-----|-----|-----|-----------------------------|
| 1. | 2. | 3. | <i>Helianthus scoparius</i> |
| 4. | 5. | 6. | <i>Artemisia scopulorum</i> |
| 7. | 8. | 9. | <i>Artemisia</i> |
| 10. | 11. | 12. | <i>Artemisia</i> |

Arctostaphylos
Mirabilis sp.
 Claytonia
 Compositum sp.
Phacelia cicutaria

Quino Checkerspot General Form

Adult Survey

Location Map 70 + 69 Survey Segment _____
 Surveyor NK + DK Date 21 Apr 13 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--|--------------|-------------|
| Start 1014 | 0 | (clear) patchy overcast drizzle shower | 0-2 | 71 |
| 1145 | 0 | clear patchy overcast drizzle shower | 2-4 | 72 |
| 1323 | 0 | (clear) patchy overcast drizzle shower | 7-8 up to 11 | 80 |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1345 | 0 | (clear) patchy overcast drizzle shower | 2-5 | 79 (6:00am) |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | many | 1 |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 1 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | many | 1 |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 1 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | many | 1 | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>Upisalis maha</i> | many | 1 |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Litho sp.</i> | | 1 |
| Lycaenidae (Hairstreaks) | | | <i>O-tip</i> | | 111 |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | <i>Synchlora</i> | | 1 |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | <i>Acronis lupanul</i> | many | 1 |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | many | 111 | <i>Synchlora</i> | | 1 |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | <i>Blues</i> | | 1 |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 11 | | <i>Peck</i> | | 111 |
| <i>Icarcia acmon</i> (Acmon Blue) | | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Quino Checkerspot General Form

Adult Survey

Location MAPS 74-71 "GOLDEN ACORN" Survey Segment _____
 Surveyor MYERS / MCGAUGH Date 4-16-10 Survey Week Number 1
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: 44236 - 44180-81 Elevation: Max 4100 Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|----------------|---------|--------------------------------------|--------------|----------|
| Start 1050 | | clear patchy overcast drizzle shower | 0-3 | 60° |
| OS SITE (0845) | | clear patchy overcast drizzle shower | | 55° |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| 1215 | | clear patchy overcast drizzle shower | 2-7 | 64° |
| 1430 | | clear patchy overcast drizzle shower | 3-5 | 69° |
| Stop 1630 | | clear patchy overcast drizzle shower | 3-8 | 61° |

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

| Butterfly Species | Count (Total) | Hill-topping | Butterfly Species | Count (Total) | Hill-topping |
|--|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes mariza</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | 46 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | 3 | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 2 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | 4 | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 3 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopterus ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 1 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 4 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | 4 | | <i>PEARLY MARBLE</i> | 25 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>COMMON SOOTY WING</i> | 2 | |
| Lycaenidae (Hairstreaks) | | | <i>ERYNNIS SP</i> | 4 | |
| <i>Allides halesus</i> (Great Purple Hairstreak) | | | <i>white sp</i> | 5 | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | <i>blue sp</i> | 1 | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 9 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lydamus</i> (Southern Blue) | 1 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 6 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor MYERS/MIGAUGH

Segment # MARS 74-76

Date: 4-16-10

Comments:

GNP 0045 55°
start 10:55 60° gusts finish 1630

unreadable locks w/ end of Map 71

Plant Communities and Habitat Information:

Chaparral
Great Basin Sagebrush scrub

Host Plants Present:

Cadyanthus - few

Nectar Plants Present:

Lactuca lupine
Mastigophora Arabis
Cypripedium Eriogonum

Quino Sighting

Date:

GPS Location:

Photographs Taken:

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

12.

Quino Checkerspot General Form

Adult Survey

Location Maps 77 + 75 Survey Segment Buckman Spr
 Surveyor NK Date 26-Apr-17 Survey Week Number 1
 Survey Partner(s) NM
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|-------------|--|--------------|---------------|
| Start 1108 | 7 | clear → patchy overcast drizzle shower | 0-1 | 84 (air - 81) |
| 1244 | 5 | clear → patchy overcast drizzle shower | 1-4 | 81 (air - 80) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1703 | 15 (haze) | clear → patchy overcast drizzle shower | 0-6 | 78 (air - 78) |

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

Surveyor NK & NM

Segment # Map 77, 75

Date: 26-Apr-10

Comments:

Plant Communities and Habitat Information: Big sagebrush, Rip., Oak woodland + grassland
Chenop. chap.

Host Plants Present:

Flowers **Nectar Plants Present:** Les. cal., Senecio, Milkweed, Crypt., Salsol., Northern Blue Cholla, Pen. sec., Anisochloa,
Indian P-brush, Tolu. Top, Penstemon, Lup. bicolor, Plagiol., Yucca schottii, Peony, White Pine Cholla, Pink Lotus,
Ses. lucida, Ad. wisn., Rock-rose, Erigeron, M.C. Whip, Mammillaria, Cholla, Dich. cap., Balm, Blue Eyed,
P-applewood, Yucca macrocarpa, Senecio, Phacelia

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Pawna Valley Survey Segment Pages 1-4, Substation on 12
 Surveyor John Green Date 26 Apr 2019 Survey Week Number 2
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|--------------|-------|--------|----------|---------|--------|--------------|----------|
| Start 0930 | 5% high thin | clear | patchy | overcast | drizzle | shower | 0-1 | 70.3 |
| 1530 | <5% | clear | patchy | overcast | drizzle | shower | 1-3 | 73.8 |
| 1625 | <5% | clear | patchy | overcast | drizzle | shower | 1-9 | 78.2 |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | 4 | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 1 | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 3 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 4 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | 3 | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erymnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erymnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erymnis propertius</i> (Propertius Duskywing) | | | Duskywing sp. | 7 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | Orangetip sp. | 7 | |
| Lycaenidae (Hairstreaks) | | | Blue sp. | 9 | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | Sulphur sp. | 8 | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | Grass Skipper sp. | 1 | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 2 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 3 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 11 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor John Green Segment # Maps 1-4 + 12 ^{substation} Date: 26 Apr 2010

Comments: RCSP, OT Whiptail, Purple Martin
others in field notes

Plant Communities and Habitat Information: Deerweed scrub, Oak Woodland, burned
Chaparral

Host Plants Present: Plantago erecta, owl's clover

Nectar Plants Present: Many, including goldfields, lupines, Cypripediums,
Phacelias, etc.

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location MADS HWY 76 Survey Segment MADS MS-002-004
 Surveyor M. WILCOX Date 5 MAY 10 Survey Week Number 2
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 1030 | 0 | clear patchy overcast drizzle shower | 0-2mph | 60°F |
| 1215 | 0 | clear patchy overcast drizzle shower | 1-3mph | 75°F |
| 1500 | 5 | clear patchy overcast drizzle shower | 2-5mph | 84°F |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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

MW

Maps 2-4

05 May 10

NECTAR: CAUY. MACRO, ENCECIA FARN, CALO SPLEND,
 LUPINUS SP., MUSTARDS, SM. YELLOW/OR PEA, MELILOTHUS
 INDICA, SM. YELLOW COMPOSITES, WOOLY BLUE CURLS,
 BLUE DICKS, ERODIUM CIC, BUSH MALLOW, LOT. SCRP.
 FIG WORT, CAYTONIA, CA POPPY, ROCK PEA, CRYP. SP.,
 MARIJ. VULG., STICKY MONKEY FLOWER, YUCCA WHIP,
 LUPINUS BICOLORE, LUPINUS (Hairy/stinging)
 CLIMBING SCROPH or PEA (LAVENDAR), PLATCECA DISTANS,
 LARVAE HOST PLANTS = PLANTAGO ERECTA, ASTILLEJA EXERTA

BIRDS =

| | | | | |
|------|------|------|------|------|
| ΔCWO | WEST | WITU | ΔMRO | HOWR |
| NOFL | WEBL | BHCO | LABU | ATFL |
| HOPI | AMCR | PVMA | BCSP | MODO |
| EUST | ANHU | NUWO | HOOR | TUVU |
| RTHA | SPTO | CAQU | LASP | CATH |

HERPS = SCELOD. OCC.
 UTA STANS

MAMMALS: SPERM. BEECH, SYLVILAGUS, DEER (TRACKS), COYOTE (TRACKS/SCAT)

Quino Checkerspot General Form

Adult Survey

Location MADPS HWY 76 Survey Segment MADPS MS-002-004
 Surveyor M. WILCOX Date 5 MAY 10 Survey Week Number 2
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | clear | patchy | overcast | drizzle | shower | Wind (range) | Temp (F) |
|--------------|---------|---------|--------|----------|---------|--------|--------------|----------|
| Start 1030 | 0 | (clear) | patchy | overcast | drizzle | shower | 0-2mph | 60°F |
| 1215 | 0 | (clear) | patchy | overcast | drizzle | shower | 1-3mph | 75°F |
| 1500 | 5 | (clear) | patchy | overcast | drizzle | shower | 2-5mph | 84°F |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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

CALY. MACRO, EUCECIA FARN, CALO SPLEND,
 NECTAR: LUPINUS SP., MUSTARDS, SM. YELLOW/OR PEA, MELLILOTUS
 INDICA, SM. YELLOW COMPOSITES, WOOLY BLUE CURUS,
 BLUE DICKS, ERADIVM CIC BUSH MALLOW, LOT. SCIP.
 FIG WORT, CLAYTONIA, CA POPPY, ROCK PEA, ERYD. SP.,
 MARIUS VULG., STICKY MONKEY FLOWER, YUCCA WHIP,
 LUPINUS BICOOR, LUPINUS (Hairy/stinging)
 CLIMBING SCRAPH OR PEA (LAVENDAR), PHACEA PISTANS,
 LARVAE HOST PLANTS = PLANTAGO ERECTA, ASTILLEJA EXERATA

BIRDS = ACWO WEST WITU IMRO HOWR
 NOFL WEBL BHCO LABU ATFL
 NOFI AMCR PVMA BCSP MODO
 EUST ANHU NUWO HOOR TUVU
 RTHA SPTO CAQU LASP CATH

HERPS = SCALOP. GCE.
 UTA STANS

MAMMALS: SPERM. BEECH, SYLVILAGUS, DEER (TRACKS), COYOTE (TRACKS SCAT)

Quino Checkerspot General Form

Adult Survey

Location Hwy 76, MARS 4-8 TL682 Survey Segment _____
 Surveyor MICHAUGH Date 4-26-10 Survey Week Number 2
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|--------------|
| Start 0950 | | clear patchy overcast drizzle shower | 0-3, to 6 | 72°F |
| | | clear patchy overcast drizzle shower | mostly ↑ | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | high of 84°F |
| | | clear patchy overcast drizzle shower | | |
| Stop 1600 | | clear patchy overcast drizzle shower | | 74°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-topping | Butterfly Species | Count (Total) | Hill-topping |
|--|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 1 | YES | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 3 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopterus ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 2 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 2 | YES | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>Vanessa</i> sp | 2 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Erynnis</i> sp | 2 | |
| Lycaenidae (Hairstreaks) | | | blue sp | 6 | |
| <i>Atides halesus</i> (Great Purple Hairstreak) | | | orange tip sp | 2 | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | white sp (large) | 3 | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 1 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 3 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 5 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor MCGAUSHT Segment # HWY 76 Maps 4-8 Date: 4-26-10

Comments: EDGE
SURVEYED EAST OF PAGE 4

Plant Communities and Habitat Information:
CHAPARRAL, CSS, GRASSLAND, OAK WOODLANDS

Host Plants Present: PLANTAGO, CASTILLEJA

Nectar Plants Present: MANY

Quino Sighting Date: GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location CNF Survey Segment Maps 9-10
 Surveyor Steve Myers Date 4 May 10 Survey Week Number 2
 Survey Partner(s) Chet Mc Gough
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|--------------|----------|
| Start 1000 | 0 | clear | patchy | overcast | drizzle | shower | 2-4 | 67° |
| 1155 | 0 | clear | patchy | overcast | drizzle | shower | 5-8 | 74° |
| 1320 | 0 | clear | patchy | overcast | drizzle | shower | 3-6 | 73° |
| 1445 | 0 | clear | patchy | overcast | drizzle | shower | 3-8 | 73° |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | 1 | | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | 5 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | 1 | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 6 | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 2 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 13 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | 3 | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mourful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | 2 | | <i>Vanessa</i> sp. | 3 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Erynnis</i> sp. | 3 | |
| Lycaenidae (Hairstreaks) | | | blue sp. | 4 | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | white sp. | 8 | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | Becker's white | 1 | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 8 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor Myers / McGaugh Segment # Maps 9-10 Date: 4 May 10

Comments:

Willow Flycatcher Fitz-bewing (mapped)
Coast Horned Lizard
Yellow Warbler
Yellow-breasted Chat

Plant Communities and Habitat Information:

Chaparral, oak woodland, meadows

Host Plants Present:

Castilleja exserta, Plantago erecta
Castilleja abundant (probably millions of plants)

Nectar Plants Present:

Lasthenia, Dichelostema, Cryptantha, Red Wards, Chia
Nectar plants abundant

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot Geueal Form

Adult Survey

Location MADS DE-34 Survey Segment _____
 Surveyor MCGAUGH, MYERS Date 5-3-10 Survey Week Number 2
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 1100 | 0 | clear patchy overcast drizzle shower | 1-3 | 70° |
| 1220 | 0 | clear patchy overcast drizzle shower | 1-4 | 73° |
| 1310 | 0 | clear patchy overcast drizzle shower | 2-5 | 73° |
| 1415 | 0 | clear patchy overcast drizzle shower | 3-6 | 75° |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1600 | 0 | clear patchy overcast drizzle shower | 2-8 | 74° |

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) | Hill topping |
|--|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcadon</i> (Chalcadon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbi</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 1 | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 3 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 15 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | 2 | |
| <i>Heliopterus ericetorum</i> (Northern White-Skipper) | 1 | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 2 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | 1 | | | | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Vanessa sp</i> | 5 | |
| Lycaenidae (Hairstreaks) | | | <i>Hesperia sp?</i> | 1 | |
| <i>Atides halesus</i> (Great Purple Hairstreak) | | | <i>Blue sp</i> | 10 | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | <i>Erynnis sp</i> | 2 | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 4 | | <i>White sp</i> | 2 | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 3 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 13 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | 5 | | | | |

Surveyor MYERS/MIGAUGH

Segment # MAP 28-34

Date: 5-3-10

Comments:

Plant Communities and Habitat Information:

channel
oak woodland
willow riparian
small meadows

Host Plants Present: CASTILLEJA (MAPPED)

Nectar Plants Present: CRYPTANTHUS
BLUE DICKS
ERIGONIA
LEWIS SPP.
YELLOW COMPOSITE SPP

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Cuyamaca Peak Survey Segment Maps 30, 31, 32, 34
 Surveyor Bob Fleckner, Laurie Goldman Date 5/14/16 Survey Week Number 2
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 0840 | 0% | clear patchy overcast drizzle shower | 0-3mph | 71.2°F |
| 0950 | 0% | clear patchy overcast drizzle shower | 3-6mph | 70.4°F |
| 1100 | 0% | clear patchy overcast drizzle shower | 4-8mph | 67.6°F |
| 1220 | 0% | clear patchy overcast drizzle shower | 4-8mph | 76.6°F |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1310 | 0% | clear patchy overcast drizzle shower | 4-6mph | 80.5°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-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 1 | 1 |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 4 | 1 |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 1 | - | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>VANESSA SP.</i> | 2 | - |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>DUSKYWING SP.</i> | 1 | - |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | 2 | - | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 1 | 1 | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 7 | - | | | |
| <i>Celastrina ladon</i> (Echo Blue) | 14 | 10 | | | |

Surveyor Rob Flecker/Laura Comas Segment # 30-32 + 34 Date: 5/4/16

Comments: MAPS 30/31/32: From Boulder Creek Rd east up the west face of Cuyamaca Peak: Presumably Chaparral w/ NO host plants present & very few nectar sources

MAP 34: CSEXE + COR RIG present in CLOW along AR.

