APPENDIX F – QCB GENERAL FORMS



Location <u>CNF</u> Surveyor <u>YNJEYS</u> /McGary Survey Partner(s)	Green Date	Survey Segment Maps 3 Apr 10 Survey Weel	5 001 – 003 k Number <u>1</u>
Total Acres: Portion Surv	veyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	Sky Wind (range) Temp (F)
Start 0940	D	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
		clear patchy overcast drizzle shower
Stop 1330	D	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)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta(Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)	<u> </u>		Apodemia mormo (Mormon Metalmark)		
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)	1		Papilio eurymedon(Pale Swallowtail)	-	
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		L
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		<u> </u>
Vanessa cardui (Painted Lady)	3		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae		1	Anthocharis sara (Sara's Orangetip)	2	
Danaus gilippus (Queen)		1	Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)	1		Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)		<u> </u>	Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		<u> </u>
Pyrgus albescens (White Checkered-Skipper)	-	1	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	6		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Vanessa Sp.	2	
Ochlodes agricola(Rural Skipper)		1	blue.	2	
Lycaenidae (Hairstreaks)			<i>±rynnis</i>	2	
Atlides halesus (Great Purple Hairstreak)		-	Oranget ip	2	
Incisalia augustinus(Western Brown Elfin)		1	white	3	<u> </u>
Callophrys perplexa(Perplexing Hairstreak)	9				<u> </u>
Strymon melinus (Gray Hairstreak)					_
Glaucopsyche lygdamus(Southern Blue)	2				
Icarcia acmon (Acmon Blue)	2				
Celastrina ladon(Echo Blue)					

Surveyor Green Maps, 151,2+3 Date: 8 Apr 10 Comments: Extensive putches of Phontogo between 118031 and 118032. Also, Plantago along diff road near 118051. GPSed RCSP and Grance -throated Whiptail . Í Plant Communities and Habitat Information: Annual grossland, oak woodlands, "Deerweed Scrub" . Host Plants Present: Plantago electa Nectar Plants Present: Mary - Camissonia, Erodium, Phacelia, Lastheina **GPS Location:** Date: **Quino Sighting** Photographs Taken: 3. 2. 1. 6. 5٠ 4. 9. 8. 7٠ 12. 11. 10.

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Locatio	on <u>Pg5 MS-</u> or John	Creen	<u>15-WS</u>	Dat	St te 4-15	irvey : ~/0	Segment Sur	vey Week	073 web Number 1	70	11200	57
Survey	Partner(s)	5-16-8.51					041	, eg 1, 41-				
	Acres:	Portion Surv	eyed:			E!	evation: l	Max	Min			
T	ime (24.hr)	% Cloud		adag S	ky 👘	都長		Wind	l (range)	Te	mp (<i>F</i>)	
Start	1045	h194/444	clean " patchy			zzle	shower	2.2 GUG,	84 max	7	10	
	1410	11	clear patchy	v over	cast dri	zzle	shower	1.5	6.7	6,	7.1	
	1535	hazy	clear (patch)) over	cast dri	zzle	shower	0.7	2.0	70	1.8	
	10.0.0	diffuse	clear patchy	v (over	cast) dri	zzle	shower	3.3	7.2		3.4	
- 5194	10.10	011-50	clear patchy	<u> </u>		zzle	shower				<u>,, ,</u> ,	• ••
			clear patchy			zzle	shower			•••=••		
										-·		
Stop			clear patchy			zzle	shower	Landa Mar				
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	But a state of the But	terfly Species		Count (Total)	Hill-		en) Freese	Butterfly S	pecies 1		Count (Total)	1] (0
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	hydras editha quino		ot)					ensis (Sonoi				1
	hydras chalcedona (1				sa (Melissa			1	\square
	ridryas gabbii (Gab			-		<u> </u>			Tailed-Blue)		Í	
Phyc	coides mylitta (Mylit	ta Crescent)		-		Bre	phidium ex	ilis (Westerr	Pygmy-Blue)			
Thes	<i>salia leanira</i> (Leani	ra Checkerspot)				Riodi	nidae (Met	almarks)				
	phalis antiopa (Mou					Ap	odemia mor	<i>mo</i> (Mormo	n Metalmark)			
		archia lorquini (Lorquin's Admiral)					ionidae (Sw		·			<u> </u>
	onia coenia (Comm		-			1		edon (Pale S			<u> </u>	┢
	essa annabella (Wes					1			iger Swallowtai)		
	essa atalanta (Red I			17				on (Anise Sv				+
	essa cardui (Painted			3			·	and Orang				╢
	essa virginiensis (Al	merican Lauy)	·····	_					sert Orangetip)		3	+
Danaid								<i>ara</i> (Sara's (Cabbage Wh			<u> </u>	╞
	aus gilippus (Queen aus plexippus (Mon							ice (Checker				┼─
Hesper						Co	lias eurvthe	me (Orange	Sulphur)		<u> </u>	+
	iopetes ericetorum (Northern White-Sk	ipper)			1	· •	lii (Harford's	•			1
	ephila phyleus (Fier		<u> </u>			Eı	rema nicipj	oe (Sleepy O	range)			
Pyrg	gus albescens (Whit	e Checkered-Skipp	er)			Satyı	idae (Satyı	·ids)				
Eryn	mis funeralis (Funer	eal Duskywing)					oenonympha nglet)	ı californica	(Common Calif	ornia		
Eryn	<i>nis tristis</i> (Mournfu	1 Duskywing)					ERS:					+
	nis propertius (Prop)			N	nite s	Ą.			3	
Och	lodes agricola (Ruta	ll Skipper)			1		skymin	G-SP.			15	-
Lycaer	nidae (Hairstreaks)						anaptit				Ŧ	
	les halesus (Great P	·						1				
	salia augustinus (W			2								
	ophrys perplexa (Pe		k)	2	<u> </u>	ļ		<u></u>	<u> </u>		<u> </u>	\vdash
	mon melinus (Gray I			-	1	<u> </u>					<u> </u>	╞
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Icar	<i>cia acmon</i> (Acmon) <i>astrina ladon</i> (Echo	-	·	12	<u> </u>	+				<u> </u>	+	•

Surveyor N. Green Segment # Mups 4+5 Date: 4-15-10 Comments: Birds in field notes. RCSP & SSHA Mapped Plant Communities and Habitat Information: "Grassland, Oak woodland, USS, Chaparral (burned) Host Plants Present: Owl's Clover, Plantago Mapped Nectar Plants Present: MMY, McInding Lupines, Phacelias, Gold Rields, Cryptarthas, Plagio bothrys, Lotus, & many more in field notes Quino Sighting Date: **GPS Location:** Photographs Taken: 1. 2, 3. 4. 5٠ 6. 8. 7. 9. 10. 11. 12,

Location_MARS S-7	Survey Segment
Surveyor _C. MCGAUGH	Date 419-10 Survey Week Number
Survey Partner(s) / J.F. GREN	
Total Acres: Portion Surveyed;	Elevation: Max Min

Ti	ne (24 hr) 🔌	WCloud			sky 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 cut	
			clear	patchy	overcast	drizzle	shower	to 10mm/1+	
			clear	patchy	overcast	drizzle	shower	in such	
			clear	patchy	overcast	drizzle	shower		
Stop	¥ 1600	100%	clear	patchy <	overcast	drizzle	shower		680P