Plant Communities and Habitat Information: Fine flowering Chaparral (Maps 30, 31, 32)
Chaparral / Coast line oak woodland (024)

Host Plants Present: CSEXE + COR RIG: Both found in Chaparral / CLOW
Area on Map 024

Nectar Plants Present: *Erdium* sp., *Cryptantha* sp., *Plagiobothrys* sp., *Amelanchier* sp.,
Quercus sp., HIRING, SALCLE, CEALEN, TRILAN, MUMCLE, SISBEL, NESWAI,
CBAGRE, LOTSTR, CASAFI, VIOPDA, ~~MA~~ CEAFOL, DICCAF, PENICEN,
SOMAL, GILANG, LUPBIC, SALCOL, LOTSCO, LIN PAR, PENSPE

Quino Sighting —

Date:

GPS Location:

Photographs Taken: 4

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Descanso Boulder Creek Rd Survey Segment Maps 30, 34, 35, 36
 Surveyor Laurie Gorman, Nate Date 5-5-10 Survey Week Number 2
 Survey Partner(s) Moorhatch
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

Boulder Creek Road

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 0836 | 0% | clear patchy overcast drizzle shower | 0-3 mph | 68°F |
| 1303 | 0% | clear patchy overcast drizzle shower | 3-6 mph | 84°F |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1350 | | clear patchy overcast drizzle shower | 0-5 mph | 77°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-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marinx</i> (Marine Blue) | | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | 11 | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 1 | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 1 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 11 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | Unidentified skipper | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Erynnis</i> sp. | 11 | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Calliphrys perplexa</i> (Perplexing Hairstreak) | 1111 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 1111 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 1111 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

larva → 1

many vials with perplexing hairstreak larvae

Surveyor LG + N.M

Segment # Maps 30, 34-36

Date: 5-5-10

Comments:

Plant Communities and Habitat Information:

Host Plants Present:

Nectar Plants Present:

Sidalcea malvaeflora
 Cryptantha sp., *Erodium* sp., *Plagiobothrys*, *Carissonia* sp., *Lupinus* sp.
 mustard, *Cercocarpus betuloides*, *Claytonia perfoliata*, *Erodium cicutarium*, *Ceanothus*
leucodermis, *Yucca whipplei*, *Ceanothus greggii*, *Clematis* sp., *Marah macrocarpus*,
Carissonia californica, *Phacelia parryi*, *Trifolium hirtum*, *Trichostema lanceolata*,
~~Phacelia~~ *Dichostemma capitatum*, *Sisyrinchium bellum*, *Lathyrus vestitus*, *Hirschfeldia*

Quino Sighting

Date:

GPS Location:

Amsyria menziesii incana

Photographs Taken:

| | | |
|-----|-----|---|
| 1. | 2. | <i>Lotus</i> sp. bindweed, crua |
| 4. | 5. | <i>Mimulus aurantiacus</i> , <i>Phacelia californica</i> |
| 7. | 8. | <i>Carissonia</i> sp., <i>Phacelia cicutaria</i> |
| 10. | 11. | <i>Lotus superius</i> , <i>Solanum parishii</i> |
| | | <i>CA. Poppy</i> , <i>Erigeron</i> sp., <i>Erigeron</i> sp. |
| | | <i>with radish</i> , <i>Erigeron</i> sp. |
| | | <i>Castilleja</i> , <i>Adiantum</i> , <i>Erigeron</i> sp. |
| | | <i>1 esthinta californica</i> , <i>Erigeron</i> sp. |

Penstemon spectabilis
Clarkia purpurea
Pectocarya sp.
Penstemon centrasiaticus

Quino Checkerspot General Form

Adult Survey

Location 5M6033, 4D, 12/19/94 Survey Segment _____
 Surveyor NR Date 05-May-10 Survey Week Number 2
 Survey Partner(s) JG
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|--------------|----------|
| Start 0850 | | clear | patchy | overcast | drizzle | shower | 1-3 | 63 |
| | | clear | patchy | overcast | drizzle | shower | 3-7 | 71 |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop 1440 | | clear | patchy | overcast | drizzle | shower | 2-5 | 77 |

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

Quino Checkerspot General Form

Adult Survey

Location MAPS 37 & 38 Survey Segment _____
 Surveyor N. KIMBALL, M. WILCOX Date 4 MAY 10 Survey Week Number 2
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 0915 | 0 | clear patchy overcast drizzle shower | 1-2 mph | 66°F |
| 1211 | 0 | clear patchy overcast drizzle shower | 1-3 mph | 75°F |
| 1450 | 0 | clear patchy overcast drizzle shower | 1-3 mph | 83°F |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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

Surveyor N. KIMBALL,
M. WILCOX

Segment # _____

Date: 4 MAY 10

Comments:

COHU * LAST (ON NEST) ASPID TIG
CORA CARI W/2 EGGS UTA STAN'S
BCSD ^{IN SM} SALVA DRY CORA
CAJV APLANA SCAL ORC
CATO
NOFI
WEST
CATH
ATEL
ACWO
SPTO
WREN
TJVU
PHAI
NOMO
LABV

Plant Communities and Habitat Information:

Host Plants Present: CASTILLEJA EXERTA, PLANTAGO BRECHA

ERIOD CRASS, MEL INDI, VERICUM SP, CERCIVM SP, CALO SPLEND
CEON LEU, GNADMALIUM SP, MARRU VULG, CAST AFFINIS, MARAM MAC,

Nectar Plants Present: BLUE DICK, AMMISOXIA SP, LOTUS SP (SM, OR/WH)

CIRCIUM, MUSTARDS, LUPINUS BICOLOR, CALYSTEGIA MACROSTEGIA
SAL COL, YUC WHIP, CRYD SP, SYB BEL, ERIO CIN, ALLIUM, SIL GAN,
ERI CONF, CHAE SP, ERIO FASC, WOOLY BLUE CURLS, HEL SP, LUP (HOARY/
STINGING), CAST SP. (NOT OWLS CLOVER), PHAC PAR, LOT SCO, MILKWEED (WHT. FUZ

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location CNF Page 40-39 Survey Segment Pa 40
 Surveyor John Green Date 5 May 10 Survey Week Number 22
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: 273012-273031 Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | clear | patchy | overcast | drizzle | shower | Wind (range) | Temp (F) |
|--------------|---------|---------|--------|----------|---------|--------|------------------|----------|
| Start 1130 | 0 | (clear) | patchy | overcast | drizzle | shower | 0.6 avg, 34 max | 74° |
| 1440 | 25 | clear | patchy | overcast | drizzle | shower | 2.2 avg, 4.9 max | 77° |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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

Surveyor John Green

Segment # Pg. 40

Date: 5 May 10

Comments: Humwa-sp

CORA WREB, BCSP SPTO HOWR CATH
CALT BHGR ACWO CAQV OATI AMCR
ATFL MOQU MODO BEWR WSJA

WIWA - dead under lines

West. Whiptail

Plant Communities and Habitat Information:

Host Plants Present: Plantago pat.

Nectar Plants Present: Plagios, Erodium, Chaparral Pen, Lencathus, Sugar bush, Mimulus arcaud, Monarda
Suncups, Chia, Phacelia #2, Blue Dicks, Lotus annual, Red Maid,
Erug. fas., Stinging Lupine, Yucca, Mustards, Lup. bicolor,
Dandelion, Wool, Blue Curly, Gold. Yarrow, Rock Lotus,
Cyananthus, Allium @ seep below 273013, Mimulus aur.

Quino Sighting Date: GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Map 42-44

Adult Survey

Location Deslanso CA Survey Segment T L625
 Surveyor Robert Miller - CGI Date 4/27/16 Survey Week Number # 2
 Survey Partner(s) Dave King - AMEL
 Total Acres: _____ Portion Surveyed: Polos 270957-270907 Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------------|----------|
| Start 1030 | 5% | clear | patchy | overcast | drizzle | shower | 75° |
| 1220 | 20% | clear | patchy | overcast | drizzle | shower | 78° |
| 1450 | 30% | clear | patchy | overcast | drizzle | shower | 75.6° |
| 1615 | 40% | clear | patchy | overcast | drizzle | shower | 78.5° |
| | | clear | patchy | overcast | drizzle | shower | |
| | | clear | patchy | overcast | drizzle | shower | |
| Stop | | clear | patchy | overcast | drizzle | shower | |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 1 | - |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 1 | - | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | 1 | - |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 17 | 10 |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 3 | 2 | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | 1 | - | <i>B. charis Metal Mark</i> | 9 | 5 |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Lady Sp.</i> | 1 | - |
| Lycaenidae (Hairstreaks) | | | <i>Blue Sp.</i> | 1 | - |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia aemon</i> (Aemon Blue) | 17 | 10 | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor

Rob Hatcher

Segment #

map 42-44
TL625

Date:

4/27/10

Comments:

This alignment mostly in private property parcels. Mixed habitat types with some open areas w/ host plants suitable for QCB. CASEXE mostly setting seed & beginning to dry out. COLR16 just popping up in small, localized patches.

Plant Communities and Habitat Information:

Inland DCSS mixed w/ Chaparral and some open CLOW.

Host Plants Present:

CASEXE, COLR16. Sporadic patches of CASEXE throughout survey area. COLR16 coming up in localized patches.

Nectar Plants Present:

Erodium sp, Cnaphaloceros, Pteridochloa sp, Commersonia sp, MILCIN, LOTSTR, DICCAP, GILANG, LOTCON, PHAGKA, CASEXE, TRIWIL, LOTAR26, AMSMEN, LEALEU, SALLOL, GNACAL, CLAPUR, MAZMAC, CALCIL, ESHCAL, SOLXAN, LASCAL, VIOPEN, LOTSCO, PHAPAR

Quino Sighting

Date:

GPS Location:

Photographs Taken:

Dave took lots of pics

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Maps 42-44 Survey Segment _____
 Surveyor David King Date 4/27/10 Survey Week Number 1/2 (only west side of map 44, can't see #5)
 Survey Partner(s) Rob Flecton
 Total Acres: _____ Portion Surveyed: Poles 272948 - 163853 Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------------------|--|----------------------|--------------|
| Start 1030 | 0 | (clear) patchy overcast drizzle shower | 1-6 ^{ave 4} | 71g / 75 air |
| 1220 | 0 | (clear) patchy overcast drizzle shower | 1-6 ^{ave 2} | 78g / 76 air |
| 1450 | 0 | (clear) patchy overcast drizzle shower | 2-6 ^{ave 4} | 76g / 75 air |
| 1615 End | 0 ^{14% bc} | (clear) patchy overcast drizzle shower | 0-6 | 78g / 76 air |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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

Surveyor King

Segment # MS 42-44 Date: 4/27/10

Comments: unable to access poles 272958-272952 - access through woods + farm
 able to begin at 272948 and south, miss a few areas that pass
 through yards or over houses
 - clear, calm weather, but seemingly few butterflies out

Plant Communities and Habitat Information:

272948 - 272952 southern mixed chap dom change with patches
 of coastal sage scrub dom Eriogonum fasciculatum - dense but with ^{smaller} openings
 and ~~access~~ access rd is ~~vegetation~~ w/ wild fling. Cool

Host Plants Present: Continuous sct / patchy Castilleja erecta, primarily in utility corridor /
 access ~~edges~~ edges from 272944 to 272925
 from (can't read on map, W. edge of ^{AP} field - W. edge of map 44 - Cordulaspis stalks
 sprout on all dirt roads + open areas - not have best marks

Nectar Plants Present:

| | | | |
|------------------------|---------------------------|------------------------------|----------------------|
| Clarkia (2 spp.) | Dichlosterum ml | Clarkia sp (similar dalcick) | Yucca whip |
| Lotus succ | Erythronium spp | Amisparkia a. | Rhus int |
| Trifolium mellidenarii | Rhagiobolus spp | Erodium cyp | Gnaphalium |
| Psilostachya sp | (yellow aster-daisy-like) | Erodium bothrys | Baccharis naja |
| | Clarkia purp | Chia | Claytonia sp. |
| | | | Phacelia grandiflora |

Quino Sighting

Date:

GPS Location:

Calandrinia cal.
 Gilia angulosa
 Asclepias californica
 Calceolaria operta
 Indigo plantain
 Tricostema sp.
 Lasthenia ex
 Viola pendunc.
 male fat
 Viola sp.
 Calochortus sphaerius

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location ME50 Survey Segment _____
 Surveyor DAVID KING Date 4/13 Survey Week Number 2
 Survey Partner(s) NICKIE Rank/South from
 Total Acres: _____ Portion Surveyed: 574.437 Elevation: Max _____ Min _____
10 years valley rd
(John Henry N. from here)

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|-------------------|-----------|---|------------------------|------------------|
| Start <u>1535</u> | <u>50</u> | clear <u>(patchy)</u> overcast drizzle shower | <u>0-9</u> <u>40.7</u> | <u>62.6/64.1</u> |
| End <u>1714</u> | <u>50</u> | clear <u>(patchy)</u> overcast drizzle shower | <u>2-5</u> <u>m/h</u> | <u>62.8/54.1</u> |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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

no butterflies, too cold

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

Surveyor King

Segment # MS 50

Date: 4/13/10

Comments: saw from 571437, south along access rd to last pole
Raccoon
RSTO
SP sp. Castilleja ex on both sides of rd & in all openings in chip from
mule ~~was~~ before half way past to end of access rd ~~at~~ 439 - showing a 10" deep
trough

Plant Communities and Habitat Information:

Host Plants Present:

Nectar Plants Present:

| | | |
|--|---|---|
| <u>Lupinus (big, purple)</u> <u>cryptanthus sp.</u> | <u>Salvia columbiana</u> <u>pectocarpa</u> | <u>lobelia</u> sp. <u>silene sp.</u> |
| <u>Bressica sp.</u> | <u>Erodium cili</u> | |
| <u>woolly Lupines</u> | <u>siemens mustn</u> | |

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

57 to 58 stopped on the way but 4-2-10 (next page beyond)

Quino Checkerspot General Form

Adult Survey

Location 571337 to 571433 Survey Segment MS-050
 Surveyor John Green Date 3-27-10 Survey Week Number 28
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--|-----------------|----------|
| Start 1545 | 30% | clear (patchy) overcast drizzle shower | 0-9, 7 avg. | 62° |
| 1600 | | clear (patchy) overcast drizzle shower | 0-2, 0.7 avg. | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1600 | 30 | clear (patchy) overcast drizzle shower | 0-3.7, 1.3 avg. | 50° |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marira</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Ponita protodice</i> (Checkered White) | | |
| Hesperidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>No butterflies</i> | | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | | | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Quino Checkerspot General Form

Adult Survey

Location Map 04, 51, +5 - 50 Survey Segment _____
 Surveyor NK Date 13-Apr-12 Survey Week Number 2
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | clear | patchy | overcast | drizzle | shower | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|--------------|----------|
| Start 1100 | 20 | clear | patchy | overcast | drizzle | shower | 0-1 | 64 |
| 1200 | 15 | clear | patchy | overcast | drizzle | shower | 3-5 W | 68 |
| 1300 | 25 | clear | patchy | overcast | drizzle | shower | 3-5 W | 71 |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop 1700 | 30 | clear | patchy | overcast | drizzle | shower | 0-4 | 60 |

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

Quino Checkerspot General Form

Adult Survey

Location MS55 (from Manzanita R) to fence near pole 57744 Survey Segment _____
 Surveyor DAVID KING Date 4/13/10 Survey Week Number 2
 Survey Partner(s) none
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____
moderate rain yesterday, ground is wet

1155

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|---|---------|--|-----------------------|--|
| Start <u>Spring break</u> <u>11:45</u> | 20% | clear <u>(patchy)</u> overcast drizzle shower | 0-5 ^{to} 8 | 58 ⁺ rising / 56 ⁺ |
| 1225 | 20% | clear <u>(patchy)</u> overcast drizzle shower | 1-2 | 66 ⁺ / 56 ⁺ air |
| 1400 | 30% | clear <u>(patchy)</u> ^{sunny} overcast drizzle shower | 4-8 | 65 ⁺ / 61.5 ⁺ |
| 1545 | 15% | clear <u>(patchy)</u> overcast drizzle shower | 4-14 ^{ave} 8 | 61 ⁺ / 53 ⁺ air |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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

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

Surveyor ^{Dr King} King

Segment # MS 55 Northern 1/2

Date: 4/13/10

1150 Comments: started w/ marginal Temp 55 at ground, ~~to~~ is shaded say. Air cold when breeze picks up - good solar radiation. Collecting blooming plant name on trip out, will collect b-fb data once air warms.

W. fence lizard 1230 - 4 avian excrement cool wind insects beginning to appear - started b-fb 52m
 n. side of road 223 998, birds north
 1250 1st orange tip
 ① - 1000's of *Cactophilus* excrement on cat store surrounding NE end of sub station, on open ground. Co-dominant w/ *Cryptanthus* sp. a sparse *Arvicola*
 B. patch sylvia
 B. SP
 E. SP
 A. SP
 B. SP (pink) - mapped
 D. SP
 S. SP
 CATO
 T. SP
 M. SP
 P. THA
 C. SP
 B. SP

Plant Communities and Habitat Information:

Remnant S. mixed chaparral

Host Plants Present:

Nectar Plants Present: - All blooming

| | | | | | |
|--------------------------|---|--------------------------|-------------------------------|---------------------|------------------------|
| <i>Phacelia parryi</i> | <i>Cryptantha</i> spp. | Common (small) | <i>Vaccinium</i> (white) rose | Redmaids | Goldfinches |
| <i>Erodium</i> sp. | <i>Platyschisma</i> sp. | unknown | <i>Erigeron</i> spp. | Redmaids | photo |
| <i>Silene columbiana</i> | sm. yellow flowers | <i>Gnaphalium</i> spp. | <i>Marah</i> nelson | Redmaids | <i>Leucostemum</i> sp. |
| <i>Lupinus</i> spp. | Platyschisma <i>Pectocarya</i> sp. | unk. - mt. (Plum) meadow | Walrus ear drop | Redmaids | <i>Lupinus</i> spp. |
| sm. yellow cilia | <i>Ceanothus</i> spp. | <i>Rosa</i> spp. | <i>Erigeron</i> spp. | Redmaids | <i>Erigeron</i> spp. |
| | chop pea | <i>Calyptochloa</i> sp. | | Redmaids | <i>Erigeron</i> spp. |
| | spring bells | | | Redmaids | <i>Erigeron</i> spp. |

Quino Sighting

Date: 4/13/10 GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Pages 055, 056, 057 S. of Mezzanite Survey Segment _____
 Surveyor John Green Date 13 Apr 10 Survey Week Number 2
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: 257147 - 257187 Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|-------------------|-----------|---|--------------|-------------|
| Start <u>1:00</u> | <u>25</u> | clear <u>(patchy)</u> overcast drizzle shower | <u>1-4</u> | <u>62.2</u> |
| <u>1:30</u> | <u>45</u> | clear <u>(patchy)</u> overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop <u>1:50</u> | <u>20</u> | clear <u>(patchy)</u> overcast drizzle shower | <u>1-5</u> | <u>59.5</u> |

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

Quino Checkerspot General Form

71-74
701500
701500

Adult Survey

Location _____ Survey Segment Map
 Surveyor Laurie Gorman Date 5-7-10 Survey Week Number 2
 Survey Partner(s) Steve Myers
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 0940 | 0% | clear patchy overcast drizzle shower | 4-6 mph | 70°F |
| 1050 | 0% | clear patchy overcast drizzle shower | 4-8 mph | 72°F |
| 1300 | 0% | clear patchy overcast drizzle shower | 2-5 mph | 78°F |
| 1420 | 0% | clear patchy overcast drizzle shower | 1-5 mph | 80°F |
| 1502 | 0% | clear patchy overcast drizzle shower | 0-3 mph | 83.5°F |
| Stop 1540 | 0% | clear patchy overcast drizzle shower | 2-5 mph | 78°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-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | 9 | | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | 42+ | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | 11 | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 1 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 17+ | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | 11 | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 1 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 1 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | Cappadocian | | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | Marble Pearly Marble | 11 | |
| Lycanidae (Hairstreaks) | | | (<i>Euchloe hyartii</i>) | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | <i>Erynnis</i> sp. | 1 | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 1 | | Common Sooty-wing | 1 | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | <i>Vanessa</i> sp. | 1 | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 1 | | <i>Pontia</i> sp. | 1 | |
| <i>Icarcia acmon</i> (Acmon Blue) | 14 + 1 | | unidentified blue | 4 | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor Lauree Gorman & Steve Myers Segment # Map 71-74 Date: 5-7-10

Comments:

Plant Communities and Habitat Information: Chaparral, Great Basin Sagebrush

Host Plants Present: Collinsia concolor

Nectar Plants Present: Penstemon centranthifolius, Trichostema parishii, hastinia californica, Ceonothus leucodermis, Paeonia californica, Eriophyllum sp., Erodium cicutarium, Cryptantha sp., Eriophyllum confertiflorum, Comissaria sp., mustard, Amsinckia menziesii, Yucca whipplei, Phacelia distans, Gilia capitata, Lupinus concinnus, chia, Lupinus bicolor, Lupinus sp., Calycoseris parryi, Linanthus lemmonii, Plagiobothrys sp., Ericameria linearifolia, Arabis sp.

Quino Sighting Date: GPS Location: Penstemon spectabilis, Lotus scoparius, Ephedra californica, Collinsia toliolosa

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Yucca schottigera

Quino Checkerspot General Form

Adult Survey

Location CNF Survey Segment Maps 2-4
 Surveyor Stephen J. Myers Date 10 May 10 Survey Week Number 3
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | clear | patchy | overcast | drizzle | shower | Wind (range) | Temp (F) |
|--------------|---------|-------|-----------|----------|---------|--------|--------------|----------|
| Start 1010 | 50 | | (circled) | | | | 0-2 | 61° |
| 1120 | 40 | | (circled) | | | | 0-3 | 60° |
| 1230 | 50 | | (circled) | | | | 2-7 | 60° |
| 1315 | 30 | | (circled) | | | | 2-6 | 64° |
| 1400 | 60 | | (circled) | | | | 2-5 | 64° |
| 1450 | 70 | | (circled) | | | | 3-10 | 60° |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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

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

Surveyor Myers

Segment # Maps 2-4

Date: 10 May 10

Comments:

Plant Communities and Habitat Information:

NNG, Oak woodland + oak savannah, Deerweed scrub

Host Plants Present: Plantago erecta, Castilleja exserta

Nectar Plants Present: Dichelostemma, Lupinus spp., Juricula parryi, Lotus spp.,
Lathraea calif., Phacelia, Salvia columbariae, Penstemon spectabilis

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Hwy 76, Maps 5-8 Survey Segment _____
 Surveyor MCGOUGH Date 5-10-10 Survey Week Number 3
 Survey Partner(s) MILCOX - WEST
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|----------------------------|--------------|---|---------------|----------------|
| Start <u> 1110 </u> | <u> 76% </u> | clear <u> patchy overcast </u> drizzle shower | <u> 1-3 </u> | <u> 60° </u> |
| | | clear patchy overcast drizzle shower | | |
| <u> arrive loco 510 F </u> | | clear <u> patchy overcast </u> drizzle shower | | <u> 51° </u> |
| | | clear patchy overcast drizzle shower | | |
| <u> 1400 </u> | | clear <u> patchy overcast </u> drizzle shower | | <u> 64° F </u> |
| | | clear patchy overcast drizzle shower | | |
| Stop <u> 1530 </u> | | clear <u> patchy overcast </u> drizzle shower | <u> 4-15 </u> | <u> 56° F </u> |

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

Surveyor MSGAUGH

Segment # MSB 5
#8

Date: 5-10-10

Comments:

Plant Communities and Habitat Information:

CHARRAC
CSS
GAL WOODLAND

Host Plants Present:

PLANTAGE + OWL'S CLOVER STILL IN GOOD SHAPE BUT BEING
HIDDEN BY GRASSES

Nectar Plants Present:

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location MRS 5-8 Survey Segment _____
 Surveyor MCGOUGH Date Cinco de Mayo Survey Week Number 3
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|-------------------|----------|--------------|--------|----------|---------|--------|--------------|------------|
| Start <u>0930</u> | <u>0</u> | <u>clear</u> | patchy | overcast | drizzle | shower | <u>0-2</u> | <u>70°</u> |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop <u>1610</u> | <u>0</u> | <u>clear</u> | patchy | overcast | drizzle | shower | <u>2-6</u> | <u>68°</u> |

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

Surveyor MCGAUGH

Segment # WABS 5-8

Date: May 5, 2010

Comments:

Nice day for survey - good weather, flowers, not much wind BUT ... so few BUTTERFLIES!

Plant Communities and Habitat Information:

chaparral
oak woodland
grassland

Host Plants Present:

Plantain, previously mapped, in pretty good condition
Castilleja - previously mapped

Nectar Plants Present:

many

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Maps 9-10

Adult Survey

Location CNF - San Luis Rey River Survey Segment Hiway 76 (West)
 Surveyor MCGAUGH Date 5-12-10 Survey Week Number 3
 Survey Partner(s) MERS
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | clear | patchy | overcast | drizzle | shower | Wind (range) | Temp (F) |
|-------------------|----------|--------------|--------|----------|---------|--------|--------------|-----------|
| Start <u>0740</u> | <u>0</u> | <u>clear</u> | | | | | <u>0-2</u> | <u>61</u> |
| <u>1120</u> | <u>0</u> | <u>clear</u> | | | | | <u>2-6</u> | <u>67</u> |
| <u>1200</u> | <u>0</u> | <u>clear</u> | | | | | <u>3-8</u> | <u>67</u> |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marix</i> (Marine Blue) | 1 | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | 1 | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | 12 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | 4 | | <i>Papilio eurymedon</i> (Pale Swallowtail) | 2 | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 3 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | 1 | | <i>Coranus Blue</i> | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Sulphur</i> | 1 | |
| Lycaenidae (Hairstreaks) | | | <i>Blue sp</i> | 7 | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | <i>White sp</i> | 1 | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | 11 | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 17 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | 1 | | | | |

Surveyor CM, SM Segment # Maps 9-10 Date: 12-May-10

Comments:

Lined area for handwritten comments.

Plant Communities and Habitat Information:

Lined area for handwritten plant community and habitat information.

Host Plants Present:

Lined area for handwritten host plants present.

Nectar Plants Present:

Lined area for handwritten nectar plants present.

Quino Sighting Date: GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Map 28 & 29, 30, 34-36 Survey Segment _____
 Surveyor N. Kimball, N. Moorhead Date 5/12/10 Survey Week Number 3
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--|--------------|----------|
| Start 0955 | 0 | (clear) patchy overcast drizzle shower | 2-3 mph | 64 |
| 1345 | 0 | (clear) patchy overcast drizzle shower | 4-7 mph | 87 |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 15:05 | 0 | (clear) patchy overcast drizzle shower | 2-4 mph | 74 |

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) | Hill-topping |
|---|---------------|----------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes mariza</i> (Marine Blue) | | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | 1 | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 111 | 111 |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 11 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nictippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 11 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | 1 | | <i>Becker's White</i> | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | | | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | 11 | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | | many ← 111 111 | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | 111 111 | | | |

Surveyor NK + NM

Segment # Maps 26-29, 30, 34-36

Date: 5/12/10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Cordylanthus rigidus, Castilleja exserta, Collinsia

Yucca schidison, Peaonia Red Maids, Pectocarya, Lupinus hispid, Hirsch. incana, Lasth. cal., Eriophyllum
Penstemon centranthi, Chia, Mimulus bigelovii, Salvia stevei, Claytonia, Achillea mille., ~~Eriog.~~
Eriog. fasc., Sidalcea malvi, Linanthus parviflorus, Plantago patagonica, Cercocarpis bet., Castill. affinis, Penst. spect.

Nectar Plants Present: Eschscholzia cal., Erod. cicut., Lupinus bicolor, Cryptantha sp., Yucca whip.,
Trichostema parryi, Phacelia parryi, Amsinckia menz, Lotus scaparin, Plagiobothrys, Clematis, Camissonia sp.,
Rose clover, Trifolium wildenovii, Plantago ovata, Penstemon heterophyllus, Silene gallica, Anagallis arvensis
Hypochaeris, Eriophyllum confertii, Calochortus albus, Dichelostemma capi., Mimulus aurantiacus, Blue eyes,
Marah macro, Ceanothus leuco, Clarkia sp., Sambucus mex., Toxicodendron, Lonicera, Rosa cal., Phacelia cicut.

Quino Sighting Erodium botrys. Date: Blue-eyed grass GPS Location: Gnaphalium bicolor, Gilia sp.

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Map 3033 Survey Segment Maps 30-33
 Surveyor Laura Gorman Date 5-13-10 Survey Week Number _____
 Survey Partner(s) Nate Moorhatch
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--|--------------|----------|
| Start 0930 | 0 | (clear) patchy overcast drizzle shower | 0-2.5 mph | 62 |
| 1241 | 10% Min | (clear) patchy overcast drizzle shower | 3-7 mph | 74.5°F |
| 1345 | 15% Min | (clear) patchy overcast drizzle shower | 0-3 mph | 73.0°F |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1500 | 10% | (clear) patchy overcast drizzle shower | 3-8 mph | 68.0°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-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|-----------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | 1 | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutuhus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | 1 | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 1 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | Unknown Skipper (Juba-like) | 111 | 111 |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | | | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | 111 | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 1 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | 111 111 111 111 | | | | |

Surveyor LG + NM

Segment # Maps 30-33

Date: 13-May-10

Comments:

Plant Communities and Habitat Information:

Host Plants Present:

Nectar Plants Present:

Cryptantha, Dichelastemma cap, Erad. sic, Camiscunia sp, YUC WHI, TRI PAR, CED FOL, SAL SON, MIMCLE, Lomatium sp, SIS BEZ, HYPOLA, Lotus sp, CED GRE, Clematis sp, WUP BIG, Lupinus sp, LIN FLO, SOL PAR, PENCEN, GILCAP, TRE WIL, NEM MEA,

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Maps 37 + 38 Survey Segment _____
 Surveyor NK & MB Date 07-May-10 Survey Week Number 3
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|-------------------|----------|---|--------------|--------------------|
| Start <u>0830</u> | <u>0</u> | <u>clear</u> patchy overcast drizzle shower | <u>0-1</u> | <u>61 (Air-66)</u> |
| <u>0650</u> | <u>-</u> | clear patchy overcast drizzle shower | <u>-</u> | <u>-</u> |
| <u>1150</u> | <u>0</u> | <u>clear</u> patchy overcast drizzle shower | <u>2-5</u> | <u>87 (Air-79)</u> |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop <u>1405</u> | <u>0</u> | <u>clear</u> patchy overcast drizzle shower | <u>3-5</u> | <u>85 (Air-82)</u> |

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

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

Surveyor NK + MB Segment # Maps 37 + 38 Date: 07-May-10

Comments: Had to wait for ground to warm up; Surprisingly very low butterfly activity on top of hill @ E-most portion of Map 38, espec. w/ Plants, Cast., & Cord. present

Plant Communities and Habitat Information:

Host Plants Present: Cest. ex. (beg. to go to seed), Cord. rig. (finely scattered top 2/3 of hill @ E-most portion of Map 38); P. pat. (beg. to flower in same section as Cord. rig.); P. es. beg. to go to seed

Flowering Nectar Plants Present: Sol. coh, Mustard, Eriogonum, Eria. grass, Hypo., Meli. ind., Crypt., Caly. maen., Woolly Blue oak, Eri. ci., Inc. whp, Allium, Eria. comb, Helianth. Helianthus, Lup. bi., Cirsium, Syc. bel., Stinging lupine, Cord. off., Lot. scop., Dich. cap., Senecio, Clean. leuco, Wild Pan. Pectay, Michaux, ~~Datura~~, Datura, ~~Mim. br.~~ Mim. aur., Helianth. in., Sil gal, Ade. tas, ana. arl, cal. sp. en, Blomelia, A. d. davis, Pow. grow, Phac. pa.