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

Nymphalidae (Brush Footed Butterflies) Laptotes marina (Marine Blue) Exphydras editha quino (Quino (Excerspot) Philotes somersis (Sonoran Blue) Exphydras editha quino (Quino (Excerspot) Plebejua malissa (Melissa Blue) Chardryas gabbii (Gabb's Checkerspot) Eversa samytuia (Western Tailed-Blue) Phycoides mylitta (Mylitta Crescent) Brephidum exilis (Western Tygny-Blue) Thessalla leantra (Leanira Checkerspot) Riodinidae (Merula marks) Nymphalia (Control Checkerspot) Riodinidae (Swallowtails) Jononia coenia (Common Buckeye) Papilion indice (Western Tiger Swallowtail) Jononia coenia (Common Buckeye) Papilio indicae (Western Tiger Swallowtail) Yamessa anabelia (West Coast Lady) Papilio indicae (Western Tiger Swallowtail) Yanessa cardini (Painted Lady) I Piericae (Whites and Orangetip) Yanessa cardini (Painted Lady) I Piericae (Whites and Crangetip) Yanessa virginiensis (American Lady) Anthocharis certhura (Coesert Orangetip) Danadas Mathocharis certhura (Coesert Orangetip) Jonanda gilippus (Queen) Pieris rape (Clabage White) Danaus gilippus (Queen) Pontia proiodae (Checkered White) Jonandas filippus (Queen) Coltas enrytheme (Orange Sulphur)	Butterfly Species	Count (Total)	topping	Butterfly Species	Count (Total)	Hill- topping
Etaphydras chalzedona (Chalcedon Checkerspot) Plebajus melissa (Melissa Blue) Charidryas gabbii (Gabb's Checkerspot) Everes amyntula (Western Tailed-Blue) Proportides mylita (Mylitta Crescent) Brephidium cetilis (Western Tygmy-Blue) Thessalia learina (Leanira Checkerspot) Riodinidae (Mattmarks) Pymphalia antopa (Mourning Cloak) Apodenia morma (Morrion Metalmark) Basilarchia lorquin's Admiral) Papilio autymedon (Pale Swallowtail) Junonia coenta (Common Buckeye) Papilio autymedon (Pale Swallowtail) Venessa annabella (West Coast Lady) Papilio ruluka (Western Tiger Swallowtail) Vanessa atalanta (Red Admiral) Papilio ruluka (Western Tiger Swallowtail) Vanessa atalanta (Red Admiral) Papilio ruluka (Western Tiger Swallowtail) Vanessa atalanta (Red Admiral) Papilio ruluka (Western Tiger Swallowtail) Vanessa atalanta (Red Admiral) Papilio ruluka (Coster Consectip) Vanessa virginiensis (American Lady) Anthocharis sara (Sara's Orangetip) Danauda Prior tapae (Chabage White) Danaus glippus (Queen) Pierts rapae (Chabage White) Danaus glippus (Queen) Pierts rapae (Chabage White) Helsperidae Colicas anytheme (Crange Sulphur) Helsperidae Colicas anytheme (Crange Sul	Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Charidryas gabbii (Gabb's Checkerspot) Everes amyntula (Western Tailed-Blue) Phycoides mylitta (Mylitta Crescent) Brephidium exits (Western Tailed-Blue) Thesaalia leanira (Leanira Checkerspot) Riodinidae (Metalmarks) Mymphalis antipor (Mounning Cloak) Apodemia mormo (Mormon Metalmark) Basilarchia lorgutini (Lorguin's Admiral) Papilionidae (Swallowtails) Junonia coenia (Common Buckeye) Papilio arusmedon (Pale Swallowtail) Vanessa annabella (West Coast Lady) Papilio arusmedon (Pale Swallowtail) Vanessa annabella (West Coast Lady) Papilio arusmedon (Pale Swallowtail) Vanessa annabella (West Coast Lady) Papilio arusmedon (Pale Swallowtail) Vanessa annabella (West Coast Lady) Papilio arusmedon (Pale Swallowtail) Vanessa annabella (West Coast Lady) Papilio arusmedon (Pale Swallowtail) Vanessa arustai (Red Admiral) Papilio arusmedon (Pale Swallowtail) Vanessa arustai (American Lady) Anthocharis certhura (Desert Orangetip) Danaidae Anthocharis certhura (Desert Orangetip) Danaus plexippus (Monarch) Pontia protolice (Checkered White) Heisperidae Colias eurytheme (Orange Sulphur) Heisperidae Colias androdii (Earford's Sulphur) Heispeptidae phyleus (Fiery Skipper)	Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Phycoides mylitta (Mylitta Crescent) Brephidium exilis (Western Pygmy-Blue) Thessalia leantra (Leanira Checkerspot) Riodinidae (Metalmarks) Mymphalis antiopa (Mourning Cloak) Apodemia mormo (Morron Metalmark) Bastlarchia lorquini (Lorquin's Admiral) Papilionidae (Swallowtails) Janonia coenta (Common Buckeye) Papilio urymedon (Pale Swallowtail) Vanessa annabella (West Coast Lady) Papilio rutulus (Western Tiger Swallowtail) Vanessa cardui (Painted Lady) Pieridae (Whites and Orangetips) Vanessa arus virginiensis (American Ledy) Anthocharis certhura (Doset Orangetip) Danaidae Anthocharis sara (Sara's Orangetip) Danaidae Pieris rapae (Cabage White) Danaus gilippus (Queen) Pieris rapae (Cabage White) Danaus gilippus (Monarch) Pontio protodice (Checkered White) Hesperidae Colias eurytheme (Orange Sulphur) Heliopetes ericetorum (Northern White-Skipper) Satyridae (Satyrids) Pyrgus albezars (White Checkerd-Skipper) Satyridae (Satyrids) Erymnis triatis (Mournfal Duskywing) Colias eurytheme (Conron California Colidoses gericola (Rural Skipper) Satyridae (Satyrids) Erymnis triatis (Mournfal Duskywing) Colonose gericola (Rural Skipper)	Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
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Vanessa atalanta (Red Admiral) Papilio zelicaon (Anise Svallowtail) Vanessa cardui (Painted Lady) I Vanessa virginiensis (American Ledy) Anthocharis cethura (Desert Orangetip) Danaidae Anthocharis cethura (Desert Orangetip) Danaidae Anthocharis sara (Sara's Orangetip) Danaus gilippus (Queen) Pieris rapae (Cabbage White) Danaus plexippus (Monarch) Pontia protodice (Checkered White) Hesperidae Colias eurytheme (Orange Sulphur) Heliopetes ericetorum (Northern White-Skipper) Colias harfordii (Harford's Sulphur) Hylephila phyleus (Fiery Skipper) Eurema nicippe (Sleey Orange) Pyrgus albescens (White Checkered-Skipper) Satyridae (Satyrids) Erynnis finneralis (Funereal Duskywing) '3 Colcodes agricola (Rural Skipper) UPC - O (* Sext[Mitthue") Ochlodes agricola (Rural Skipper) I Lycaenidae (Haristreaks) I Adides halesus (Great Purple Hairstreak) I Mitestalia eugustimus (Western Brown Elfin) I Callophrys perplexa (Penplexing Hairstreak) I Strymon mellnus (Gray Hairstreak) I Mides halesus (Great Purple Hairstreak) I	Junonia coenia (Common Buckeye)		<u> </u>	Papilio eurymedon (Pale Swallowtail)		
Vanessa cardui (Painted Lady) Pieridae (Whites and Orangetips) Vanessa virginiensis (American Lady) Anthocharis cethura (Desert Orangetip) Danaidae Anthocharis cethura (Desert Orangetip) Danaidae Anthocharis sara (Sara's Orangetip) Danais gilippus (Queen) Pieris rapae (Cabbage White) Danaus plexippus (Monarch) Pontia protodice (Checkered White) Hesperidae Colias eurytheme (Orange Sulphur) Heliopetes ericetorum (Northern White-Skipper) Colias harfordii (Harford's Sulphur) Hylephila phyleus (Fiery Skipper) Eurema nicippe (Sleepy Orange) Pyrgus albescens (White Checkered-Skipper) Satyridae (Satyrids) Erynnis frienalis (Funereal Duskywing) ''' Collodes agricola (Rural Skipper) Use _ Specifies Erynnis tristis (Mournful Duskywing) OTHERS: Ochlodes agricola (Rural Skipper) Use _ Specifies Alides halesus (Great Purple Hairstreak) I Alides halesus (Great Purple Hairstreak) I Callophrys perplexa (Perplexing Hairstreak) Stymon melinus (Gray Hairstreak) Glaucopsyche bydamus (Southern Blue) I	Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	1	
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Heliopetes ericetorum (Northern White-Skipper) Colias harfordii (Harford's Sulphur) 4 Hylephila phyleus (Fiery Skipper) Eurema nicippe (Sleepy Orange) 9 Pyrgus albescens (White Checkered-Skipper) Satyridae (Satyrida) 9 Erynnis funeralis (Funereal Duskywing) 3 Coenonympha californica (Common California Ringlet) Erynnis tristis (Mournful Duskywing) OTHERS: 9 Erynnis propertius (Propertius Duskywing) 0 9 Ochiodes agricola (Rural Skipper) 1 1 Atlides halesus (Great Purple Hairstreak) 1 1 Incisalia augustinus (Western Brown Elfin) 1 1 Callophrys perplexa (Perplexing Hairstreak) 5 1 Strymon melinus (Gray Hairstreak) 1 1	Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
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Erynnis propertius (Propertius Duskywing) Image: Space of the system	Erynnis funeralis (Funereal Duskywing)	Ś				
Ochlodes agricola (Rural Skipper) Blue of Seutham lue" Lycaenidae (Hairstreaks) Image: Seutham lue" Atlides halesus (Great Purple Hairstreak) Image: Seutham lue" Incisalia augustinus (Western Brown Elfin) Image: Seutham lue" Callophrys perplexa (Perplexing Hairstreak) Image: Strymon melinus (Gray Hairstreak) Strymon melinus (Gray Hairstreak) Image: Southern Blue)	Erynnis tristis (Mournful Duskywing)					
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Callophrys perplexa (Perplexing Hairstreak)	Atlides halesus (Great Purple Hairstreak)					
Strymon melinus (Gray Hairstreak)	Incisalia augustinus (Western Brown Elfin)					
Glaucopsyche lygdamus (Southern Blue)	Callophrys perplexa (Perplexing Hairstreak)					
	Strymon melinus (Gray Hairstreak)					
Icarcia acmon (Acmon Blue)	Glaucopsyche lygdamus (Southern Blue)	1			•	
	Icarcia acmon (Acmon Blue)	1		· · · · · · · · · · · · · · · · · · ·		
Celastrina ladon (Echo Blue)	Celastrina ladon (Echo Blue)	-				
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	8 A		
Surveyor	MIGNUGH	Segment # Segment Segm	Date:4~15~10
Comments:	surveyed forces a) ~ E	
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	exclude 097; 16	0.	
	warpural habilet	·	plantage oute clover
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Plant Commu	nities and Habitat Inforn		
	(cartal sape soub	· · · · · ·
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Host Plants Pr		lantage -085-2-086	scattered and clover
· · · · · · · · · · · · · · · · · · ·		18444 <u>6 663 × 1486</u> +	of citting Cherry Cherry
	<u> </u>		
Nectar Plants	Present: Abundan	; Larthenia, Cartellera	
· · · · · · · · · · · · · · · · · · ·			
🔲 Quino Sight	ting Ø D	Date: GPS Location	l:
Photographs Ta	aken		·
1.		2.	3.
4. 7.		5.	6. 9.
10.	· · · · · · · · · · · · · · · · · · ·	11.	9. 12.