Quino Sighting Date: GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Map 40 Survey Segment _____
 Surveyor Nic Date 12-May-10 Survey Week Number 3
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|-------------|
| Start 0858 | 0 | clear patchy overcast drizzle shower | 0-1 | 61 (Air-63) |
| 1138 | 5 | clear patchy overcast drizzle shower | 3-7 | 72 (Air-71) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1345 | 15 | clear patchy overcast drizzle shower | 6-9 | 83 (Air-75) |

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

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

Surveyor

NK

Segment #

Map 40

Date:

12-May-10

Comments: Map 40 - Arcto, Quercus Adnosterma, Coenothus - tree shrubs

Plant Communities and Habitat Information:

Host Plants Present: Cast. ox - going to seed

Con. nig. - up to bin tall (Map 40) - beg to sprout (Map 41)

Flowering Noctar Plants Present: Wild Pea, Yuc. whip, Lam. usonia, Crypt. Er. cis, Coen. lancea, Mustard, Rhus ovata, Sol. coly, Dick. cap, Phac. par, Stinging Lupine, Enigomum, Ena. conf, Hypo, Mim. brew, lup. bei, Woolly Bluebird, Clarkia, lot. scop, Sid. gal, Asi. fasc, Phac. ar, Mim. am, Rock Lotus, Penstemon, Plagio, Mia. big, Pecto, Clay. per, Helianthus, P. appenwood, Sidalusa, Phlox, Syp. bel, Esch. cal, Yuc. schi, Sol. par, Gilia, Lemnium, Cast. affinis, Trifolium, Red Maids

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location _____ Survey Segment Maps 41-43
 Surveyor Laurie Gorman Date 5-14-10 Survey Week Number 3
 Survey Partner(s) Mike Wilcox
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | clear | patchy | overcast | drizzle | shower | Wind (range) | Temp (F) |
|-------------------|------------|--------------|--------|----------|---------|--------|-----------------|---------------|
| Start <u>0900</u> | <u>0%</u> | <u>clear</u> | patchy | overcast | drizzle | shower | <u>0-2 mph</u> | <u>68.0°F</u> |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop <u>1350</u> | <u>15%</u> | <u>clear</u> | patchy | overcast | drizzle | shower | <u>0-12 mph</u> | <u>73.0°F</u> |

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

Surveyor MW + LG

Segment # Maps 41-44

Date: 14 May 10

Comments:

Blank lined area for handwritten comments.

Plant Communities and Habitat Information:

Blank lined area for handwritten plant community and habitat information.

Host Plants Present: *Castilleja exerta*, *Plantago patagonica* (growing in road access)

Blank lined area for handwritten host plant information.

Nectar Plants Present: Mustard, PENCEN, *Lamissonia* sp., *Cryptantha* sp., ERO BOT DIC CAP, ERI CON, CIR OCC, LOT SCOP, HYR GLA, TRI PAR, CLA PUR, YUC WHI, LUP BIC, SIL GAL, YUC SCH, ASC CAL, CAT VES, DOD CLE, LOT CIR, ~~TRIFOL~~ *Trifolium* sp., ERO CIR, SPH ROS, ANA ARV, TRI ALB, ACH MIL, CAL GLE, *Astragalus* sp., CEN VEN, GNA CAL, CLA PAR, *Plagiobothrys* sp., CAS FOL, PENS PE, CHIA, SYS BEL, *Cotus* sp.

Quino Sighting

Date:

GPS Location:

Blank lined area for handwritten quino sighting details.

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Pages

Adult Survey

Location CNF / SDG # E

Survey Segment

49-56 (not 52-53)

Surveyor John Green

Date 27 April 10

Survey Week Number 3

Survey Partner(s) Chet McLaughlin, Steve Myers

Total Acres: _____ Portion Surveyed: _____

Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | clear | patchy | overcast | drizzle | shower | Wind (range) | Temp (F) |
|-------------------|---------------|--------------|---------------|-----------------|----------------|---------------|--------------|------------|
| Start <u>1000</u> | <u>0</u> | <u>clear</u> | <u>patchy</u> | <u>overcast</u> | <u>drizzle</u> | <u>shower</u> | <u>0-1</u> | <u>70°</u> |
| <u>1150</u> | <u>10</u> | <u>clear</u> | <u>patchy</u> | <u>overcast</u> | <u>drizzle</u> | <u>shower</u> | <u>3-5</u> | <u>73</u> |
| <u>1300</u> | <u>50 4/T</u> | <u>clear</u> | <u>patchy</u> | <u>overcast</u> | <u>drizzle</u> | <u>shower</u> | <u>2-5</u> | <u>73</u> |
| <u>1430</u> | <u>20</u> | <u>clear</u> | <u>patchy</u> | <u>overcast</u> | <u>drizzle</u> | <u>shower</u> | <u>1-5</u> | <u>74</u> |
| <u>1600</u> | <u>20</u> | <u>clear</u> | <u>patchy</u> | <u>overcast</u> | <u>drizzle</u> | <u>shower</u> | <u>2-6</u> | <u>70</u> |
| | | <u>clear</u> | <u>patchy</u> | <u>overcast</u> | <u>drizzle</u> | <u>shower</u> | | |
| Stop <u>1520</u> | <u>20</u> | <u>clear</u> | <u>patchy</u> | <u>overcast</u> | <u>drizzle</u> | <u>shower</u> | <u>3-6</u> | <u>70</u> |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marino</i> (Marino Blue) | | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philates sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Calcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | <u>13</u> | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | <u>1</u> | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | <u>7</u> | |
| <i>Vanessa atalanta</i> (Red Admiral) | <u>1</u> | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | <u>2</u> | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | <u>54</u> | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | <u>2</u> | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | <u>2</u> | | <i>Colias harrfordii</i> (Harrford's Sulphur) | <u>10</u> | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | <u>7</u> | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>Vanessa</i> sp. | <u>1</u> | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Sister</i> | <u>1</u> | |
| Lycaenidae (Hairstreaks) | | | <i>Erynnis</i> sp. | <u>8</u> | |
| <i>Ailides halesus</i> (Great Purple Hairstreak) | | | <i>Sm. Ch. Skipper?</i> | <u>1</u> | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | <i>Blue-sp.</i> | <u>7</u> | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | <u>4</u> | | <i>Orangetip sp.</i> | <u>31</u> | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | <i>White-sp.</i> | <u>12</u> | |
| <i>Glaucopsyche hydamus</i> (Southern Blue) | <u>1</u> | | <i>Sulphur sp.</i> | <u>15</u> | |
| <i>Icarcia acmon</i> (Acmon Blue) | <u>7</u> | | | | |
| <i>Celastrina ludon</i> (Echo Blue) | | | | | |

Surveyor John Green

Lyons Valley Rd. &
Segment # Deerhorn Valley Date: 4-27-10

Comments:

Plant Communities and Habitat Information: Chaparral, Oak Woodland, NNG,
CSS

Host Plants Present: Plantago erecta & Owl's Clover

Nectar Plants Present: Phacelia, Lupine, Blue Dicks, Goldfields, & many
others

Quino Sighting

Date:

GPS Location:

Photographs Taken:

1.

2.

3.

4.

5.

6.

7.

8.

9.

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11.

12.

Quino Checkerspot General Form

Adult Survey

Location Map 52 (west), 55 Survey Segment _____
 Surveyor NK Date 03-May-10 Survey Week Number 3 - #5 for Map 55
 Survey Partner(s) LL
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|---------------|------------|
| Start 0910 | 0 | clear | patchy | overcast | drizzle | shower | 0-1 | 65 (hr 68) |
| 1118 | 0 | clear | patchy | overcast | drizzle | shower | 4-7 | 76 (hr 79) |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop 1307 | 0 | clear | patchy | overcast | drizzle | shower | 1-9 (ave 4-6) | 85 (hr 79) |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | 1 | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 11 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 1 | 1 |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 1 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | White sp. (most likely <i>E. eriphia</i>) | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | | | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | many (100s) | 1 | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Quino Checkerspot General Form

Adult Survey

Location _____ Survey Segment Maps 52, 56, 57
 Surveyor Laurie Gorman Date 5-3-10 Survey Week Number 3
 Survey Partner(s) Nicole Kimball
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|-------------|
| Start 0910 | 0% | clear patchy overcast drizzle shower | 0-1 | 65°F |
| 0955 | 0% | clear patchy overcast drizzle shower | 5-11.4 mph | 79.0°F |
| 1114 | 0% | clear patchy overcast drizzle shower | 0-2 mph | 79.0°F |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1307 | 0% | clear patchy overcast drizzle shower | 4-6 mph | 85°F (79°F) |

Habitat onsite (circle as applicable) hilltops, ridges, rock outcrops, open soils, soil crusts, clay soils, old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources, dirt access roads, on ground, in air

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

Surveyor Laure Gorman Segment # _____

Date: 5-3-10

Comments:

Plant Communities and Habitat Information: southern mixed chaparral dominant

Host Plants Present: Castilleja exerta

Nectar Plants Present: Erodium botrys, tidy tips, lupinus bicolor, Cryptantha sp., hastaria, Phacelia distans, Penstemon centranthifolius, Papaver californica, Keckiella adirrhinoides, chia, lotus scoparius, Chaenactis art. (white pincushion) CA poppy, bindweed, Phacelia pargyil, Phacelia circutaria, Agrostis grandiflora, Distichlis spicata, Eriophyllum corvettiflorum, mustard, Camissonia sp., yerba santa, Gnaphalium bicolor, Helianthus

Quino Sighting Date: _____ GPS Location: Penstemon scoparius

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Yucca whipplei, Golden earrings, wild pea, Vigiera, Silene condigensis, Eriogonum fasciculatum, blue tar paper

Quino Checkerspot General Form

571467 -
105-070

Adult Survey

Location MS 55 (north from Mackayville Rd) Survey Segment 105-070
 Surveyor David King Date 4/24/10 Survey Week Number 3
 Survey Partner(s) Nicole Kinnell
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--|---------|--------------------------------------|-----------------------------|-------------|
| Start 1205 | 0 | clear patchy overcast drizzle shower | 2-8 mph ^{variable} | 61g / 60air |
| 1300 ^{sun out} _{cloud break} | 2 | clear patchy overcast drizzle shower | 2-12 mph ^{acc} 6 | 63g / 58air |
| 1420 | 30% | clear patchy overcast drizzle shower | 2-15 ^{acc} 6 | 68g / 58air |
| 1520 | 10% | clear patchy overcast drizzle shower | 6-9 ^{acc} 6 | 61g / 65air |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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

Surveyor King

Segment #MS55

Date: 4/23/10

Comments: Rain/snow last 2 days in area
Clear this morning, 34 min but cold at noon start
Typical # of butterflies in the air

unat but; Later... butterflies flying in chitling grasses and dunes (also in breeze
but sparse when cold breeze (68°) is up

ADMS
mole fern (?)

soft
SCSP
SPTD

Cats
Das cottontail

Granite slings
w/ some lichen

hoft

cal ground squirrel

TRUD
WCSF
Awh
mrd

Plant Communities and Habitat Information:

Host Plants Present:

cast. exort. ~ 50 plants (map) w/ boulders 10x50 strip

Blowing
Nectar Plants Present:

| | | | | | |
|-------------------|-----------------|-------------------------|-----------------|-----------------|------------------|
| Eridium c. | Heterotheca sp. | Lotus scoparium | Lotus | Kochuelliia sp. | Festuca sp. |
| Silene spaldingii | sm yellow aster | Camissonia sp. p | Caracassia sp. | Penstemon sp. | African Daisy |
| Cryptantha spp | Bros nigra | Chrys. meloc. Thomas pa | Calistoga major | Golden ear 2011 | mimulus (yellow) |
| Platichthys spp | spring bulbs | Yucca whipplei | Gnaphalium spp. | blue yucca | lupinus seed |
| | | SEALARM sp. | Eriophorum cat | | |
| | | | Rock face | | |

Quino Sighting

chap ren

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Map 05 + 56 Survey Segment _____
 Surveyor NK Date 23 Apr 10 Survey Week Number 3
 Survey Partner(s) DK
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|------------------|-----------|-------|--------|----------|---------|--------|-----------------------------|-----------|
| Start <u>800</u> | <u>5</u> | clear | patchy | overcast | drizzle | shower | <u>1-2 w/gusts up to 11</u> | <u>68</u> |
| <u>1111</u> | <u>10</u> | clear | patchy | overcast | drizzle | shower | <u>5-7 w/gusts up to 6</u> | <u>75</u> |
| <u>1520</u> | <u>15</u> | clear | patchy | overcast | drizzle | shower | <u>5-8</u> | <u>66</u> |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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

Surveyor NK

Segment # Maps 55 + 56

Date: 23-Apr-10

Comments: 5/10s present after sunset, some seen on hillside, 1 on hillside, 1 on hillside (Spring); Saw 2-3 of them on hillside - foraging, hill-topping, & mating; Chalcids located @ cusp of Map 56 + 57 @ top of hill

Plant Communities and Habitat Information:

Host Plants Present:

Nectar Plants Present: Eric. canth., Dich. can., Helian., Gynpt., Thun. par., Er. cici, Cal. wacera, Phlox, Vanilla, Bho. canth., Sol. can., Let. scop., L. can., Pan. can., Gynpt., P. canth., Sol. can., Thun. par., Melan. can., L. can., P. can., Chamaec. can., Helian., Clay. can., Mm. can., Tidy tips, Cam. can., Cal. can.