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Location <u>Magnetic</u> Surveyor <u>Jf</u> Survey Partner(s)	P 12, 9, 10, sinoll vortunit SREEN, C MIGNUER	B Survey Segment Date 4.14-10 Survey Wee	k Number
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud -		Sky 🤇			Wind (range)	Temp (F)
Start 105 K	high this	clear) patchy	overcast	drizzle	shower	1.2 AV 26 MAK	62 '
(M) 12/2	<u> </u>	clear patchy	overcast	drizzle	shower	,	
		clear patchy	overcast	drizzle	shower	·	
12:30	Ц	clear) patchy	overcast	drizzle	shower		
(WAR5,910)	17	clear) patchy	overcast	drizzle	shower	2. SANG 4.1 MAX	6410
1700 (WAR)	£) ···	clear patchy	overcast	drizzle	shower	1.5 AVY 6-2 MAX	(3 7°
Stop 17ct (WA) 9		clear) patchy	overcast	drizzle	shower		_ \$ <u>9,8</u> °

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

-				
		Leptotes marina (Marine Blue)		
		Philotes sonorensis (Sonoran Blue)		
		Plebejus melissa (Melissa Blue)		
1		Everes amyntula (Western Tailed-Blue)		
		Brephidium exilis (Western Pygmy-Blue)		
		Riodinidae (Metalmarks)		
		Apodemia mormo (Mormon Metalmark)	2	
		Papilionidae (Swallowtails)		
		. Papilio eurymedon (Pale Swallowtail)		
		Papilio rutulus (Western Tiger Swallowtail)		
		Papilio zelicaon (Anise Swallowtail)		
+ 1		Pieridae (Whites and Orangetips)		
		Anthocharis cethura (Desert Orangetip)	1	
		Anthocharis sara (Sara's Orangetip) 4+	2	
		Pieris rapae (Cabbage White)		
		Pontia protodice (Checkered White)	1	
1		Colias eurytheme (Orange Sulphur)		
		Colias harfordii (Harford's Sulphur)		
		Eurema nicippe (Sleepy Orange)	2	
		Satyridae (Satyrids)		
+ 2		Coenonympha californica (Common California Ringlet)		
X20		OTHERS:		
Ī		Tortoiseshell P	2	
			1	
		hlve <0		
2	1	Erronus a AFRANIUS/ PORLINUS	3	-
		Collifornia Usertace	1	
		j		
		Duskyming SP.	3	
	†		·	
	· ·	Oronget Q - CD.		
		+ 1	Image: Severes amyntula (Western Tailed-Blue) Brephidium exilis (Western Pygmy-Blue) Riodinidae (Metalmarks) Apodemia mormo (Mormon Metalmark) Papilionidae (Swallowtails) Papilio eurymedon (Pale Swallowtail) Papilio rutulus (Western Tiger Swallowtail) Papilio zelicaon (Anise Swallowtail) Papilio zelicaon (Anise Swallowtail) Papilio zelicaon (Anise Swallowtail) Pieridae (Whites and Orangetips) Anthocharis cethura (Desert Orangetip) Image: Pontia protodice (Checkered White) Colias eurytheme (Orange Sulphur) Colias harfordii (Harford's Sulphur) Eurema nicippe (Sleepy Orange) Image: Protoise Shell P Image: Protoise Shell P Image: Protoise Shell P Image: Protoise Shell P Image: P	IEveres amyntula (Western Tailed-Blue)Brephidium exilis (Western Pygmy-Blue)Riodinidae (Metalmarks)Apodemia mormo (Mormon Metalmark)Papilionidae (Swallowtails)Papilionidae (Swallowtails)Papilio eurymedon (Pale Swallowtail)Papilio rutulus (Western Tiger Swallowtail)Papilio rutulus (Western Tiger Swallowtail)Papilio zelicaon (Anise Swallowtail)Papilio zelicaon (Checker Orangetip)1Pieris rapae (Cabbage White)1Portia protodice (Checkered White)1Colias eurytheme (Orange Sulphur)Colias harfordii (Harford's Sulphur)Eurema nicippe (Sleepy Orange)1Correonympha californica (Common California Ringlet)X02Evrymitis space112Evrymitis space2Evrymitis space12Evrymitis space112Evrymitis space11211221122112222211222 <tr< td=""></tr<>

Surveyor SURVEYED SUBSTATION, LINE TO HWY 79 (MAY 12) SURVEYED FIRE LD CAST WAT OF L HEARHAW (MAPS, 9, 10) MIGAUGH KOSONTH Comments: GREEN NOATH ISOLATED RUCE 115151; SURVEY AREA MAY DE EXTENDED TO 115187 - PRESENCE OF HADITAT - FOODLANT, NECTAR, OUT GOAL Plant Communities and Habitat Information: CHARAMAL, CAK WOOKAND, ERASSIOND/ COW HABITAT Host Plants Present: CACTILIEUS EVSENTA (OULS CLOVEL) MANY, ABUNDANT - ECCUFICLAS (LASTIFICIAL LUSIN'S, Nectar Plants Present: Quino Sighting NOT YET! **GPS Location:** Date: ' Photographs Taken: 1. 2. 3. 4. $5 \cdot$ 6. 8. 7. 9. 10. 12. 11.

Location ms 28, 29	Survey Segment
Survey Partner(s)KIS	le Sherry Date 4/14/10 Survey Week Number /
Total Acres: Portion Surveyed:	Elevation: Max Min

1	Time (24 hr)	% Cloud	Sky		Wind (range)	Temp (F)
.15	Start 1109			drizzle shower	1-4	56 c/ 53 gir
~7 ^L	<u> </u>	20% thin	clear patchy overcast	drizzle shower	0-4	656/ 61 air
-7 (-)	12. 40 creek	20%		drizzle shower	omp	766/7411
V .09	1340 pos	30 Thin	clear patchy overcast	drizzle shower	2-6	536/68
`ر کلو	1405 map 201	25 Thin	clear patchy overcast	drizzle shower	1-4	69/69
ĺ,	71600 New 102	80 thin	clear patchy overcast	drizzle shower	4-12 ave	68/57
5	Stop		clear patchy overcast	drizzle shower	bor	

Stop Clear pateny overcast di 1220 suore. Habitat-onsite (circle as applicable); killtops, ridges, tock 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)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	1		Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessal:a leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Niourning Cloak)			Apoaemiu mornio (Mormon Metnin uk)		
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		<u> </u>
Vanessa annabella(West Coast Lady)	1		Papilio rutulus (Western Tiger Swallowtail)	X	
Vanessa atalanta (Red Admirál)			Papilio zelicaon(Anise Swallowtail)		ļ
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		L
Danaidae	-		Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)	1	1	Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae	-		Colias eurytheme(Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)	-	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens(White CheckeredSkipper)			Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)	11				
Ochlodes agricola(Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus(Great Purple Hairstreak)					<u> </u>
Incisalia augustinus(Western Brown Elfin)		-		<u> </u>	
Callophrys perplexa (Perplexing Hairstreak)	-11/4	<u> </u>			
Strymon melinus (Gray Hairstreak)		· 			
Glaucopsyche lygdamus(Southern Blue)	111-				
Icarcia acmon (Acmon Blue)	V/				
Celastring ladon(Echo Blue)					<u> </u>

Segment # MS 26 28 + 29 Date: 4/14/10 Surveyor King / kmball BGGN2 mil list arcass the -12 M **Comments:** maliha SDAL of Pole Jist E. of trick for map MILL Mach (DSDHL @(yemi) 372130 Cady BRI = Surrowed from 11 10050 2085" and In To boulder creek Sen Meddel? RSFI n/ net on other side - started too cold, bu 3P 8 other Summ was about taky cound under profen conditions PF mol art long dom aren - 10tz of hel A SC. Mmml out sign Cherry company there, skippen for specific provision - smill dista pus cottinty HOWR ribution ling posses Brouch. Comme montain lion songetter Hoberit uccuss nos h I'm cha) mode wather like itself Bepuch sheet) 1430 South from He 372 113 SB Litan - chected to noth, company to scarge + actue to cross bayer I wretit Ph 372114 Corg Plant Communities and Habitat Information: 70% com my canothers & scrib only chanse chaparal hen stand ort Hili ٠. **Host Plants Present:** castiling exceeding - only set. Inde ź Nector Plants Present: loting personners/Lotas st Totas (sn. jellon) C. encodermis cempty tomat Essuitzia 041 Linnithes SP Bac. Sal cryptingly sop. Phoisbothing spp. Clamadore Peonson al Lomotium Claytonin Parp Ansikkun Hypochierys sp. Boby blue eyes 1 325 marts Sellin Erodim cic Lathyrns Vestitus Compressioning. no doto En Hila exerta March miro Lepidim sp. GPS Location: Date: **Quino Sighting** Lupinas St. the pros (ned pulle **Photographs Taken:** Rhus DV R. +- 69 3. 2. 1. 6. 5. 4. 8. 9. 7. . 12. 11. 10.

Location <u>Map 29</u> Surveyor <u>NK</u> Survey Partner(s) _____

 Map 29
 Survey Segment

 NK
 Date 14-Apr-10

 S)
 Survey Week Number

Total Acres: _____ Portion Surveyed: _____

Elevation: Max _____ Mi

_____Min _____

Time (24 hr)	% Cloud	Slov		Wind (range)	Temp (F)
Start 1409	25		drizzle shower	1-4	69 (An 69)
		clear patchy overcast c	drizzle shower		
		clear patchy overcast c	drizzle shower		
		clear patchy overcast c	rizzle shower		
		clear patchy overcast c	rizzle shower		
		clear patchy overcast c	trizzle shower		
Stop 200	O (thin)	clear patchy overcast c	trizzle shower	4-12	66 Section

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

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

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Surveyor	NN

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Plant Communities and Habi		and all its iland	
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Host Plants Present:			
Host Plants Present:			··
Host Plants Present:			
Host Plants Present:		Lenco, Var. sicip, Wild Fea, Er. ci, Clenatis	
Nectar Plants Present:	an the same of the	Lenco, Varinip, Wild Pag, Er. ci., Clenatis	
Nectar Plants Present:	an the second	Lenco, Var. sinp. Wild Tea, Er. ci., Clenatis	
Nectar Plants Present:	an a	Lenco., Var. nicip., Wild Noa, Er. c, Clematics	
Nectar Plants Present:			
Nectar Plants Present:	<u></u>	Lenço, Var. nicip., Wild Poa, Er. cd, Clenatis GPS Location:	
Nectar Plants Present:			
Nectar Plants Present:			· · · · · · · · · · · · · · · · · · ·
Nectar Plants Present:		GPS Location: 3.	
Nectar Plants Present: (Date:	GPS Location:	
Nectar Plants Present:	Date:	GPS Location: 3.	