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Mts 70, 75, 77 Survey Segment _____
 Surveyor UK Date 14-May-10 Survey Week Number 3
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------------|-------------|
| Start 0900 | 0 | clear patchy overcast drizzle shower | 1-3 | 61 (Air-68) |
| 1056 | 1 | clear patchy overcast drizzle shower | 1-3 gusts up to 7 | 79 (Air-79) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1511 | 25 | clear patchy overcast drizzle shower | 5-7 gusts up to 11 | 85 (Air-81) |

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

| Butterfly Species | Count (Total) | Hill-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | 1 | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabii</i> (Gabb's Checkerspot) | 1 | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiana</i> (Mourning Cloak) | 1 | | <i>Apodemia marmo</i> (Marmor Metalmark) | Many | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 1 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | Many | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurhytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 1 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 1 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | 1 | | Becker's white | | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | White sp. | | |
| Lycaenidae (Hairstreaks) | | | Ch. Sister | 1 | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | Marine Blue | 11 | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | Paintry Sulphur | 1 | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | Many | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor NK

Segment # Maps 70, 75, 77

Date: 14-May-10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Colinaria - Flowering & scattered within sunny area (Map 70 - Ed. La Postolle)
Col. rig. - beg. to sprout

Flowering
Nectar Plants Present: Camissonia, Er. cil., Las. cal., Phac. cil., Crippt., Mustard, Lup. big., Pecton, Gailia,
Esch. cal., Cart. affinis, Sel. cal., Bro. woti, Baby Blue Eyes, Clay-puf., Yuc. whip., Lot. scop., Yuc. schiz,
Peony, Anisochloa, Min. big., Phlox, Ephedra, Woolly Lupine, Phac. par., Oenactis, Whispering Bell,
Mim. ana., Park Lotus, Astragalus, Plagio., Wild Pear, Woolly Blue Curls, Dich. cup., Clematis, Soli-
par., Kechilla, Senecio, Tidy-tips, Sam. mex., Penstemon,

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location _____ Survey Segment Mass 71 X-74
 Surveyor Laure Gorman Date 5-12-10 Survey Week Number 3
 Survey Partner(s) John Green
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--|-----------------------------------|----------|
| Start 0930 | 0% | (clear) patchy overcast drizzle shower | 0-3 mph | 66.5°F |
| 1210 | 0% | (clear) patchy overcast drizzle shower | 6-10 gusts to 14 mph hilltop near | 68.9°F |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1500 | 3% | (clear) patchy overcast drizzle shower | 3-7 mph | 73.8°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-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|---------------------|--------------|--|---------------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marira</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | II | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | III III III III III | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | I | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | I | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | III III III | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | II | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>Vanessa sp.</i> | II | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>California white</i> | I | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia angustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | III III III III III | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor LG + JG

Segment # Maps 71-74

Date: 12-May-10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Collinsia ~~sp.~~
concolor

Nectar Plants Present: erodium sp., mustard, cryptantha sp., Plagiobothrys sp., Lupinus sp.
AMS MEN, PEN HET, Commissionia sp., ERI, CONF LAS CAL, LOT SCO, GIL CAP, AGO RIT
CA POPPY, MIN AUR, CIR OCC, PHA PAR, PEN GEN, PITA ~~CIR~~ CIR, SOL PAR, YUC WHI
CHIA, CEON REN, LAS FOL

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location CNF/SDG Quino Survey Segment Pg. 71 → 71
 Surveyor _____ Date 2 May 10 Survey Week Number 3
 Survey Partner(s) Louise Gorman
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 07:40 | 0 | clear patchy overcast drizzle shower | 0-4 | 56.0 |
| 12:10 | trace | clear patchy overcast drizzle shower | 0-3 | 71.1 |
| 13:45 | 1 | clear patchy overcast drizzle shower | 0-5 | 73.3 |
| 15:10 | 1 | clear patchy overcast drizzle shower | 3-7 | 73.8 |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | 1 | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | 35 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) 1 | 1 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) 1, III | 4 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | Blue sp. #1 | 6 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | Orangetip sp. #1 | 5 | |
| Lycaenidae (Hairstreaks) | | | Duskywing sp. #1 | 2 | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | Swallowtail sp. 1 | 1 | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | White sp. 1 | 1 | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) II | 2 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopteryx lygdamus</i> (Southern Blue) 1 | 1 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) #1 #2 #3 | 14 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor John Green

Segment # Pg 74-71

Date: 12 May 10

Comments: CORA SPTO ATFL BCSP WSJA BHGR CATH TUVU HOFI CAIT PBSE
BEWR RWBL ACWO SAGS -Pg. 72
MOBO CAQU

COHA Flyover @ E. end survey area pg. 74

Cottontail, Coyote,
W. Whiplash, W.F. Liz

Plant Communities and Habitat Information: Chaparral

Host Plants Present: Coleman

Nectar Plants Present: Plagio/Cryptantha X2, Lotus annual, Deerweed, Pectocarya Larip, Ceanothus
Blue Cur's, Red Man, Clematis, Calceolaria, Mimulus annual, Nightshade, Eriophyllum, Chamaeneris,
Sua cupi X2, Monardella, Erigeron, Broomrape X2, Miner's Lettuce, Whipspring Bell's, Paintbrush (red),
Dandelion X2, Godbould's, Scarlet Bugle, Penstemon sp. rubris, Logia, Elderberry,
Lupine X4, Gilia X3, Golden Yucca, Miner's Lettuce.

Quino Sighting Date: GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location MAPS HWY 76 Survey Segment MAPS MS-002-004
 Surveyor M. WILCOX Date 21 MAY 10 Survey Week Number 4
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 1020 | 0 | clear patchy overcast drizzle shower | 0-2 mph | 60°F |
| 1215 | 0 | clear patchy overcast drizzle shower | 1-3 mph | 75°F |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1530 | ~5 | clear patchy overcast drizzle shower | 2-5 mph | 77°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-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marira</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | 2 (1) | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | 2 | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 1 | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 10 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | 1 | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 3 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | WHITE SP. | 2 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | BLUE SP. | 7 | |
| Lycaenidae (Hairstreaks) | | | CA SISTER | 1 | |
| <i>Atalides halesus</i> (Great Purple Hairstreak) | | | VANESSA SP. | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucoopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 11 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor MW

Segment # Maps 2-4

Date: 21 May 10

| Comments: | |
|-----------|------------------------|
| BIRDS | MAMMAL |
| ACWO | SPERMOPHILUS BEECHLEYI |
| AMCR | SYLVILAGUS AUD. |
| RTWA | |
| TUVU | |
| LEGO | |
| HOWR | |
| CORA | |
| WEST | |
| BCSD | HELPS |
| CATO | PHRYNOSOMA COR. |
| CAQU | SCELOP OCC. |
| CATH | SCELOP ORC. |
| BHGR | UTA STANS |
| CASP | |
| BUOR | |

Plant Communities and Habitat Information:

Host Plants Present: PLANTAGO, CASTILLEJA

Nectar Plants Present: SAME AS PREVIOUS VISIT

Quino Sighting Date: GPS Location:

| Photographs Taken: | | |
|--------------------|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location MARS S-8, HWY 76 Survey Segment _____
 Surveyor MCGAUGH Date 5-15-76 Survey Week Number 4
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|--------------|----------|
| Start 0930 | 0 | clear | patchy | overcast | drizzle | shower | 0-8 | 60° F |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop 1430 | 0 | clear | patchy | overcast | drizzle | shower | | 50° 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-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marira</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | 1 | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | 1 | | <i>Apodemia mormo</i> (Mormon Metalmark) | 1 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | 1 | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 1 | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 11 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | 2 | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis fureralis</i> (Funereal Duskywing) | 1 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | | | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | blues | 5 | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | <i>F. p. n. 16 sp</i> | 1 | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 1 | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopteryx hydamus</i> (Southern Blue) | 2 | | | | |
| <i>Icaricia acmon</i> (Acmon Blue) | 6 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Quino Checkerspot General Form

Adult Survey

Location Maps 9-10 Survey Segment _____
 Surveyor NK Date 26 May 10 Survey Week Number 4
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|---|------------------|---------------|
| Start 1114 | 2 | clear patchy overcast drizzle shower | 4-8 (gusts = 13) | 73 (Air - 70) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1316 | 5 | clear patchy overcast drizzle shower | 4-6 (gusts = 13) | 80 (Air - 77) |

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

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

Surveyor NK

Segment # Maps 9-10

Date: 26-May-10

Comments: Although winds are variable, butterfly activity remains ^{reasonably} relatively detectable
- Acron mating

Plant Communities and Habitat Information:

Host Plants Present: Cast. ex. (going to seed + still flowering)

Flowering Nectar Plants Present: Camissonia, Er. ar., Crypt. Mustard, Clarkia, Lup. bic., Chorizanthe, Eriog. conf., Penstemon, Sidalcea, Phac. vis., Sam. mex., Man. vulgare, Delphinium, Trifolium, Phlox, Ach. cap., Sol. par., Gilia, Min. brass., Las. cal., Clay, ^{Perf.} ~~perg.~~, Wild Pear, Calo. spl., Flaggia, Ground Pink, Yarrow, P-apple weed, Red Maids

Quino Sighting Date: GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location SAN DIEGO Co (LAKE HENSLEY AREA) Survey Segment MAP 9+10
 Surveyor COB CATHMAN Date 26 May 2010 Survey Week Number FOUR
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|----------------------|----------|---|----------------|------------|
| Start <u>8:30 AM</u> | <u>0</u> | <u>clear</u> patchy overcast drizzle shower | <u>2-4 mph</u> | <u>70°</u> |
| <u>11:30 AM</u> | <u>0</u> | clear patchy overcast drizzle shower | <u>4-8</u> | <u>72°</u> |
| <u>12:30 PM</u> | <u>0</u> | clear patchy overcast drizzle shower | <u>3-9</u> | <u>73°</u> |
| <u>1:30 PM</u> | <u>0</u> | <u>clear</u> patchy overcast drizzle shower | <u>3-9</u> | <u>75°</u> |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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) | Hill-topping |
|--|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marix</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | <u>11</u> | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | <u>5</u> | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | <u>1</u> | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopterus ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>L. vartholomae</i> | <u>25</u> | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>L. garra</i> | <u>54</u> | |
| | | | <i>J. norticola</i> | <u>3</u> | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | <u>11</u> | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | <u>11</u> | | | | |

Surveyor GREG CARTMAN

Segment # MP 940

Date: 26 Aug 10

Comments: - ~~WAS~~ CLOSED CANOPY
- VISITED ALONG RD'S WITH HOST
- NO ~~BEHAVIOR~~ OBSERVED

- *P. cornis* near Castilleja (host)
- *L. verticillata* abundant near (Ramer)
- *L. goodsoni* (not be seen *B. elongata*)

Plant Communities and Habitat Information: ROPER TO SURVEY ONE

Host Plants Present: CASTILLEJA - ALONG ALONG ALONG RD'S
CORRYLAMITRIS - ALONG ALONG RD. (2118166)
- ~~LOTTUS~~

Nectar Plants Present: YARROW, B. fasciculata, BASSICA, BLUE BLOSS

Quino Sighting Date: GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Maps 28-36 Survey Segment _____
 Surveyor NK Date 20 May 10 Survey Week Number 4
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|----------------|-------------|
| Start 0910 | 0 | clear patchy overcast drizzle shower | 2-5 | 67 (Air-67) |
| 1104 | 0 | clear patchy overcast drizzle shower | 1-4 (gusts=9) | 70 (Air-69) |
| 1254 | 0 | clear patchy overcast drizzle shower | 4-7 (gusts=10) | 85 (Air-81) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1450 | 0 | clear patchy overcast drizzle shower | 3-6 (gusts=10) | 79 (Air-79) |

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

| Butterfly Species | Count (Total) | Hill-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marira</i> (Marine Blue) | | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | 1 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | 1 | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 1 | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | Many | MT III |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | 2 | MT |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 111 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 411 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | Common Sootywing | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | CA. Sister | 1 | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | Many | MT III | | | |
| <i>Celastrina ladon</i> (Echo Blue) | 21 | MT III | | | |

Surveyor NK

Segment # Maps 25, -36

Date: ²⁰20 May 10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Callisida @ top of steep slope & creek crossing

Cor. rig. - beg. to sprout

Plantago - drying up, beg to go to seed, but mostly green lush

Cast. ex. - flowering & going to seed; lower elev. plants almost entirely to seed

Flowering Nectar Plants Present: Paperbark, Milkweed, Sid. gal., Meli. indica, Noddy Blue Curls, Crypt., Lup. bic., Esch. cal., Mustard, Camissonia, Er. cir., Phac. pan, lot's scop., Eri. conch, Penstemon, Trifolium, Yucca whipplei, Clematis, Cast. off., Baby Blue Eyes, Clarkia, Mim. aur., Phac. cir., Lonicera, Sam. mex, Wild Pea, Phlox, Sys. bel., Dich. cap, Delphinium, Mim. big, Anagallis, Gnaph. bic., Cirsium, Plagi. , Erigeron, Stinging Lupine, Leon. leuco, Sidalcea, Mim. brew, Sal. colu., Gilia, Yucca schottii, Ad. fasc., Helianthemum, Calce. sp., man. vulgare, Pect. , Red Maids, Helianthus,

Quino Sighting Date: GPS Location:

| | | |
|--------------------|-----|-----|
| Photographs Taken: | | |
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Rob Fletcher Canyon Peak Survey Segment Maps 30-33
 Surveyor Lauree Gorman Date 5/20/16 Survey Week Number 4
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|-------------------|-----------|---|----------------|--------------|
| Start <u>0920</u> | <u>0%</u> | <u>clear</u> patchy overcast drizzle shower | <u>3-5 mph</u> | <u>72°F</u> |
| <u>1045</u> | <u>0%</u> | <u>clear</u> patchy overcast drizzle shower | <u>5-9</u> | <u>68.6°</u> |
| <u>1200</u> | <u>0%</u> | <u>clear</u> patchy overcast drizzle shower | <u>4-6</u> | <u>74.5°</u> |
| <u>1300</u> | <u>0%</u> | <u>clear</u> patchy overcast drizzle shower | <u>6-8</u> | <u>68.8°</u> |
| <u>1330</u> | <u>0%</u> | <u>clear</u> patchy overcast drizzle shower | <u>6-8</u> | <u>70°F</u> |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

Habitat onsite (circle as applicable) hilltops, ridges, rock outcrops, open soil, 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) | | | <i>Leptotes marina</i> (Marine Blue) | 1 | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 1 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | 11 | 1 |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funealis</i> (Funereal Duskywing) | 1 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mourning Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <u>Blue sp.</u> | 1111 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <u>Vanessa sp.</u> | 1 | 1 |
| Lycenidae (Hairstreaks) | | | <u>Skipper sp.</u> | 1 | 1 |
| <i>Attilides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | 1 | 1 | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 111 | 1 | | | |
| <i>Celastrina ladon</i> (Echo Blue) | 111 | 111 | | | |

Maps 30-33

Surveyor

Rob Retcher

Segment #

Coyambala Peak

Date:

5/20/60

Comments:

Plant Communities and Habitat Information:

Fire recovering chaparral

Host Plants Present:

COTR16

Nectar Plants Present:

Eradiun sp, Cryptantha sp, Pseudotsuga sp, Camissonia sp,

MITCAL SALSON MELGOLA CLELIG PHADAR NEMMEN
MATMAC EPILON MIMCLE LOTSEL PENSPER LINDL
HESLMI TRIPAR SISREL HELSLO AMSMEN LIN FLO
LUPHIC NEAFOL CEALON DILLAP LUPREL trifolium sp, Lomatium sp

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Maps 40-44 Survey Segment _____
 Surveyor N. Marshall Date 5/21/10 Survey Week Number 4
 Survey Partner(s) N. Kimball
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--|-------------------|----------|
| Start 0903 | 0 | (clear) patchy overcast drizzle shower | 0 - 5 mph | 64.5 |
| | | clear patchy overcast drizzle shower | | |
| 11:37 | 0 | (clear) patchy overcast drizzle shower | 8 - 10 (gusts 12) | 74 |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 13:37 | 0 | (clear) patchy overcast drizzle shower | 5 - 9 mph | 81 |

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

Surveyor NM

Segment # Steps 40-44

Date: 21-May-10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Plantago ovata, CAEX

Nectar Plants Present: LAVE, ERCI, Crypt. sp., HIEN, Camiss. sp., ERFA, PHPA, DICA, LUKI, HYGL, ERCO, CACA, TRLA, LOSC, ADEA, SIGA, MIAU, PESP, SOPA, MIBR, YUWH, MICL, MIFR, MUBI, Eriastrum sp., MAVU, PECE, CASP, GNBI, ERBO, CAAF, PHCI, Gilia sp., Vinca sp., ANAR, CLPU, NAHA, CHPR

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Maps 40-44 Survey Segment _____
 Surveyor NK Date 21-May-10 Survey Week Number 4
 Survey Partner(s) NM
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|-------------------|---------------|
| Start 0855 | 0 | clear patchy overcast drizzle shower | 1-4 | 69 (Air - 67) |
| 1137 | 0 | clear patchy overcast drizzle shower | 8-10 (gusts = 12) | 74 (Air - 70) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1337 | 0 | clear patchy overcast drizzle shower | 5-9 | 81 (Air - 71) |

Habitat onsite (circle as applicable): hills, 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) | | | <i>Leptotes marixa</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | 1 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 1 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopterus erictorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 1 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 1 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>Marine Blue</i> | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Ch. Suster</i> | 1 | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atalides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopteryx hydamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor NK

Segment # Maps 41-44

Date: 21-May-10

Comments: Grabbis in large #'s (newly emerged, fattened/ad, ♂, ♀, gravid ♀, mating, nectaring)

Plant Communities and Habitat Information:

Host Plants Present: cond. nig. @ top of hill adj. to F8

Evening Nectar Plants Present: Mustard, Phlox, Chalk, lotz soap, Eris. conf., Yac. whip, Er. cico, Eriogonum, Lup. bic., Crypt., Dich. cap., Sidalcea, P. apple wood, Sig. lat., Woolly, Blue curls, Ad. fasc., Sol. passy, Galia, Comatium, P. agis, M. vulgaris,

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Buckner Springs / Jacumba (Golden Acorn Casino exit) Survey Segment Maps 71-74
 Surveyor Laurie Gorman Date 5-19-10 Survey Week Number 4
 Survey Partner(s) Nicole Kimball
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--|--------------|----------|
| Start 0900 | 0% | (clear) patchy overcast drizzle shower | 0-4 mph | 64.4°F |
| 1142 | 0% | (clear) patchy overcast drizzle shower | 1-3 mph | 88.0°F |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1419 | 0% | (clear) patchy overcast drizzle shower | 3-8 mph | 86.0°F |

Habitat onsite (circle as applicable): hiltops, 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) | | | <i>Leptotes marira</i> (Marine Blue) | III | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | IIII | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | IIII | IIII |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | IIII |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | IIII | IIII |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pteris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | I | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | IIII | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>California tortoiseshell</i> | I | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Vanessa sp.</i> | II | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | | | | | |
| <i>Gallophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopteryx lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | II IIIII | IIII | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Quino Checkerspot General Form

Adult Survey

Location MMS 49 + 50 Survey Segment _____
 Surveyor N. Moorhead, L. Gorman Date 4/30/2010 Survey Week Number 4
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|----------------|--------------|----------|
| Start 11:45 | ~20 | clear | patchy | overcast | drizzle shower | 0-1 mph | 68.7 |
| 12:35 | ~15 | clear | patchy | overcast | drizzle shower | 6-11 mph | 64.0 |
| | | clear | patchy | overcast | drizzle shower | | |
| | | clear | patchy | overcast | drizzle shower | | |
| | | clear | patchy | overcast | drizzle shower | | |
| Stop 13:45 | ~15 | clear | patchy | overcast | drizzle shower | 1-6 mph | 70.3 |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | 1 | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 111 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 1 | 111 |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 11 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 1 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | 1 | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>Erynnis</i> sp. | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | UnId'd Blue | 1 | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Allides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | 11 | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor NM & LG

Segment # Map 49 + 50

Date: 30-Apr-10

Comments:

Plant Communities and Habitat Information:

Chamise / Southern Mixed Chaparral

Host Plants Present:

Castilleja exertsa

~~Casti~~

Lupinus sp.

Keckiella ant.

Nectar Plants Present:

Gutierrezia sp., Dichelostemma, Calystegia (W. bindweed),
Eradium cicutaerium, Allium sp., Lotus sp., Hirschfeldia incana, Scarlet pimpernell,
Eriodyction crassifolium, Marah macrocarpa, Cryptantha sp., Lasthenia californica, Yucca whipplei,
Ceanothus leucodermis, Melilotus indica, Phacelia parryi, Rhamnus crocea, Trichostema parishii,
Lathyrus vestitus, Solanum parishii, Scrophularia cal., Rhus ovata, Lupinus bicolor

Quino Sighting

Salvia columbiana

Date: Silene gallica

GPS Location:

Lotus scoparius

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Barret Lake N. - Map 51 Survey Segment TL625
 Surveyor Bob Plummer - CG1 Date 4/30/16 Survey Week Number _____
 Survey Partner(s) Nicole Urbahn - AML
 Total Acres: _____ Portion Surveyed: 50105 571433 - 571440 Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | clear | patchy | overcast | drizzle | shower | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|--------------|-----------------|
| Start 1018 | 25% | clear | patchy | overcast | drizzle | shower | 2-3 mph | 58.5° (in CLOW) |
| 1045 | 25 | clear | patchy | overcast | drizzle | shower | 3-4 | 60.3° |
| 1145 | 20 | clear | patchy | overcast | drizzle | shower | 4-6 | 63.4° |
| 1215 | 20 | clear | patchy | overcast | drizzle | shower | 4-6 | 66° |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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

Surveyor Robb Ketcher

Segment #

Map 51
TL 625

Date: 4/30/10

Comments: Plenty of host plants scattered in small to medium patches along alignment. All PLAEER observed is long senesced. Majority of CASEXE observed is setting seed and rapidly drying out. All LOTLUB is just beginning to come up.

There are some decent patches of DCB habitat but it appears the season is well advanced in this area with dry to during host plants and lots of non-native grasses & weeds.

Plant Communities and Habitat Information: Fire recovering CSS/Chap mix at CLOW segments in drainages. Some open ERICAS scrub mixed in. Some open habitat but majority of alignment only AR is open.

Host Plants Present: CASEXE, PLAEER, LOTLUB

Nectar Plants Present: Erodium sp., Cynopteryx sp., PLUGIO HYMENS SP., MARISSONIA SP., HIRINL, DICLAD, SIDMAL, GILANG, CASEXE, LUPBIK, LOYSTR, SOLXAN, LOTSCO, KRICAN, SALLOL, MIMBRE, PHAPAR, ERICRA, GNA CAL, CHUOVA, PHABRA, KEKANT, CEALEU, TRICAN, LASAL, MATMAL, CALMAL

Quino Sighting —

Date:

GPS Location:

Photographs Taken: 2

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Surveyor LG, NM

Segment # Map 52, 43-44

Date: 06-May-10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Castilleja exserta

Nectar Plants Present: Lupinus bicolor, Lasthenia cal., "Tidy-tips", Erodium cicutarium, Erodium botrys, Sisymbrium sp., Delphinium parryi, Salvia columbariae, Yucca whipplei, Dichelostemma capitatum, Phacelia cicut., Clarkia parryi, Cryptantha sp., Melilotus indica, Lotus sp., Penstemon centranthi, Camissonia sp., Heliotropium curras, Plagiobothrys sp., Peony, Rock pea, Lupinus sp., Scarlet pimpernell, Silene gallica, Gnaphalium sp., Claytonia perfoliata, Sanicula sp., Sidalcea malvaeflora

Quino Sighting Phacelia parryi Date: Amisackia mesa GPS Location: Castilleja (red), Trichostema parryi

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Dataset
page 2 of 2

Adult Survey

Location _____ Survey Segment Map 52
 Surveyor Laurie Gorman Date 5-6-10 Survey Week Number 4
 Survey Partner(s) Nate Moorbatch
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|-------------------|-----------|---|----------------|-------------|
| Start <u>0832</u> | <u>0%</u> | <u>clear</u> patchy overcast drizzle shower | <u>0-1 mph</u> | <u>65°F</u> |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop <u>1430</u> | <u>0%</u> | <u>clear</u> patchy overcast drizzle shower | <u>0-6 mph</u> | <u>80°F</u> |

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

Quino Checkerspot General Form

Adult Survey

Location Map 54 Survey Segment _____
 Surveyor NR Date 30-Apr-12 Survey Week Number 4
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--|--------------|-------------|
| Start 1025 | 10 | (clear) patchy overcast drizzle shower | 2-5 | 61 (Apr-58) |
| | | clear patchy overcast drizzle shower | | 69 Apr |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1311 | 15 | (clear) patchy overcast drizzle shower | 4-6 | 77 (Apr-58) |

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

Quino Checkerspot General Form

Adult Survey

Location Buckner Springs / Jacumba (Golden Acorn Casino exit) Survey Segment Maps 71-74
 Surveyor Laurie Gorman Date 5-19-10 Survey Week Number 4
 Survey Partner(s) Nicole Kimball
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|----------|
| Start 0900 | 0% | clear patchy overcast drizzle shower | 0-4 mph | 64.4°F |
| 1142 | 0% | clear patchy overcast drizzle shower | 1-3 mph | 88.0°F |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1419 | 0% | clear patchy overcast drizzle shower | 3-8 mph | 86.0°F |

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

Surveyor L. Gorman

Segment # Maps 71-74

Date: 5-19-10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Collinsia concolor

Nectar Plants Present: PEN SPE cryptantha sp., Erodium sp., Camissonia sp., LOT SCO, mustard, ERI CON, TRI PAR, AMS MEN, GIL CAP, LAS CAL, PHA DIS, ~~CAI~~ CAI, PENCEN, PHA PAR, Mimulus sp., ANA ARV, YUC WHI, SOL XAN, LUP BIC, DIC CHR, PHA BRA, Platybotrys sp., YUC SICH

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location BUCKMAN SPRINGS Survey Segment MAPS US-075-069
 Surveyor M. WILCOX Date 17 MAY 10 Survey Week Number 4
 Survey Partner(s) NICOLE KUMBAL
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|--------------|-----------------|
| Start 1030 | 100 | clear | patchy | overcast | drizzle | shower | 1-3.5 | 62°F-70°F (END) |
| 1200 | 100 | clear | patchy | overcast | drizzle | shower | 2-4 | 77°F |
| 1355 | 80 | clear | patchy | overcast | drizzle | shower | 2-4 | 81°F |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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

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

Quino Checkerspot General Form

Adult Survey

Location Map 74-71 Survey Segment _____
 Surveyor NR Date 17-May-10 Survey Week Number 4
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|------------|
| Start 0818 | 0 | clear patchy overcast drizzle shower | 0-1 | 67 (Air-6) |
| 1142 | 0 | clear patchy overcast drizzle shower | 1-3 | 88 (Air-6) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1419 | 0 | clear patchy overcast drizzle shower | 3-8 | 88.86 |

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

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

Surveyor NK Segment # Map 74-71 Date: 19 May -10

Comments: Chippewal - Desert Transition; Dom. = Ad. fasc. w/ Saeto, red shank, Art. tril., Quercus, Cylindropuntia, Yucca, Ephedra, Eriogonum, Clematis

Plant Communities and Habitat Information:

Host Plants Present: Collinsia, Con. rig. beg. to sprout, Art. coul. is flowering (very few & in bud)

Flowering Nectar Plants Present: Woolly Blue Chalk, Er. cin., Crypt., Penstemon, Lot. scapy, Camissonia, Senecio, Er. conf., wild Pear, Plagine, Woolly Lupine, Gilia, Mustard, Plecto, Anisindia, Phac. cin., Yuc. schuy. sub. column, Phlox, Tan. cal., Pelphinium, Mim. big, Clay. perf., Sol. par., Phac. par., Mas. macro., Yuc. adsp., Tidy-Tips, Sam. mex., Lup. bic., Mimulus, Rock Lotus, Chaenactis, Cirsium, Eriogonum, Min. brass., Chorizanthe, Ephedra, Whispering Bells, Cast. affinis, Can. leuco.

Quino Sighting Date: _____ GPS Location: _____

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

800
706
~~600~~
6207
977
763
5694

Quino Checkerspot General Form

Adult Survey

Location Map 77-70 Survey Segment _____
 Surveyor NK Date 17-May-10 Survey Week Number 4
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|-------------------|------------|-------|--------|-----------------|---------|--------|--------------|--------------------|
| Start <u>1022</u> | <u>100</u> | clear | patchy | <u>overcast</u> | drizzle | shower | <u>0-2</u> | <u>76 (Air-NK)</u> |
| <u>1159</u> | <u>100</u> | clear | patchy | <u>overcast</u> | drizzle | shower | <u>4-7</u> | <u>83 (Air-70)</u> |
| | | 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 <u>1355</u> | <u>85</u> | clear | patchy | <u>overcast</u> | drizzle | shower | <u>2-4</u> | <u>81 (Air-73)</u> |

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

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

Surveyor NK

Segment # Map 77-70

Date: 17-May10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Alluvia, Ants courtin, Lehong Rd near pole 44/65

Flowering Nectar Plants Present: Penstemon, Er. aci., Camissonia, Cast. affinis, Yuc. whip., Crypt., Mustard, Plecto, Eriogonum, Dich. cap., Poppy, Lat. cal., Lup. bic., Sam. mex., Wild pea, Lomatium, Yuc. schi., Gilia, Allium, Tidy-tips, Phacelia, Astragalus, Clarkia, Sidalcea, Woolly Blue Curls, Amaranthus, Lutz Scap. Cirsium, Ephedra, Eriogonum, Mim. aur., Phac. par., Clay, Red, Eriogonum, Chamaecrista, Sed. californica, Chrysanthemum, Ad. fasc., Mim. brawleyi, Baby Blue Eyes, Rock Lotus, Whispering Bells, Peony, Woolly Lupines

Phac. brae.

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

* CLOUD COVER / TEMP.
 PRESENTED SURVEYS

Quino Checkerspot General Form

Adult Survey

Location WEATHERED COT Lake Mendocino Survey Segment _____
 Surveyor GREEN MCGAUGH Date 5-17-10 Survey Week Number _____
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|------------------|---------|--------------------------------------|--------------|----------|
| Start | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| 10:50 → 11:30 AM | 100% * | clear patchy overcast drizzle shower | 3-8 MPH | 61-64°F |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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

Quino Checkerspot General Form

Adult Survey

Location CNF - Hiway 76 Survey Segment Maps 2-4
 Surveyor Steve Myers/Nathan Moorhatch Date 26 May 10 Survey Week Number 5
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|------------------|----------|
| Start 1050 | 0 | clear | patchy | overcast | drizzle | shower | 1-4 | 63° |
| 1200 | 0 | clear | patchy | overcast | drizzle | shower | 2-5 | 65° |
| 1315 | 0 | clear | patchy | overcast | drizzle | shower | 2-6 | 70° |
| 1400 | <10 | clear | patchy | overcast | drizzle | shower | 4-8 | 69° |
| 1440 | <10 | clear | patchy | overcast | drizzle | shower | 5-12 gusts to 16 | 68° |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marixa</i> (Marine Blue) | | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | 1 | | <i>Apodemia mormo</i> (Mormon Metalmark) | 2 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | 5 | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | 1 | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 4 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | 6 | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | 1 | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 2 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 4 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>California Dogface</i> | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Dainty Sulphur</i> | 1 | |
| Lycaenidae (Hairstreaks) | | | <i>white sp.</i> | 4 | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | <i>blue sp.</i> | 10 | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | <i>Erynnis sp.</i> | 2 | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 49 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor Myers/Moorhatch

Segment # Maps 2-5

Date: 26 May 10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Castilleja exserta

Nectar Plants Present: ERBO, HIIN, Rose clover, LOAR, CLPF, ERCO, PMPA, CLPU, CASP, SAAP, DICA, LUHI, ADEA, YUWA, MIAU, GNBI, ESCA, NIGL, ASCA, SIGA, LAVE, LUBI, SYBE, RASA, PLLA, VIUI, SALUME, Madia sp., PHCI, MAVU, SIMA, MEAL, LOSE, CRCA, Camissonia sp., MIBR

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Surveyor NK

Segment # Maps 9-10

Date: 28 May 10

Comments: mostly sunny, minimal cloud cover; began survey @ 60° ground temp, as winds were 24mph & 2 metalmarks were obs. while taking temp. reading

Plant Communities and Habitat Information:

Host Plants Present: Cacti, ex. - flowering & go to seed
Collinsia

Flowering
Nectar Plants Present: End. conif, Cole. spl., Mustard, Cuscut, Tribolium, Eriogonum, Er. ar., Phlox, Delphinium, Clarkia, Camissonia, Penstemon, Mim. am., Phac. cis, Chorizanthe, lot. scop., Phac. par, Lonicera, Dich. cap., Sal. wherry, Gnaph. bic, Clay. pef, Mim. brai, Sam. mex, Lup. big, P-apple weed, Sida/cea, Mat vulg, Lesingia, Ground Pink, Tarrow. lilia, Cean. leuca, Bac. sali, Tamarix, Ana. am., Chamaesyce, Las. cal,

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Maps 28-36 Survey Segment _____
 Surveyor N. Moorhatch, N. Kimball Date 5/25/10 Survey Week Number 5
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--|--------------|----------|
| Start 10:21 | 0 | (clear) patchy overcast drizzle shower | 0-4 | 60° |
| | | clear patchy overcast drizzle shower | | |
| 12:23 | 0 | (clear) patchy overcast drizzle shower | 2-4 | 66° |
| | 40 | clear (patchy) overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 15:39 | 40 | clear (patchy) overcast drizzle shower | 0-2 | 77° |

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

Surveyor NM, NK

Segment # Maps 28-36

Date: 25 May 10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Plantago pat., Cordylanthus rigidus, Collinsia concolor, Collinsia heterophylla, Castilleja exserta, Plantago ovata, Antirrhinum coulter.