Location Map 30)		nent <u>//</u>		· · · .
Surveyor <u>NK</u>		Date 16-Apr-12	Survey Week	Number	
Survey Partner(s)					
Total Acres:	Portion Surveyed:	Eleva	tion: Max	Min	

Time (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)
Start 1037	0		atchy o	vercast	drizzle	shower	0-3	60
		clear p	atchy o	vercast	drizzle	shower	2-5	66
		clear p	atchy o	vercast	drizzle	shower		
		clear p	atchy o	vercast	drizzle	shower		,
		clear p	atchy o	vercast	drizzle	shower		
		clear p	atchy o	vercast	drizzle	shower		
Stop 35		clear p	atchy o	vercast	drizzle	shower	4.5	1 (a) 12

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

Surveyor NK	Segment	# <u>Марзо</u>	Date: <u>/b- ppr-/2</u>
Comments: And Frank			
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Plant Communities and Habit	at Information:	Sur al no and the	and the second
Level to better the second			
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Heat Desta Descarte			
Host Plants Present:	<u></u>	······································	- <u> </u>
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			Carl Carlos Tanna
Nectar Plants Present: E. I		<u> </u>	
Geliandes i tra par	<u>alta - dalla - a - a - a</u>	The The Jar	
<u>ULUATING</u>	and the second		
Quino Sighting	Date:	GPS Locatio	n:
Photographs Taken:			
1.	2.		3. 6.
4.	5.		9.
7.			12.
10.	11.		

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Adult Survey

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

ļ.	Time (24 hr)	% Cloud	Sky Wind (range) Temp (F)
-	<u> </u>	trace	clear) patchy overcast drizzle shower $0-2$ 60°
\mathcal{J}	1535	VALV	clear) patchy overcast drizzle shower 4-5
Ī		1	clear patchy overcast drizzle shower
Ì			clear patchy overcast drizzle shower
	······································		clear patchy overcast drizzle shower
ľ			clear patchy overcast drizzle shower
ľ	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- fopping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	i	
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Mymphalis anuopa (Mouraing Clock)	1		Anodemia mormo (Mormon Metalmark)		
Basilarchia lorquini(Lorquin's Admiral)		,	Papilionidae (Swallowiaila)		· .
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		· .
Vanessa cardui (Painted Lady)	2		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae	-	ļ	Anthocharis sara (Sara's Orangetip) []	2	
Danaus gilippus (Queen)		1	Pieris rapae (Cabbage White)		
Danaus gluppus (Monarch)		1	Pontia protodice(Checkered White)		
Hesperidae		1	Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		+	Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		<u> </u>
Erynnis propertius (Propertius Duskywing)			Duskywing Attill	<u></u>	
Ochlodes agricola(Rural Skipper)			BLMESTI SUBUL		
Lycaenidae (Hairstreaks)			Sully 1		
Atlides halesus (Great Purple Hairstreak)		1	5 <u>9</u> -		
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	16				
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)	14				
Icarcia acmon (Acmon Blue)	- 13				
Celastrina ladon(Echo Blue)					

Surveyor John Green Segment # Maps 30+34 Date: 16 Apr 2010 Comments: NOFL SPTO BESP WREN ACE HAVE MODE BLOCK ATTAL LEGO TOWA HAVE ENTE MOQU NO I BLOCO DEGLI BEEN ATM WEST CORA TUVU MEEL NAMA WESTA SSLA LAZE AND MANS RTHA ROWR PLITE CHE CAQU CAN' SACE GRAD BEFOR HENA WF. Lin Cold Der Lains Land that Me Plant Communities and Habitat Information: June 1, Oak Wedland 15. Neled Host Plants Present: Owl's Clover, one small pelch, 1 capped on Pg. 34 Nectar Plants Present: Sage Erod. XZ, Miner's Lehar Land Carnet Los Cryptach / Plants Commence spe Lonation, Mangholia, Vicco, Mto. Makery West, Bre min Ever and George will Con, Sugabat, Pectacory of 21 Peons Les, Lugars Charge & Fiddlesers **GPS Location: Quino Sighting** Date: **Photographs Taken:** 3. 1. 2. 6. 4. 5٠ 9. 8. 7. 12. 11. 10.

eckerspot General Form

n30		Adult Survey
*-	. B	

NOT M. Bussy, N. Kimball	Date 4/15/10Survey Week Number
Survey Partner(s) Total Acres: Portion Surveyed:	Elevation: Max Min

Ťiı	ne (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)
Start	1030	5% have	clear	patchy		drizzle	shower	2-4	64
	1300	Estohaze	clear	patchy	overcast	drizzle	shower	2-5 (8)	76
	1530	100% have	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, neetar sources.

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

Surveyor MBUSKy NKimbal Segment # Map 031-032 Date: 4/15/10

Comments:			
TOWA	CATO	1 Spens early for surveys	
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and whytare	ANHU	bevomere and very feed	
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<u>bolocat</u>		Surgerble weather condit	γ¢Υ
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Phynosoma			
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	ties and Habitat Inf	formation:	
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plants	. Stopped	- where few flowening surveys at alpine habita	Ŧ
peants			1
plants		surveys let alpine habita	+
plants			<u>+</u> .
plants			+
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Plants Host Plants Pre			<u>+</u>
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Host Plants Pre NO AL	sent: Observe resent:		+
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Host Plants Pre NONC 	sent: <u>Observe</u> resent: Eri con Lomatic (co so, Arthos	d 	
Host Plants Pre NONC 	sent: <u>Observe</u> resent: Eri con Lomatic (co so, Arthos	d 	
Host Plants Pre NONC Nonc Notar Plants P Chyptrinta sp. Fjodum Sic Yuca comp	sent: Observe resent: Eri con Lomatic Ceo sp. Artho S Sal sp workshiw	d 	+
Host Plants Pre NONL None Moetar Plants P Chyptanta sp. Rodum SIC Yuca whp Hypo.	sent: Observe resent: Eri con Lomation Ceo sp. Artho S Sal sp. Worthyhlw Ceo tom		+
Host Plants Pre NONC Nonc Notar Plants P Chyptrinta sp. Fjodum Sic Yuca comp	sent: Observe resent: Eri con Lomation Ceo sp. Artho S Sal sp. Worthyhlw Ceo tom	d 	
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Host Plants Pre NONL 	sent: Observe resent: Eri con Lomatri Ceo sp. Arcto S Sal sp worthyhiw Ceo tom ng NIA	d um Date: GPS Location:	
Host Plants Pre NONL Moetar Plants P Chryptanta sp. Fjodium Sic Yuca Uship Hypo. Quino Sighti Photographs Tak 1.	sent: Observe resent: Eri con Lomatri Ceo sp. Arcto S Sal sp worthyhiw Ceo tom ng NIA	cd um p Date: 2. 3.	
Host Plants Pre NONL 	sent: Observe resent: Eri con Lomatri Ceo sp. Arcto S Sal sp worthyhiw Ceo tom ng NIA	Jun Jun </td <td></td>	
Host Plants Pre NONL Moetar Plants P Chryptanta sp. Fjodium Sic Yuca Uship Hypo. Quino Sighti Photographs Tak 1.	sent: Observe resent: Eri con Lomatri Ceo sp. Arcto S Sal sp worthyhiw Ceo tom ng NIA	cd um p Date: 2. 3.	

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Location May 33	Survey Segment
Surveyor <u>//R+Dk</u>	Date 10-Apr - 16 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						shower	2-5 wants 9	65 (An. 61)
				overcast				
		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	Sand	SAMO

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

Surveyor ALK+DK	Segment #	Date: 10 - Apr - 10
Comments: Man 33 in all	ona Lookout Rd, which is a	Date: 10-248-10
Concrement of any		
		- Coset intin and whomative
Plant Communities and Habit	tat Information: mileous fords	
grasses ulresporting of plo	in tid Clan.)	
-		
Host Plants Present:		
	1 Blue Eyes, botus	
	y Blue Eyrs, botus	
	y Bleve Eyris, botus	
		Location:
Quino Sighting		
Quino Sighting Photographs Taken:		3.
Quino Sighting Photographs Taken: 1.	Date: GPS	3. 6.
Auguno Sighting Photographs Taken:	Date: GPS	3.

Adult Survey

Location <u>MS 635</u> Survey Segment <u>Survey Segment</u> <u>Survey Week Number</u> Survey Partner(s) <u>nible 5.0 shys in same</u> Total Acres: ____ Portion Surveyed: _____

Elevation: Max

Min _____

s.]	Time (24 hr)	% Cloud	7 7	Sky			Wind (range)	Temp (F)
	Start 1150	6	elear patchy	overcast	drizzle	shower	1-5	780/72mm
	15 20	\mathcal{O}	elear) patchy	overcast	drizzle	shower	2-7	726 17.40
.)	1412	0	clear patchy	overcast	drizzle	shower	4-8 446	710/73
	1530	0	clear patchy	overcast	drizzle	shower	0-6 300 2	768 194
			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)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)		·	Apodemia mormo (Mormon Metalmark)		
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	1	
Vanessa annabella(West Coast Lady)		:	Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		[
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae		<u>_</u>	Anthocharis sara (Sara's Orangetip)	5/0	¢
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		<u> </u>
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme(Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	1	
· Hylephila phyleus(Fiery Skipper)	<u> </u>		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)	HTE I		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Shilling of	4	
Ochlodes agricola (Rural Skipper)			· · · · · · · · · · · · · · · · · · ·		
Lycazoidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrvs perplexa(Perplexing Hairstreak)	1		· · · · · · · · · · · · · · · · · · ·		
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)	1.01	cti			
Icarcia acmon (Acmon Blue)	tor 10			-	
Celastrina ladon(Echo Blue)	<u> </u>	<u> </u>			
					1

Surveyor David King			
Comments: - Majory Eb	attable on s	mult hilltop	
12 - Mun SPP bloom/in	but is inforts cla	~, carly stage	\
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(3 <u>1</u>) <u>04</u> <u>7</u>]			
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156-58		······································	
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it most and in	<u> </u>		
SB 422!	<u> </u>		
TUVO	·····		
Bf. m./e		· · · · · · · · · · · · · · · · · · ·	
Plant Communities and Habitat Info	ormation:		
	······································	······	
Host Plants Present:			
Cast grat pol (23) Sa - Pole SH 520	(aprail)		······
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Nectar Plants Present:			
inflormen cart. Experience	Easthily al	Fordim tilling	C. Jense Jorne
Sm. gellen lotus all and the press	Vision (0)	INPINES Brider	<u></u>
Proprietation of the second of the second	3 Jamman 4	Minstakie se	· · · · · · · · · · · · · · · · · · ·
Clyffarthe stp. 12- 10 tors half	Public and a	Remaili	
Quino Sighting	Date:	GPS Location	1:
Photographs Taken:	·		
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<u>4.</u> 7.	8.		9.
10.	11.		12.