Nectar Plants Present: Pectocarya sp. CAAF, AMME, LUEX, ASCA, CHSU, LUBE, HIIN, ESCA, ERCI, YAWH, TRLA, ADFA, Crypt. sp., PEHE, PHPA, HYGL, PHCI, ERCO, LOSC, CLEM, Camissonia sp., TRWI, MIAU, CASP, ANAR, Plagio. sp., CELE, SYBE, CLPU, Lonicera, NEME, MEIN, BASA, DICA, Vinca sp., Chap. Pea, Eriog. Fasci., SAMEX, ERBO, Lamatium sp., ROCA, CLDE, MIPA, LIPA, Eriastrum sp., HESC, MIFR, MIBR, TAAR, ACMI, SILA, LUHI, SIGA, PECE, Sanicula sp.

Quino Sighting SIMA, CH Date: PLLA GPS Location: GAAN, SACO

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Cuyamaca Peak Survey Segment Maps 30-33
 Surveyor Laura Gorman Date 5-25-10 Survey Week Number 5
 Survey Partner(s) Greg Chatman
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | clear | patchy | overcast | drizzle | shower | Wind (range) | Temp (F) |
|--------------|---------|---------|--------|----------|---------|--------|--------------|----------|
| Start 0950 | 0% | (clear) | patchy | overcast | drizzle | shower | 1-3 mph | 60°F |
| 1136 | 0% | (clear) | patchy | overcast | drizzle | shower | 2-5 mph | 62°F |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop 1402 | 0% | (clear) | patchy | overcast | drizzle | shower | | 62°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-topping | Butterfly Species | Count (Total) | Hill-topping |
|--|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes mariza</i> (Marine Blue) | 1 | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | 1 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopterus ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | | | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | | | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | III | IIII | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | III | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | IIII | | | | |

Laurel Gordon

Surveyor

Greg Chapman

Segment # MAPS 30-33

Date: 5-25-10

Comments:

- VOU STARD SECTION
- VISITED SIGNAL RANGER + HULLING
- NO BOUNDARY COLLECTED SPECIES OBSERVED
- *I. angustimanus* not observed
- *C. argutus* - using *Crematogaster* abundant

Plant Communities and Habitat Information:

REFER TO SURVEY ONE

Host Plants Present:

COLEA LAETICOLA
 - MAPS HAVE BEEN UPDATED.

Nectar Plants Present:

mustard, *erodium* sp., *Camissonia* sp., ... see prior data sheet from last week

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location VUEJAS Survey Segment MAPS 37-38
 Surveyor M. WILCOX Date 13 MAY 10 Survey Week Number 5
 Survey Partner(s) C. McGAUGH
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|---------|---------|---------|----------|---------|--------|--------------|----------|
| Start 1040 | 10 | clear | (patch) | overcast | drizzle | shower | 0-3mph | 71°F |
| 1445 | 0 | (clear) | patchy | overcast | drizzle | shower | 0-3mph | 80°F |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes mariza</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | • (1) | | <i>Apodemia mormo</i> (Mormon Metalmark) | • (1) | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | • (2) | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | • (1) | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | • (2) | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | • (5) | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | BLUE SP. | • (1) | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | ERYNNIS SP. | • (4) | |
| Lycaenidae (Hairstreaks) | | | WHITE SP. | (1) | |
| <i>Atalides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | • (1) | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | • (8) | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor MW + CM

Segment # Maps 37-38

Date: 13 May 10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: CASTILLEJA EX.

Nectar Plants Present: SAME AS PREVIOUS VISIT.

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Plexanso Survey Segment Map 39, 40, 41
 Surveyor Tom Plecher Date 5/25/10 Survey Week Number 5
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: TL 6025 Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|--------------|----------|
| Start 1000 | 0% | clear | patchy | overcast | drizzle | shower | 2-4 mph | 65.6°F |
| 1200 | 0% | clear | patchy | overcast | drizzle | shower | 2-4 | 66.9 |
| 1400 | 0% | clear | patchy | overcast | drizzle | shower | 2-4 | 66° |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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) | Hill-topping |
|---|---------------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | 11 | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | 11/11/11 | ✓ | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | | 11 |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 1 | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurymedon</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 11 | 1 |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erymnis funeralis</i> (Funereal Duskywing) | | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erymnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erymnis propertius</i> (Propertius Duskywing) | | | | | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | | | |
| Lycenidae (Hairstreaks) | | | | | |
| <i>Allides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia angustinus</i> (Western Brown Elfin) | 1 | 1 | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopteryx hydamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 11/11/11 | 11 | | | |
| <i>Celastrina ladon</i> (Echo Blue) | 11/11/11 | 11 | | | |

Surveyor

Rob Fletcher

Segment #

MAPS 39, 40, 41
TL

Date:

5/25/16

Comments:

Plant Communities and Habitat Information:

Mixed Chamise Chaparral + Fire recovering SAC

Host Plants Present:

COCKLE, PLABBE, CAS EXE

Nectar Plants Present:

Erodium sp., Cryptantha sp., Pargobolus sp., Camissonia sp.
HIRINC, HBSWHI, LUPBIC, CAS EXE, ERICON, UDOLIN, CROSTA, TRIPAR, SAMMEX,
DILCAP, LOTSLD, CLAPAC, MIMBRE, ADEPAS, PHACIC, ALHAE, MIMUE, DENZIG,
ERIFAS, LUPHIR, PHAPAR, CALSPL, HELGRIN, LOTARG, PEUSPE, MIMPRE, PENLEN,
LACAL, LOTSTR, PLABBE, SALAPI, CHIART, MIMAIR, GNACAL, CEALU, SISBEL,
SALLOL, SIDMAL, GILCAP, SOLKAN, GILANG, Tribulus sp.

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location JAPATUL VALLEY Survey Segment MAPS 42, 43, 44
 Surveyor ROB FLETCHER Date 5/26/10 Survey Week Number 5
 Survey Partner(s) MAYA MAZON
 Total Acres: _____ Portion Surveyed: 72625 Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--|--------------|----------|
| Start 1000 | 0 | (clear) patchy overcast drizzle shower | 1-3 | 66 |
| 1225 | 0 | (clear) patchy overcast drizzle shower | 2-4 | 70 |
| 1311 | 0 | (clear) patchy overcast drizzle shower | 2-4 | 74 |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed-Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | 1 | 1 | <i>Apodemia mormo</i> (Mormon Metalmark) | 3 | 1 |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | 2 | 2 |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | 8 | 0 |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | 11 | 5 |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 1 | 0 |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 4 | 2 | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | | | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | | | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Athides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elfin) | 2 | 2 | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopteryx lygdanius</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 9 | 9 | | | |
| <i>Celastrina ladon</i> (Echo Blue) | 2 | 1 | | | |

1. Kudo
Munewer

Maps 42-44

Surveyor ROB FLETCHER Segment # TL 625 Date: 5/26/10

Comments: NECTAR PLANTS - UDOLYN, CAMPHR, HELIOPOLYCHUS, LOTUS, ADONIS, ACTINIL, HELIOPOLYCHUS, MAR MAC, GILIA SPP., AMIS SPP, PHAPAR, MIMANR, CAMPIS, ERGOL, ~~ERGOL~~ EUCRYPTA SPP., PHADIS, CHL PAR, CHAGLA, HOSTA, ERIDEN, MURVIL, ~~ERGOL~~ YUCWAH, CALMAC, ASTRAGALUS SPP., CALMAC, TRKIL, ASUCAL, CASFOL

(rebetick)

Plant Communities and Habitat Information:

OAK WOODLAND WITHIN URBAN LANDSCAPE, ~~AD~~ AND DISTURBED GRASSLAND

Host Plants Present: CHESTLETTA EXSEKTA, CORDALANTHUS RIGIDUS,

Nectar Plants Present: BLUE DICKS, DELPHINIUM HERBACEUM, ERODIUM CICUTARIUM, BRASSICA NIGRA, ~~BRASSICA NIGRA~~ SPLENDENS, ERODIUM BOTRYS, CRYPTANTHA, CLARKIA DELICATA, CLARKIA PURPURA, GNAPHALIUM CALIFORNICUM, INACELIA CICUTARIUM, CALSPL, HYPOLA, ERICON, TRIPAR, RAFCAL, CIROXI, LOTSTR, PINDSP, SILGAR, ANAARY, DAUPAS, SOLXAM, MIMBRE, COREFRU, NAVHAM, INDIAN PAWTBROST

Quino Sighting Date: GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location MAPS 49-50 Survey Segment _____
 Surveyor MCGAUGH Date 5-6-10 Survey Week Number 5
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|------------------|---------|--------------------------------------|--------------|----------|
| Start 0925 | 0 | clear patchy overcast drizzle shower | | |
| AM 10, 0820 50°F | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1130 | 0 | clear patchy overcast drizzle shower | | |

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

Quino Checkerspot General Form

Adult Survey

Location 13200 W-52 Survey Segment _____
 Surveyor NK Date 10/12/03 Survey Week Number 5 #5/14-15/03
 Survey Partner(s) RF
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | clear | patchy | overcast | drizzle | shower | Wind (range) | Temp (F) |
|--------------|---------|-------|--------|----------|---------|--------|--------------|-------------|
| Start | 40 | clear | patchy | overcast | drizzle | shower | 3-5 | 78 |
| | 30 | clear | patchy | overcast | drizzle | shower | 4-6 | 73 |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | 30 | clear | patchy | overcast | drizzle | shower | 3-5 | 70 (Air-68) |

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

Surveyor NK, RJ

Segment # W-52 Date: 10/15/05

Comments: Relatively easy to find, but some birds were present to observe

along stream bed

95% going to seed

Plant Communities and Habitat Information:

Host Plants Present: Quinoa

Nectar Plants Present: Catalpa, Passiflora, Ipomoea, Solanum, Mimosa, Crotalaria, Sesbania, Phaseolus, Lycopodium, etc.

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

51
Mapo 9450, W-52

Adult Survey

Location Rob Pleather Lyons Valley Survey Segment TL625
 Surveyor Lyons Valley Date 4/10/10 Survey Week Number 6
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: Polex 571453-571491 AND Dist. Line by Barrett Honor Camp Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|---|--------------|----------|
| Start 1115 | 40% | clear <u>patchy</u> overcast drizzle shower | 4-8 mph | 64.5° |
| 1215 | 50% | clear <u>patchy</u> overcast drizzle shower | 6-9 | 64° |
| 1315 | 30% | clear <u>patchy</u> overcast drizzle shower | 4-8 | 74.9° |
| 1415 | 30% | clear <u>patchy</u> overcast drizzle shower | 5-10 | 77.7° |
| 1430 | 25% | <u>clear</u> patchy overcast drizzle shower | 6-8 | 68.0° |
| | | clear patchy overcast drizzle shower | | |
| Stop | | clear patchy overcast drizzle shower | | |

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) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marira</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | 11 | 2 |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | 9 | 4 |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 13 | 5 |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | 2 | - | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 2 | 2 | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | | | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | | | |
| Lycaenidae (Hairstreaks) | | | | | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | | | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 25+ | 10 | | | |
| <i>Celasbina ladon</i> (Echo Blue) | | | | | |

Surveyor

Rob Anderson

Segment #

TL 625

Date:

5/10/10

Maps ⁵¹ 49, 50, W-52

Comments:

Plant Communities and Habitat Information:

Host Plants Present:

CASEXE, COORIG, PLAREE

Nectar Plants Present:

~~MARSA, VERVE, VELADE~~ Erodium sp. Cryptantha sp. Physalanthus sp.
Chamissonia sp. HIRINC, DILLAP, LAFUR, EUCON, LIPBIL, EUCOA, LOTSO, SIDMAI
GILANG, CASEXE, TRIWIL, LOTSTR, HYPOLA, MIMBRE, KEKANT, SILKAN, CALSPL
SALLAL, CAMCAL, HESLWI, PENSPE, UROVA, CALMAC, LIPHIZ, PHAPAC
PHAGGA, GNACAL, TILAN, ALHAE, ADEPAS, AMSMEN, MACMAC, SAMMEX, LASLAL
LAPLA, PENCEN, MICAL, ESCAL, CHA ATEI, UROLIN
ANT NUT

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Map 51, 41 Survey Segment _____
 Surveyor ME NK Date 06-May-10 Survey Week Number 5 of # 3 Map 41
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|--------------|-------------|
| Start 0840 | 0 | clear patchy overcast drizzle shower | 2-1 | 60 (Air-61) |
| 0951 | 0 | clear patchy overcast drizzle shower | 3-5 | 75 (Air-75) |
| 1243 | 0 | clear patchy overcast drizzle shower | 3-6 | 80 (Air-75) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1325 | 0 | clear patchy overcast drizzle shower | 3-6 | 76 (Air-71) |

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

Surveyor NK

Segment # Map 51, 41

Date: 06-May-10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Cast. sp. (going to seed); almost all P. or. going to seed, sm. % have green stems;
Cord. rig few + far between; Ant. count small patch

Flowering Nectar Plants Present: Eri. cross, Clay perf., Siddura, Lup. bi., Mim. brass, Galium, Dich. cap. Yuc. whip,
Erid. cor. f., Mustard Sil. gal., Camissonia, Sol. per, Keckilla, Crypt., Penstemon, Sol. colum., Er. cic.,
Cot. scop., Wild Pea, Stinging lupine, Cal. macis, P. per. or., Chamaecrista, Lup. tracy, Helianthemum, Gnaph. bic.,
Car. doli, Helianthus, Lomatium, Waddy Blue Cents, Yuc. schri., Allium, F. plant, Ad. fasc., Whispering Bells,
Lantana, Anziskia, C. lili, Plagi., Pectocarpus

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Bassett Lake Survey Segment TL Map 54
 Surveyor Robert [unclear] Date 5/22/10 Survey Week Number #5
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: 7005 571466 ~ 571454 Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | | | | | Wind (range) | Temp (F) |
|--------------|----------|-------|--------|----------|---------|--------|--------------|----------|
| Start 0830 | 67% | clear | patchy | overcast | drizzle | shower | 0-2 mph | 65.7°F |
| 1000 | 59% haze | clear | patchy | overcast | drizzle | shower | 2-4 mph | 74.3°F |
| 1100 | 59% haze | clear | patchy | overcast | drizzle | shower | 2-4 mph | 72.4°F |
| 1245 | 52% haze | clear | patchy | overcast | drizzle | shower | 3-6 mph | 76.9°F |
| 1330 | 52% haze | clear | patchy | overcast | drizzle | shower | 3-6 mph | 77.2°F |
| | | clear | patchy | overcast | drizzle | shower | | |
| Stop | | clear | patchy | overcast | drizzle | shower | | |

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

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

Map 54

Surveyor Rob Fletcher

Segment # JL 675

Date: 5/6/10

Comments: Fire following Chaparral. Before fire in 2007 was VERY dense, now semi-open. Lots of fire followers present. Some different open patches on or near knittops w/ host plants present. Parts very BS & rocky

Plant Communities and Habitat Information: Fire recovering Chaparral

Host Plants Present: CASEYE, COCTIG, PLABRE, COLCON

Nectar Plants Present: ERODIUM sp., LINDANTHUS sp., PLESIODONTIA sp., COMISSOLIA sp., HILIC, GNACAL, PENSPE, CALMAC, DICCAP, LOTARG, TRIWIL, ERICON, MALDEN, SOLXAN, SALCOL, PHAPAR, MIMBRE, PHAGRA, LOTSTR, LOTSCO, HELWHI, LUPHAR, ALLHAE, LAYPLA, COLCON, CASEYE, SIDMAL, MATMAC, ERICCA, DAMCAL, KHILOVA, TRILAN, DICCHIZ, HELSOD, HELGRA, BILANG, CALHLB, ALLPEN, SISBEL, ESHCAL, LUPBIL

Quino Sighting NO

Date:

GPS Location:

Photographs Taken: NO

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

40531-4478-79

Quino Checkerspot General Form

Adult Survey

Location Maps 70-77 Survey Segment _____
 Surveyor NK Date 24-May-10 Survey Week Number 5
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|---|-------------------|-------------------------|
| Start 1030 | 1 | <u>clear</u> patchy overcast drizzle shower | 0-2 | 69 (Air-69) (quits = ?) |
| 1158 | 0 | <u>clear</u> patchy overcast drizzle shower | 2-6 (quits = 8) | 78 (Air-69) |
| 1310 | 0 | <u>clear</u> patchy overcast drizzle shower | 6-8 (quits = 13) | 79 (Air-69) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1602 | 0 | <u>clear</u> patchy overcast drizzle shower | 2-10 (quits = 14) | 78 (Air-70) |

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

| Butterfly Species | Count (Total) | Hill-topping | Butterfly Species | Count (Total) | Hill-topping |
|---|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | | |
| <i>Euphydras editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydras chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | 1 | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | 1 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | 1 | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | many | many |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopetes ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 1 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 111 | | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | 1 | | White sp. | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | Gorgan Copper | 1 | |
| Lycaenidae (Hairstreaks) | | | Dainty Sulphur | 1 | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | Marid Blue | 1 | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | | | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | | | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | many | many | | | |
| <i>Celastrina ladon</i> (Echo Blue) | 10 | | | | |

Surveyor NK

Segment # Maps 70-77

Date: 24-May-16

Comments:

Majority of early annuals gone to seed
-Map 75: cattle moved through area as ev. of fresh tracks, scat, & urine

Plant Communities and Habitat Information:

Host Plants Present: Collinsia - beg. to go to seed

Nectar Plants Present: Er. cic., Mustard, Camissonia, Lar. caly, Lup. bic., Lup., Gilia, Erig. conf.,
Cast. affinis, Phac. cia, Woolly Lupine, Astragalus, Yuc. whip, Chorizanthe, Yuc. Aschy, Sam. near., Lot. scop,
Whispering Bells, Esch. cal., Phlox, Penst., Cirsium, Ephedra, Chaenactis, Sal. edum, Clay. poppy, Kriegerium,
Phac. par., Ad. fac., Mim. brew., Delphinium, Poppy, Keckiella, Penstemon, calv. splen., Holly Blue Curls,
Clarkia, Sol. par., Dich. cap., Rock Lotus, Scutellaria, Comatium, Allium, Tidy-Tips, Sidalcea

Flowering

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Maps 71-74 Survey Segment _____
 Surveyor NK Date 30-May-10 Survey Week Number 5
 Survey Partner(s) M. Heath
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|--------------------------------------|------------------|---------------|
| Start 0800 | 0 | clear patchy overcast drizzle shower | 4-9 (gusts = 11) | 73 (Air - 71) |
| 1005 | 0 | clear patchy overcast drizzle shower | 5-8 (gusts = 12) | 76 (Air - 76) |
| 1210 | 0 | clear patchy overcast drizzle shower | 1-2 (no gusts) | 88 (Air - 87) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1345 | 0 | clear patchy overcast drizzle shower | 3-5 (no gusts) | 86 (Air - 84) |

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

Surveyor NK & MH

Segment # Maps 71-74

Date: 30-May-10

Comments:

Plant Communities and Habitat Information:

Host Plants Present: Collinsia Flowering + going to seed

Flowering Nectar Plants Present: Lot scop., Penstemon, Decto, Mustard, Er. ci., Crypts, Camissonia, Erio, conf., Gilia, Phac. par, Chorizanthe, Woolly Blue Curbs, Woolly luphe, Las. cal, Sol. calmar, Phac. ci., Phlox, Delphinium, Sol. par, Yuc. Schiz, Sam. mex, Mim. mex, Astragalus, Eriogonum, Datura, Lup. bic., Amaranthia, Mim. mex, Rock Lotus, Chaenactis, Esch. cal, Poppy, Whiskering Bells, Phac. brac., Lonicera, Cast. affinis, Dich. cap.

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |

Quino Checkerspot General Form

Adult Survey

Location Maps 76-74 CNF Survey Segment _____
 Surveyor M. Heath Date 3/30/2010 Survey Week Number 5
 Survey Partner(s) _____
 Total Acres: _____ Portion Surveyed: _____ Elevation: Max _____ Min _____

| Time (24 hr) | % Cloud | Sky | Wind (range) | Temp (F) |
|--------------|---------|---|------------------|-------------|
| Start 0800 | 0 | clear patchy overcast drizzle shower | 4-9 (quats = 11) | 73 (Air-71) |
| 1005 | 0 | clear patchy overcast drizzle shower | 5-8 (quats = 12) | 76 (Air-76) |
| 1210 | 0 | clear patchy overcast drizzle shower | 1-2 (no quats) | 88 (Air-87) |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| | | clear patchy overcast drizzle shower | | |
| Stop 1345 | 0 | clear patchy overcast drizzle shower | 3-5 (no quats) | 86 (Air-84) |

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) | Hill-topping |
|--|---------------|--------------|--|---------------|--------------|
| Nymphalidae (Brush Footed Butterflies) | | | <i>Leptotes marina</i> (Marine Blue) | 1 | |
| <i>Euphydryas editha quino</i> (Quino Checkerspot) | | | <i>Philotes sonorensis</i> (Sonoran Blue) | | |
| <i>Euphydryas chalcedona</i> (Chalcedon Checkerspot) | | | <i>Plebejus melissa</i> (Melissa Blue) | | |
| <i>Charidryas gabbii</i> (Gabb's Checkerspot) | | | <i>Everes amyntula</i> (Western Tailed Blue) | | |
| <i>Phycoides mylitta</i> (Mylitta Crescent) | | | <i>Brephidium exilis</i> (Western Pygmy-Blue) | | |
| <i>Thessalia leanira</i> (Leanira Checkerspot) | | | Riodinidae (Metalmarks) | | |
| <i>Nymphalis antiopa</i> (Mourning Cloak) | | | <i>Apodemia mormo</i> (Mormon Metalmark) | 16 | |
| <i>Basilarchia lorquini</i> (Lorquin's Admiral) | | | Papilionidae (Swallowtails) | | |
| <i>Junonia coenia</i> (Common Buckeye) | | | <i>Papilio eurymedon</i> (Pale Swallowtail) | | |
| <i>Vanessa annabella</i> (West Coast Lady) | | | <i>Papilio rutulus</i> (Western Tiger Swallowtail) | | |
| <i>Vanessa atalanta</i> (Red Admiral) | | | <i>Papilio zelicaon</i> (Anise Swallowtail) | | |
| <i>Vanessa cardui</i> (Painted Lady) | | | Pieridae (Whites and Orangetips) | | |
| <i>Vanessa virginiensis</i> (American Lady) | | | <i>Anthocharis cethura</i> (Desert Orangetip) | | |
| Danaidae | | | <i>Anthocharis sara</i> (Sara's Orangetip) | | |
| <i>Danaus gilippus</i> (Queen) | | | <i>Pieris rapae</i> (Cabbage White) | | |
| <i>Danaus plexippus</i> (Monarch) | | | <i>Pontia protodice</i> (Checkered White) | 1 | |
| Hesperiidae | | | <i>Colias eurytheme</i> (Orange Sulphur) | | |
| <i>Heliopterus ericetorum</i> (Northern White-Skipper) | | | <i>Colias harfordii</i> (Harford's Sulphur) | 8 | |
| <i>Hylephila phyleus</i> (Fiery Skipper) | | | <i>Eurema nicippe</i> (Sleepy Orange) | | |
| <i>Pyrgus albescens</i> (White Checkered-Skipper) | | | Satyridae (Satyrids) | | |
| <i>Erynnis funeralis</i> (Funereal Duskywing) | 5 | } | <i>Coenonympha californica</i> (Common California Ringlet) | | |
| <i>Erynnis tristis</i> (Mournful Duskywing) | | | OTHERS: | | |
| <i>Erynnis propertius</i> (Propertius Duskywing) | | | <i>Catip S. sp.</i> | 1 | |
| <i>Ochlodes agricola</i> (Rural Skipper) | | | <i>Copper sp.</i> | 17 | |
| Lycaenidae (Hairstreaks) | | | <i>Greenish hairstreak</i> | 7 | |
| <i>Atlides halesus</i> (Great Purple Hairstreak) | | | <i>Sandwich sp.</i> | 4 | |
| <i>Incisalia augustinus</i> (Western Brown Elf) | | | <i>White sp.</i> | 5 | |
| <i>Callophrys perplexa</i> (Perplexing Hairstreak) | | | <i>Blue sp.</i> | 55 | |
| <i>Strymon melinus</i> (Gray Hairstreak) | | | <i>lots</i> | | |
| <i>Glaucopsyche lygdamus</i> (Southern Blue) | | | | | |
| <i>Icarcia acmon</i> (Acmon Blue) | 16 | | | | |
| <i>Celastrina ladon</i> (Echo Blue) | | | | | |

Surveyor M. Heath

Segment # Maps 71-74

Date: 5/30/2010

Comments:

Plant Communities and Habitat Information:

Host Plants Present:

Nectar Plants Present:

Erodium Tansey mustard, Fiddleneck, Downweed, Penstemon
Wash. blue curl, Golden yucca, Beard's Yucca, Lupines, Popcorns, Curissonia,
Citrus, Chaparral oak, monkey flowers, Coachella status, Phacelia, Desert dandelion
Chia, Hollyleaf cholla, Lotus, Calif Poppy, Red maids, Brall Galia, Golden bells
Elderberry, Tacumbia milkvetch, white pinonshon, Purdy's Phacelia, Indian Paintbrush

Quino Sighting

Date:

GPS Location:

Photographs Taken:

| | | |
|-----|-----|-----|
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7. | 8. | 9. |
| 10. | 11. | 12. |



APPENDIX G – QCB BIOLOGISTS' SIGNATURE PAGES



QUINO CHECKERSPOT BUTTERFLY
(*Euphydryas editha quino*) 45-DAY FOCUSED SURVEY
REPORT FOR THE SAN DIEGO GAS & ELECTRIC
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SAN DIEGO COUNTY, CALIFORNIA

Prepared for:

SAN DIEGO GAS & ELECTRIC
8315 Century Park Court, CP21G
San Diego, Ca 92123-1548
(858) 637-3708

Prepared by:

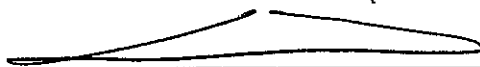
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September 2010

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David King

NAME (PLEASE PRINT)



SIGNATURE

10/14/2010

DATE

5510 Sky Park Court, San Diego CA 92123

ADDRESS

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Melissa Busby

NAME (PLEASE PRINT)

Melissa Busby

SIGNATURE

10/13/10

DATE

9210 SKY PARK CT, STE 200, SAN DIEGO, CA 92123

ADDRESS

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Nathan T. Moorhatch
NAME (PLEASE PRINT)

Nathan T. Moorhatch
SIGNATURE

9/26/10
DATE

310 S. Jefferson St. Apt. 10A, Placentia CA 92870
ADDRESS

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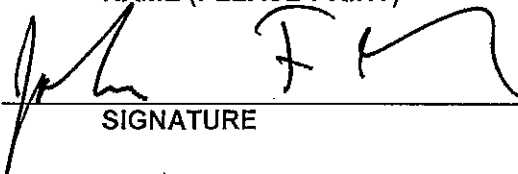
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John F. Green

NAME (PLEASE PRINT)



SIGNATURE

22 Sep 2010

DATE

3120 Chicago Ave., Ste 110, Riverside, CA 92507

ADDRESS

(AMEC)

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MICHAEL D. WILCOX
NAME (PLEASE PRINT)

SIGNATURE

23 SEPT 10
DATE

AMEC, 3120 CHICAGO AVE., SUITE 110, RIVERSIDE 92507
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Stephen J. Myers
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CHEET MCGAUGH

NAME (PLEASE PRINT)

Cheet McGaugh

SIGNATURE

Sept 23, 2010

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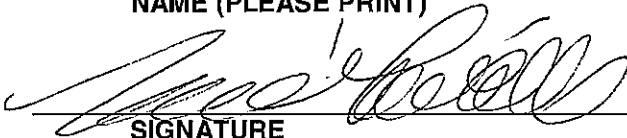
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Nicole Kimball

NAME (PLEASE PRINT)



SIGNATURE

06-Oct-10

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ANDREW FORDE
NAME (PLEASE PRINT)

SIGNATURE

09-23-2010
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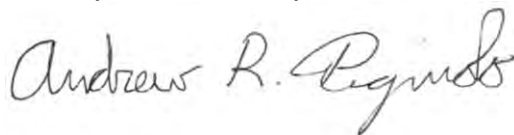
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Andrew R. Pigniolo

NAME (PLEASE PRINT)



SIGNATURE

9/24/10

DATE

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Laurie Gorman

NAME (PLEASE PRINT)



September 20, 2010

SIGNATURE

DATE

165 Paseo de las Delicias, Redondo Beach, CA 90277

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Adam H. Behle

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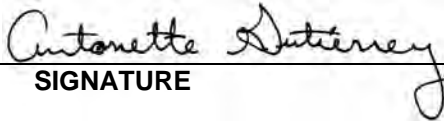
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Antonette T. Gutierrez

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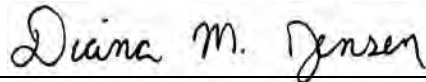
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Diana M. Jensen

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Kyle L. Ince

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Melissa A. Booker

NAME (PLEASE PRINT)

Melissa A Booker

SIGNATURE

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Stephen R. Rink

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Robert C. Fletcher Jr.

NAME (PLEASE PRINT)



SIGNATURE

9/23/10

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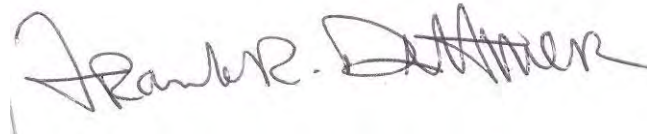
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Frank R. Dittmer

NAME (PLEASE PRINT)



SIGNATURE

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(*Euphydryas editha quino*) 45-DAY FOCUSED SURVEY
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CLEVELAND NATIONAL FOREST PROJECT,
SAN DIEGO COUNTY, CALIFORNIA**

Prepared for:

**SAN DIEGO GAS & ELECTRIC
8315 Century Park Court, CP21G
San Diego, Ca 92123-1548
(858) 637-3708**

Prepared by:

**CHAMBERS GROUP, INC.
9909 Huennekens Street
San Diego, California 92121
(858) 541-2800**

September 2010

The undersigned certify this report to be a complete and accurate account of the findings and conclusions of focused surveys for adult Quino Checkerspot Butterfly (*Euphydryas editha quino*) conducted during the spring of year 2010, within suitable QCB habitat on the San Diego Gas & Electric Cleveland National Forest Project right-of-way, San Diego County, California.

Greg Chatman

NAME (PLEASE PRINT)



SIGNATURE

October 10, 2010

DATE

5 Hutton Centre Drive, Suite 750, Santa Ana California 92707

ADDRESS

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Jane Higginson

NAME (PLEASE PRINT)

Jane Higginson

SIGNATURE

10/5/10

DATE

11433 Eucalyptus Hills Dr., Lakeside CA 92040

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Martha Heath, Ph.D

NAME (PLEASE PRINT)

Martha Heath

SIGNATURE

09/20/2010

DATE

2550 Grandview St, San Diego, CA 92110

ADDRESS

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Michael Klein

NAME (PLEASE PRINT)



SIGNATURE

October 1, 2010

DATE

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ADDRESS**

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Prepared by:

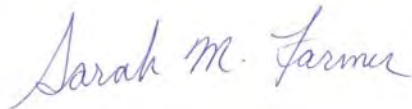
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Sarah M. Farmer

NAME (PLEASE PRINT)



SIGNATURE

9/24/10

DATE

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MAYA MAZON

NAME (PLEASE PRINT)



SIGNATURE

10/25/10

DATE

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