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Location Manso And	Survey Segment
Surveyor <u>MK</u>	Date <u>2-10</u> 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	2-5	79.
······································		clear	patchy	overcast	drizzle	shower	<u> </u>	
<u>_</u>		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop 1548	1 1	clear	patchy	overcast	drizzle	shower	0-6	-6

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

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		ļ
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	/	ļ
Vanessa annabella(West Coast Lady)	N.		Papilio rutulus (Western Tiger Swallowtail)	1	<u> </u>
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae		1	Anthocharis sara (Sara's Orangetip)	1	1
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		1	Pontia protodice (Checkered White)		<u> </u>
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	_	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		L
Erynnis fureralis (Funereal Duskywing)	11		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		1	OTHERS:		<u></u>
Erynnis propertius (Propertius Duskywing)	27				<u> </u>
Ochlodes agricola(Rural Skipper)					
Lycaenidae (Hairstreaks)		-			-
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	r f				
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)					_ _
Icarcia acmon (Acmon Blue)	A 11				
Celastrina ladon(Echo Blue)					

Surveyor	<u> </u>
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Segment # 7/120 Date: 19- 4p - 0

Comments: Cash 24 Hour la	<u> </u>	in R- Witche Ch.	C. T. T. H. L. C. A. C.
Comments: Cash 24 How in	in 39 + Queric el.	digit of the Day 2	
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Plant Communities and Habi			and the second s
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The and the find all and			
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Host Plants Present:			
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Neetar Plants Present: Erec	C. Marine Tropas	Rh. avata nice upthe	U) Camutonia, To B. P. M.
Same Some when bellen	Marmacion Plan	Sac. Provant Sich. aux.	Ulicatio Bills Esch al.
Etiles harris part litera to		1. 1. 2.c. Sol. Par. Sty	all a second and a second and
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Quino Sighting	Date:	GPS Location:	
L Quinto Signang			
Photographs Taken:	, , , , , , <u>, , , , , , , , , , , </u>	<u> </u>	
	2,	3.	
1 1		<u> </u>	· · · · · · · · · · · · · · · · · · ·
1.		<u>د</u>	
4.	5,	6.	
	5. 8.	6. 9.	· · · · · · · · · · · · · · · · · · ·

Quino	Checkerspot	General	Form

Location NEAR VIEWS / CNF	Survey Segment_ <u>037-038</u>
Surveyor M, BUSBY	Date 4 20 10 Survey Week Number
Survey Partner(s) <u>N. KIMBALL</u> Total Acres: Portion Surveyed:	Elevation: Max Min

Tim	e (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)
Start	000	Some	clear	patchy	(overcust) drizzle	shower	2-4	64
	1300	1 jow mile	clear	patchy	overcust	drizzle	shower	2-5(11)	86
· · · · · ·	1420	65	clear	patch	overcast	drizzle	shower	5-8(9)	80
KAN	1000	E)	clear	(augus	overcast	drizzle	shower	2-5	75
paque -			clear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
Stop	1600	50	clear	patchy	overcast	drizzle	shower	City of ald a	

Habitat onsite (circle as applicable): hilltops, (idges, tock outgrops, open soils, soil crusts, clay soils, old roads, Plantago, (astilleja) Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		L
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa(Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)	L	
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark) 11112-1111	1B	ļ
Basilarchia lorquini(Lorquin's Admiral)		v	Papilionidae (Swallowtails)	L	
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	L	ļ
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	L	
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		L
Vanessa cardui (Painted Lady)	2		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip). Htt Htt III	14	1
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)	1	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)		+	Colias harfordii (Harford's Sulphur)	3	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)	1	
Pyrgus albescens (White Checkered-Skipper)	2	+	Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)	9		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		_ <u></u>
Erynnis propertius (Propertius Duskywing)			OTSP 1		
Ochlodes agricola(Rural Skipper)			Indra Swallowtail	1	
Lycaenidae (Hairstreaks)			Orange slupper sing 1	2	<u> </u>
Atlides halesus (Great Purple Hairstreak)		Τ			_
Incisalia augustinus(Western Brown Elfin)	3	1			
Callophrys perplexa(Perplexing Hairstreak)	9				
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)	- 5	1			
Icarcia acmon (Acmon Blue)	10				
Celastrina ladon(Echo Blue)		····			

Surveyor Busky Kulal Segme	nt # <u>Mups 37+38</u> Date: <u>20-Apr -10</u>
	all / Amber Gelwicks/
Comments:	plan 1619.672.1993
MOMP Uta stan	SUDEY
	Overous
CATO Whip	Surveyed alignment but
SPTO Coustes	Sporadic near west end
AMCR rabbit	Un map 031 because
SOSP dog	many residential dwellings.
NOMA gran spinliz	Met Amper (@ east end
COLLY mm lion	and she recommended
CAQU bob cat	uno be carelus with
CAKI	INGOS ble. "Will shoot
LEGO	- Willies Chis - Standard - Children - Child
RTMA	
MS JA	1 CM CANTAN THE CONSTITUTE
	In or impediately adj
	un or immediately aug
	to people's yards
Plant Communities and Habitat Information:	
	s dover (as mapped by hand).
	most suitable area atthis
Plantago area sparse but	
Scalut automatic constant	Plantago erector WSKN UB
and good butterfly acting	. There are were and the hand
	Map 038, mapped by hand Scattered, 10005
	Slatteria , Here pass
Host Plants Present:	10 Ven tresh, not drying
Cas exe	
mup 038 - Small pathes	Sut sar Cam col
W/ 10-15 plasts ea.	50 per bezy locif, feit flow
. recorded on map by hand	Sna bics meli yeilows
· map 039 very easier and	2 dozens 2 alora tall showberry?
larry patch cas eve @ hillty	Drappushy Horehound Ced SP.
Nectar Plants Present: Proc. For	Lot SCO Lot Sp. Geo leuc
	Aliva Helianthus Dic corp
Hypo EGO GRAS LUP bios	thistic sp. Fri con Pecto
Erd sic Cali mac Chryp Eri fac Yur whip woodly blue	This a col
	of Millerin courses have have have here here here here here here here he
	GPS Location:
Quino Sighting Date:	
Photographs Taken:	
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+	9.
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Adult Survey

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

Time (24 hr)	% Cloud	Sity	Wind (range)	Temp (F)
Start 1006	10	(clear) patchy overcast drizzle shower	2-4	628/6/91r
1150	HAZ.e	clear patchy overcast drizzle shower.	2-6	67/2 72-15.
1240	highthin	clear) patchy overcast drizzle shower	3-6,	658/72 11
1120	35	clear patchy overcast drizzle shower	2-6-9	71 / 70
1550	50%	clear pateny overcast drizzle shower	6-8mph	648/6/aur
· · · · · · · · · · · · · · · · · · ·		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).			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)	1		Plebejus melissa (Melissa Blue)		<u></u>
Charidryas gabbii (Gabb's Checkerspot)	LHTIM		Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidac (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apgdemia mormo (Mormon Metalmark)	20	
Basilarchia lurguini(Lorquin's Admirai)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	1+11	
Vanessa annabella(West Coast Lady)	I		Papilio rutulus (Western Tiger Swallowtail)	1	
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangelip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	Н	<u> </u>
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		<u> </u>
Hesperidae		1	Colias eurytheme (Orange Sulphur)		ļ
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)		· _	Satyridae (Satyrids)	÷	<u> </u>
Erynnis fureralis (Funereal Duskywing)	mext 11		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: Debanona real	- Wit	
Erynnis propertius (Propertius Duskywing)	1//		Erypnis sp.	3	
Ochlodes agricola(Rural Skipper)			· · · ·		1
Lycaenidae (Hairstreaks)		1			1
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)			· · · · · · · · · · · · · · · · · · ·		<u> </u>
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)		<u> </u>			
Glaucopsyche lygdamus(Southern Blue)	16	<u> </u>	· · · · · · · · · · · · · · · · · · ·	_	
Icarcia acmon (Acmon Blue)	<u>40</u>				<u> </u>
Celastrina ladon(Echo Blue)					

Surveyor Kiwg Segment # $\frac{m540+41}{Date: \frac{4120115}{Date: \frac{4120115}{Dat$

Comments:		
BLSP ACCess	From Freens should smg 1 25A	Rod. Gate in/son SOG H. Agark, in her Mosty survey about hereiter
rato walking	to will hood clenk to need glance.	Mosty survey able helvitet
Anha		
	(250, 1/4) nov 27)205	The Khomes crocer on map
Hoft	(4 sm indv near 223009)	
(of a rin tion	(4 smindl near 22) 201	
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NOFI WBNH		
PSPI SMA		
sptis calgrisqu	incl	
OCHA BCAL		
TUN		
Dom Hag		
6m Por		
	·	
BATI NGEN		
Shellard Poinc, NOMD		
Bhor		
	nd Habitat Information:	
		son chines inersite - bith 10m
N. of I-8 - m1357	5 5 m chaperral 2000 chamil	e some church inspire - but 10m
	while open/ utter 100% com	
South of the Ro	aside some (55 dom Egium F.	Se - 405 toj harto Ja
and sct	04.6	
Host Plants Present:	· · · · · · · · · · · · · · · · · · ·	
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Planny		
Nectar Plants Presen	it:	
cyphitnesp	Compland gllsmy for secce white	Didotoma pro Abrica Data
	Platio bothmys > Pl. March have Lotis (sin allow) - Solanom Parishi Pincalle heed - Solation yants	The state of the state of the state
Erodim CICV	Pineally heed Solarian yants	Sister Chila follow Decron room tost
		Chita Bector ang in
Claylonia		````` <u>```_````````````````````````</u>
Claylonia Quino Sighting	Date:	GPS Location:
Photographs Taken:		
1.	2.	3.
	5.	6.
4.	8.	9.
7.		12.
10.	11.	

CN	F
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Adult Survey

Location Map	<u>51 - B</u>	erne H	lake	Date 14	Survey	Segment_	/ey Week Number _	1
Surveyor/	- C,	14 SN	1					
Total Acres:	Portion Surv	eyed:			E	levation: N	/lax Min	
Time (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)
Start 1048	0			overcast				Gr + Ar = 62
5 - - - - - - - - - -		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower	lausy	
		clear	patchy	overcast	drizzle	shower	W to Out	
		clear	patchy	overcast	drizzle	shower	up	
Stop /433	0	cfear	patchy	overcast	drizzle	shower	2-5mph	6r=740/1-1

Habitat onsite (circle as applicable): Militops, ridges, lock outcrops, open soils soil crusts, clay soils, ott roads, Mantago (astilleza, Cordylanthus, Antirrhinum, nectar sources)

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)		1	Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiepa(Mourning Cloak)			Anodemia mormo (Mormon Metalmark)		
Basilarchia lorquini(Lorquin's Admiral)		1	Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	L.	
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	II/I		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)		1	Pleris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme(Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)	Fr	
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)	Sector Se	· ·
Erynnis Yurgralis (Funereal Daskywing)	14		Coenonymphaecalifornica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)		1	Cet Sister	1	
Ochlodes agricola(Rurat Skipper)			under using Moth	1	
Lycaenidae (Hairstreaks)			Sulphur pr.	1	
Atlides halesus(Great Purple Hairstreak)			Blue up.	11	ļ
Incisalia augustinus (Western Brown Elfin)			• • • • •		
Callophrys perplexa(Perplexing Hairstreak)	i)				
Strymon melinus (Gray Hairstreak)					<u> </u>
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon(Acmon Blue)	1				
Celastrina ladon(Echo Blue)		1			

mments: Cast. and - plante spread act whin patch. Howevering & pop. may mineare (ade 2571452) - Howeving, arean stars & up to kin tall, cont. along readside which is a feeting slope of 1000's of plants 	
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engli Kali i i i i i i i i i i i i i i i i i i	
	· · · · · · · · · · · · · · · · · · ·
ant Communities and Habitat Information: Oak wiedlard, Corrigional, CS.	5, Chepi
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ost Plants Present: Cart. erg. P. cr.	
lawering	
	cap, sel why Lotin, Li
COMPARATION CONTRACTOR COMPARATION COMPARATION COMPARATION CONTRACTOR	1. Wally blue and
Finite a with a second se	
Physical and the second s	· · · · · · · · · · · · · · · · · · ·
Finite a with a second se	
us of Grap cat, Spinstin, hand Fried crass, Mar mar and hives, Kickiella, Clay. par	
us of finap cal, Squarting, hand tried cross, Mac mar and hives, Kickiella, Clay. par	
Quino Sighting	
Quino Sighting on March Tried Crass, Mac. mar. hisss, Kickiella, Clay. pur Quino Sighting	
Quino Sighting on Nate: GPS Location:	
Quino Sighting	
Quino Sighting on Nate: GPS Location:	

	Date <u>077 Apr -10</u> Survey Week Number
Survey Partner(s) DK Total Acres: Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud		- Sky	مراجع المراجع ا مراجع المراجع ا		Wind (range)	. Temp (F)
Start 1205	0	(fear) patchy	oversast	drizzle	shower	1-2	72 (air 78
1437-	.0	crean 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 (ais 72)

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

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

	Surveyor	NK, DK		Segment #_	Map 52,44	Date: 08-Apr-10 ut la speurs of Cast. ar. 4
Co	mments: /	a potcher of	Las. ral, 6	a W-end of M	100 52; graniti soils	utle spens of Cest. px. 4
nec	tar sources	-ended @ 2	73729-0	273721		
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Pl	lant Commu	inities and I	Habitat Info	rmation: Chap, 1	Riparian, Cour Live	Dalk- Kiperlan
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н	lost Plants I	Present: C	ent. PN. Coz	st eg		
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	Vectar Plant	s Present:	- · · · · · · · · · · · · · · · · · · ·	<u> <u> </u></u>		birgloz, Phacelia, Er. uc., Tid.
	Jeotar Plant	s Present:	las.cal., Ac			biogloz, Phocelia, Er. cic., Tid. pering Bell, Mirabilai, Rhus over Calu, Marabilai, Rhus over
ning A	ensetting C	hanussonia, K Max. macun,	- · · · · · · · · · · · · · · · · · · ·			North March 191
ring A	ennoverting C	ts Present: hanusaonia, f Max. maan, unt. sago.	- · · · · · · · · · · · · · · · · · · ·			North March 191
rive A	ensetting C	hannisonia, K Mar. macun, urte sago.	- · · · · · · · · · · · · · · · · · · ·			pening Bell, Mirabiln's, Rhus ovat S., Calizy marzo; Ephedra, Red M
rive A	ensertung C winus Hung A Waand G	hannisonia, K Mar. macun, urte sago.	- · · · · · · · · · · · · · · · · · · ·	- par, Crypty Ending Kaintbrush	Peony, lot scrol, When, Sol, when, Dich. cap	pening Bell, Mirabiln's, Rhus ovat S., Calizy marzo; Ephedra, Red M
Time A UU	ensertung C winus Hung A Waand G	hannisonnia, <u>k</u> Mar. macara, unt: sapo. 	- · · · · · · · · · · · · · · · · · · ·	Date:	Peony, lot scrol, When, Sol, when, Dich. cap	ipening Bell, Mirabilai, Rhus ovat S., Caly, Marro; Ephedra, Ped M
	en szetting ((pirus Hun,) rib. copal, , (1 Quino Sig Photographs 1.	hannisonnia, <u>k</u> Mar. macara, unt: sapo. 	- · · · · · · · · · · · · · · · · · · ·	Date:	Peony, lot scrol, When, Sol, when, Dich. cap	ipening Bell, Mirabilni, Rhus ovat S., Caley, Marzo; Ephedra, Ped M 3.
N A U P 1 4	<u>en szertun</u> ((pir <u>us</u> Huo.) Sh. cond. , (1] Quino Sig Photographs	hannisonnia, <u>k</u> Mar. macara, unt: sapo. 	- · · · · · · · · · · · · · · · · · · ·	Date:	Peony, lot scrol, When, Sol, when, Dich. cap	ipening Bell, Mirabilai, Rhus ovat S., Caly, Marro; Ephedra, Ped M

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Location IANS	SO CNF		Survey Seg	gment	
Surveyor MG	AUGU	Date <u>4</u>	-6-10	Survey Week	Number[
Survey Partner(s)					1 10
Total Acres:	Portion Surveyed:		Elev	ation: Max 2276	<u>.</u> Min

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start 1115	Ð	clear) patchy overcast drizzle shower	0-8	60-71
, <u>, , , , , , , , , , , , , , , ,</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 1436	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 Hill (Total) toppi		g Dutterity species		Hill- tòpping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta(Mylitta Crescent)		· · · · · · · · · · · · · · · · · · ·	Brephidium exilis(Western Pygmy-Blue)	'	
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)		1	Apodemia mormo (Mormon Metalmark)		
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)		1	Pieridae (Whites and Orangetips)		L
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)	3	
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus(Queen)		-	Pieris rapae (Cabbage White)		
Danaus plexippus (Quotin)		1	Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum(Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	2	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)		-	Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)	1		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)		1	VANCSCO SP.	1	
Ochlodes agricola(Rural Skipper)			2AVWNIS SP	2	
Lycaenidae (Hairstreaks)			· · · · · · · · · · · · · · · · · · ·		
Atlides halesus (Great Purple Hairstreak)		_			
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)	6	<u> </u>			
Icarcia acmon (Acmon Blue)	100				<u> </u>
Celastrina ladon(Echo Blue)					

Surveyor _	MCGAUGH	Segment #			
Comments:	South 57142	02 70 571444 (pole	its) breeted by he	on Velly head	
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<u>.</u>					
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Plant Comm	nunities and Habit	at Information:	In a further	milauti I A	
(Chaparrol . Cho	inise, MANZGANTA, CCE ut- anterposis, celifo	NOTOTIS DUCKWIRH FZ	26/200	
	coastal sage SU	it - artempsic curre	IMice		
_	ONE WORLAND	<u></u>		<u> </u>	
Host Plants	s Present:				
(ASTILLE(A, LORDE			<u> </u>	
			<u></u>		
	····	······			
Nectar Plan	nts Present:				
	MUSTARDS LUDIAS	LONS, CLOVELONDS	Loe, chodurus, diche	LESTONING, RHUS CHARA	
	AR MALOSINA, E	production			
· · · · · · · · · · · · · · · · · · ·					
Quino Si	ighting	Date:	GPS Location:		
	<u> </u>				
Photograph	s Taken:		<u></u>		
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4.		5.		<u>б.</u>	
7.	·····	8.		9. 12.	
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Location Map 50	Survey Segment			
Surveyor Sterre Myers	Date 6 Apr to Survey Week	Number /		
Survey Partner(s) <u>CM', NK</u>		/		
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	
		clear patchy overcast drizzle shower	
Stop 1435	\overline{O}	clear patchy overcast drizzle shower	0-5

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

Butterfly Species		Hill- topping	Bufferfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)	1	
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	3	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)	·	
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum(Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	5	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	l		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:	-	
Erynnis propertius (Propertius Duskywing)	7		Van1956 50.		
Ochlodes agricola (Rural Skipper)			blue Sp.		
Lycaenidae (Hairstreaks)			white en:		
Atlides halesus (Great Purple Hairstreak)		-	Erynnis 50.	3	
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	3	×	······································		
Strymon melinus (Gray Hairstreak)			······································		
Glaucopsyche lygdamus(Southern Blue)	6				-
Icarcia acmon (Acmon Blue)	2				
Celastrina ladon(Echo Blue)	Z	X			

Surveyor Steve Myers Segment # May 50 Date: 06-Apr-10 Comments: Habitat from 511432 south to 571437 primarily Chamise with small open areas frequent along road, Castilleis exserts patches sparsely scattered along that section. Rhomans croced very infrequent. From 571440 to Vz way between 571441 + 571442 mixed chaparrel. Much open ground near 571440, with Castilleja exserta + Cordy lanthus Prequent. Plant Communities and Habitat Information: Chamise and mixed chaparral Host Plants Present: Castilleja exserta, Cordy lanthus Rigidus Nectar Plants Present: Dicho Ostemm capitation, Cryptantha, Erio diction crassatolium, Lastnenia, Rhus ovata **GPS Location:** Date: **Quino Sighting** Photographs Taken: 3. 2. 1. 6. 5. 4. 9. 8. 7. 12. 11. 10.

Adult Survey

Location//	WS 53+ 52	Survey Segment
Surveyor	<u>ik</u>	Date 27-47-12 Survey Week Number 1 - 2 how which have
Survey Partner(s)	L. Gorman	
Total Acres:	Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud	Sky		Wind (range)	Temp (F)
Start /// 7	1	clear patchy overcast	drizzle shower	1-2	67 (4: 71)
13/5	.50	clear patchy overcast	drizzle shower	2 - Z	5 / - 3)
la J	35	clear patchy overcast	drizzle shower	548	88 12 - 823
		clear patchy overcast	drizzle shower		
		clear patchy overcast	drizzle shower		
		clear patchy overcast	drizzle shower		
Stop //57/	. 30	clear patchy overcast	drizzle shower	2.4	72 (1

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	Hutterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)	·		Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	1111	
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)	-		Papilio rutulus (Western Tiger Swallowtail)	1	
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	127		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae		·	Anthocharis sara (Sara's Orangetip)	进机	1
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			1 Alexandre -		
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak))				
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)	1.				
Icarcia acmon (Acmon Blue)					
Celastrina ladon(Echo Blue)					

Surveyor	- N ,	K4	Un
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Segment # Maps 53+52 Date: <u>3+ 141-12</u>

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Plant Communities and Hab	itat Information:	A Star of the D Alloc Starter	
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Host Plants Present: Cul ,		<u></u> ,	
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Quino Sighting Photographs Taken:	Date:	Lie. Cal. San 140.	1200 - 2 5 Kacalia ;
Construction of the formation of the for	Date:	Lie. Cal. San 140.	Сола и и Касайа, и Каса и и Ish 1 13.2, Huck Letus, I. I. Сислиния : 3. 6.
Image: A state of the state	Date:	Lie. Cal. San 140.	1200 - 2 5 Kacalia ;

Location <u>///</u> Surveyor <u>5, /</u> Survey Partner(s)	= Map 54, 35, 57, 4 56 hyers, C. Mc Gaigh	Survey Segment Date 7 Apr 10 Survey Week N	umber /
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud	Sky Wind (range) Temp (F)
Start 1045	0	clear patchy overcast drizzle shower Z-8 65°
		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 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)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa(Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini(Lorquin's Admiral)	1		Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)		-	Papilio eurymedon(Pale Swallowtail)	2	
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	3		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)	2	
Danaidae	1		Anthocharis sara (Sara's Orangetip)	3	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)	2	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	4	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)	9		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Erynnis white co	5	
Ochlodes agricola(Rural Skipper)	- <u>-</u>		white sp	2	
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	11				
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)	3				
Icarcia acmon(Acmon Blue)					
Celastrina ladon(Echo Blue)					

Surveyor Myers Mc Gaugh Segment # Map 54, 57, +56 Date: 74pr10

Comments:			
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Plant Communities and Habitat	Information:		
Plant Communities and Habitat	<u>f</u>	on y sail	
Recently burned mixed Rhamnus crocea spar	+ chamise ch:	T	
Rhamnus crocea spar	SL & WIDESPIT	d .	
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Host Plants Present: Plantag	O erecta, Casti	V	
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Nectar Plants Present: Dicht	lostemina cabita	tum Lotus scoper	ium, Erodium, Eriophyllun,
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Quino Sighting	Date:	UI O BOORIOI	
Photographs Taken:			1
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Location Map 55+56	Survey Segment
Surveyor David King	Date Date Survey Week Number
Survey Partner(s) John Gressen, Mitche Kimbell	
Total Acres: Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud	Sky	Wind (range) Temp (F)
Start 1137	U	clear patchy overcast drizzle shower	2.8mph 76
1317	0	clear) patchy overcast drizzle shower	2-8 72
1430	0	clear patchy overcast drizzle shower	4 mgh 81
151	0	clear patchy overcast drizzle shower	2-9mph 78 met.
· · · · · · · · · · · · · · · · · · ·	•	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- tòpping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)	•		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiope (Mourning Cloak)		,	Apodemia mormo(Mormor Metalmark)		
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	14	
Vanessa annabella(West Coast Lady)	1		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)	^ <b>&gt;</b>		Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	1		Pieridae (Whites aud Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara(Sara's Orangetip)	1/1	
Danaus gilippus (Queeti)	1		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	1	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids) Ometag		
Erynnis fureralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		1	OTHERS: Orantino	I. I.	
Erynnis propertius (Propertius Duskywing)			Duskymm	utt	
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)			· · · · · · · · · · · · · · · · · · ·		<u> </u>
Atlides halesus (Great Purple Hairstreak)					ļ
Incisalia augustinus(Western Brown Elfin)				· .	
Callophrys perplexa(Perplexing Hairstreak)	iky				<u> </u>
Strymon melinus (Gray Hairstreak)	`		<u>د</u>		<u> </u>
Glaucopsyche lygdamus(Southern Blue)	(j)				<u> </u>
Icarcia acmon (Acmon Blue)					L
Celastrina ladon(Echo Blue)					

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Surveyor King/Kime. 11 Given Segment # Map 55+56 Date: 07- Apr-20

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Caph HAEL row R ACWO CATO provide dog splo RTHA a(a RTHA OW WCSP $debM$ . $here) CAQU franc (rain) Coyder Hark (rain) Coyder Hark (rain) Coyder Hark (rain) Coyder Host Plants Present: Host Plants Present:$	onimise + tocatable confiction sp.
row R A C W O CATO Panytic doy rflo R T HA a(9 R T HA) a(9 R T HA a(9 R T HA) a(9 R T HA) a(1 R	chamise + tocatale confront SP.
SP10 $RTHA$ $a(9)$ $WCSP$ $b:bb/ 1.22$ $CAQv$	chamise + tocatale confront SP.
$\frac{1}{2} \frac{1}{2} \frac{1}$	chamise + tocatale confront SP.
Host Plants Present:	chamise + tocatale confront SP.
Host Plants Present:	chamise + tocatale confront SP.
Host Plants Present:	chamise + tocatale confront SP.
Host Plants Present:	chamise + tocatale confront SP.
Host Plants Present:	chamise + tocatale confront SP.
LoHO mn 4 dect An 40 RCSP Plant Communities and Habitat Information: Direct South might chipmal - 400 shrb.com Host Plants Present:	chamise + tocatale confront SP.
Host Plants Present:	chamise + tocatale confront SP.
Plant Communities and Habitat Information: Burny Souther might chepwal - 4000 shows comm Host Plants Present:	chamise + tocatale confront SP.
Plant Communities and Habitat Information: Burny Souther might chepwal - 4000 showson Host Plants Present:	chamise + tocatale confront SP.
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Burn South might chepmal - 4070 shrbiann Host Plants Present:	onimise + tocatable confiction sp.
Host Plants Present:	onimise + tocatable confiction sp.
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	n col. Whisper bell
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Lomatum 71. Phacum cicutaria

Survey Partner(s) John Grenen Nicole Kimbell Elevation: Max Min Total Acres: _____ Portion Surveyed: _____

Time (24 hr)	% Cloud		Sky			Wind (range)	Temp (F)	-
Start 1137	C	clear patchy	overcast		shower	2-8mph	76	
1217	Ò	clear) patchy	overcast	drizzle	shower	2-8	72	
1430	0	(clear) patchy	overcast	drizzle	shower	4 mph	81	
151	0	clear patchy	overcast	drizzle	shower	2-4mph	78 Mec	4 John
		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 soil, soil crusts, clay soils, old roads, Plantago, (Castilleja) Cordylanthus, Antirrhinum, rectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marine (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)		·	Plebejus melissa (Melissa Blue)	·	
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)	ļ	
Phycoides mylitta(Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		·
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiop (Mourning Cloak)		*	Apodemia wormo (Mormon Metalmark)		 
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	14	
Vanessa annabella(West Coast Lady)	1		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	1		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)	P		Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	161	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Qaccin)			Pontia protodice (Checkered White)		
		1	Colias eurytheme (Orange Sulphur)		
Hesperidae Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	1	
		<b>₽-</b>	Eurema nicippe (Sleepy Orange)		
Hylephila phyleus(Fiery Skipper)			Satyridae (Satyrids) Orn 44	1	
Pyrgus albescens(White CheckeredSkipper) Erynnis funeralis (Funereal Duskywing)		+	Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: Oranghio	In li	K
Erynnis propertius (Propertius Duskywing)			Duskynm	utt	
Ochlodes agricola(Rural Skipper)					
Lycaenidae (Hairstreaks)			•		<u> </u>
Atlides halesus (Great Purple Hairstreak)					<u>  </u>
Incisalia augustinus(Western Brown Elfin)					<u> </u>
Callophrys perplexa(Perplexing Hairstreak)	YXX				
Strymon melinus (Gray Hairstreak)			<u>۱</u>		- <del> -</del>
Glaucopsyche lygdamus(Southern Blue)	$ \eta $				
Icarcia acmon (Acmon Blue)					
Celastrina ladon(Echo Blue)					<u> </u>

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Adult Survey

Surveyor King/Kimb. 11 Green Segment # Map 55+56 Date: 7-xpr-10 **Comments:** BCSP Granice spins 5158 neki speckled of thespecke HAFEL Lasp Cath TOWR ACWO Paristic dog CATO 5010 RTHA (019 WCSP 10VU Side Eld I 1:22 CAQU m. force ( zay) Coytes AMKe Chsp 1250 COHO mulided Anto RCSP đ. Plant Communities and Habitat Information: Construs SPP. Rh. integration Burn southin min chipmal - \$107 shrbian chamise tocatate crypterin sp. But ista SP. Roch Fase . ۰. Host Plants Present: Antonnon conthignam whigh hell Solanum SP. Eschatzin cal. Nectar Plants Present: Clower lotas scopen Plis 1.1-15 Yncia whip Phullia parting Frijlhow conut Triphy In that, Blacdick march malricap Chia balls print balls carle the p simm inal Pen Comyonia 4P. Errinn Fel Rock Lotys p. n.k Pingtern epitchills Cennother tomethes the caliber macro **GPS Location:** Date: Compthythe po Quino Sighting <del>501</del>, Goldfields Hellightun scopering Contraction scopering Contraction scotaking Theory of the Photographs Taken: 3. 2. 1. Amsinkom 6. 5. 4. Redminis 9. Capeth exant 8. 7. 12. 11. 10.

Arctossfh. Mizballs st. Clasteric Lomotrom 71. Phacum cicateria

Location Map Surveyor NK	70 +69 +DK	Survey Segr		mb <b>e</b> r _/
Survey Partner(s)		· · · · · · · · · · · · · · · · · · ·		
Total Acres:	Portion Surveyed:	Elevat	tion: Max	Min

Time (24 hr)	% Cloud		Sky			Wind (range)	Temp (F)
Start 1014	$\mathcal{O}$	clear patchy	overcast	drizzle	shower	0-2	71
1149	. (1	clear patchy	overcast	drizzle	shower	24	27
1323	Õ	clear patchy	overcast	drizzle	shower	7-8 10 10 11	S).
<u></u>		clear patchy	overcast	drizzle	shower	f	
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
Stop /345	Q	(clear) patchy	overcast			2-5	79 /16-2

Habitat onsite (circle as applicable): hilltops, ridges, fock 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- tòpping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		├────
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	1		Everes amyntula (Western TailedBlue)		L
Phycoides mylitta(Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
NympLulis antiope(Mourning Cloak)	f	1	Apodemia mormo (Mormon Metalmark) And Ab	ljr.	1
Basilarchia lorquini(Lorquin's Admiral)		1	Papilionidae (Swallowtails)	1	
Junonia coenia(Common Buckeye)	<u></u>		Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)	1	1	Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)	[	1	Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	1.1		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)		1	Anthocharis cethura (Desert Orangetip)		
Danaidae		1	Anthocharis sara (Sara's Orangetip) Man	b	
Danaus gilippus(Queen)		1	Pieris rapae (Cabbage White)		
Dangus plexippus (Monarch)	1	1	Pontia protodice(Checkered White)		
Hesperidae	1		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	1	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)	-		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	₿°±		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duşkywing)			neturna Mora ma	. 10.	
Ochlodes agricola(Rural Skipper)	1			1	<u> </u>
Lycaenidae (Hairstreaks)			D- tic	117	
Atlides halesus (Great Purple Hairstreak)				1	
Incisalia augustinus(Western Brown Elfin)			Acouse Lupine mana	like	
Callophrys perplexa(Perplexing Hairstreak)	114		Partu uline	1	
Strymon melinus (Gray Hairstreak)			Elue and the second sec	1	<u> </u>
Glaucopsyche lygdamus(Southern Blue)	)lu		Belley's white		
Icarcia acmon (Acmon Blue)					
Celastrina ladon(Echo Blue)					

Surveyor <u>Nk+ik</u>	Segment #_ <u></u>	<u> 70 469</u> Date: <u>07 Apr. D</u>	
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Plant Communities and Habitat	Information: Chappens	red Cha. Ch. M.	
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Host Plants Present:	,		
			<u> </u>
Next-a Plants Present		The man ter cal Gar sur Plant	Soi Cher
Nectar Plants Present:	· Cille Congress Car all		<u>, an in the second second</u>
Our bar old my	A CONTRACTOR OF THE ADDRESS OF THE A		
Quino Sighting	Date:	GPS Location:	
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Photographs Taken:		3.	
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7	11.	12.	
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Location MARS 74-71 GOLDEN ACOAN Survey Segment Surveyor WERS / MCGAUGH Date 4-16-10 Survey Week Number	T_
Survey Partner(s) Portion Surveyed: <u>11236 - 14180-31</u> Elevation: Max <u>100</u> Min	
Time (24 hr) % Cloud Sky Wind (range)	Temp (F)
Start $10SQ$ (clear) patchy overcast drizzle shower $0-3$	600
	D'A'F

are l'odys	clear patchy overcast drizzle shower		550
Allo (ar - j	clear's patchy overcast drizzle shower		_
	clear patchy overcast drizzle shower		
1215	clear patchy overcast drizzle shower	2-7	640
1430	clear patchy overcast drizzle shower	ヨーシ	690
Stop 1/2 s	cleary patchy overcast drizzle shower	3-8	610

Stop [[30] (clear) patcny overcast ut22 showed a Habitat onsite (circle as applicable): filltops/ridges/rock outcrops open soils soil crusts clay soils, old roads, Plantago, Castilleja, Cordylanthus Antirrhinum, mectar, sources.

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

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Nectar Quin Photog	lants Present: ( (A) • Plants Present: no Sighting	lagthom Malcythas Cupitant	$\frac{\sqrt{ew}}{\sqrt{e}}$	pipe Valls Valum	Location		

Location Maps 77 + 75 Surveyor MK Survey Partner(s) MM

Total Acres: Portion Surveyed:

Elevation: Max

Min

Time (24 hr)	% Cloud		Sky			Wind (range)	Temp (F)
Start //n×	7	(clea)⇒patchy			shower	0-1	84/ain-81)
1244	.5	clear patchy	overcast	drizzle	shower	)-4	87 (m 80)
	A.	clear patchy	overcast	drizzle	shower		
	No.	clear patchy	overcast	drizzle	shower		
	6.12	clear patchy	overcast	drizzle	shower		-
· · · · · · · · · · · · · · · · · · ·	Q .Y	clear patchy	overcast	drizzle	shower		
Stop 1703	15/100	clear9-patchy	overcast	drizzle	shower	0-h	78/an-78

Survey Segment <u>Bulkingh</u> Date <u>-26-Apr-/7</u> Survey Week Number

Stop 1+0.3  $1 \supseteq (hoge)$  cleans-patchy overcast drizzle shower 0-6 Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-Po(an-

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	Ì	
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	MAIN	
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		L
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		Í
Vanessa cardui (Painted Lady)	(ull	-	Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	445 11	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		ļ
Hesperidae		· .	Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	N/		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Blue IP.	1	
Ochlodes agricola (Rural Skipper)			Plus Sp. Pearly Mainie	1/	
Lycaenidae (Hairstreaks)			,		<u> </u>
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	[[]]				ļ
Strymon melinus (Gray Hairstreak)					1
Glaucopsyche lygdamus(Southern Blue)		<u> </u>	·	_ <b>_</b>	<u> </u>
Icarcia acmon (Acmon Blue) Many	LHF 1				<u> </u>
Celastrina ladon(Echo Blue) -					<b></b>

Surveyor				
Comments:				
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I faire Commu	intes and mapital in	Bin Bio	2 LIGE OF ULWI TAWING	ICK WOOdlark + grant ar 21
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Clian chape				16. <u>K. wood 14</u> ed. <del>4 gron 17 a.e. 31</del>
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Host Plants Findhan P-brush Car Mica, Mica	Present: Present: Las. cal., T.A. Top: Perstanon, L. Winn, Keckinki, En 1. Macon, Schedin, Phys. ing	under Orien, Mich Lup Dain, Plagin Vice con En, M.C. ac. fal.	Crypt, Calin, Main Juc. sch., Peorg, Jold Mr., Mr. Sch., Charles GPS Location:	4 Bhrich Ling, Car, Amsirchia Rea Claim L. Korlic Lotus, A, Dich. 000, Barr, Blue Ey 22
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Host Plants Field and P-brish Cear Auca, March Plants Plan	Present: Present: Las. cal., T.A. Top: Perstanon, L. Winn, Keckinki, En 1. Macon, Schedin, Phys. ing	<u>иликота, 74401</u> (щ. раб., Радин (щ. раб., Радин т. соп. К., М. С. ac. fat. Date: 2.	Crypt, Salia, North Juc. Shy Peory, J.I.d M.S., M. Marker GPS Location:	4 Bur and and an cer Amsirchia An Clin An Barr, Blue By M A, Dich. cop., Barr, Blue By M 3.

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Adult Survey

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Surveyor John	Green	Date 26 Apr 2019 Survey Week Number 2	
Survey Partner(s)			
Total Acres:	Portion Surveyed:	Elevation: Max Min	

🍼 🗧 Time (24 hr) 🕅							Wind (range) *	Temp (F)
Start 0930	5% high	clear	patchy	overcast	drizzle	shower	0-1	70.3
1530	45%	clear	patchy	overcast	drizzle	shower	1-3	73,8
1625	25%	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)	[		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark) .		
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	4		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	1	
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)	3		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)	1	
Danaidae			Anthocharis sara (Sara's Orangetip)	4	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	3	
Hesperidae			Colias eurytheme (Orange Sulphur)		1
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)	1	
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)	1	
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mouraful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Duskywlag sp.	7	
Ochlodes agricola (Rural Skipper)			Orange Up sp.	7	
Lycaenidae (Hairstreaks)			Blue sp.	9	<u> </u>
Atlides halesus (Great Purple Hairstreak)			Sulphur sp.	8	,
Incisalia augustinus (Western Brown Elfin)			Sulphur sp. Grass Skipper sp.	Ĩ	
Callophrys perplexa (Perplexing Hairstreak)	2		ff	+-*	
Strymon melinus (Gray Hairstreak)	1	1			
Glaucopsyche lygdamus (Southern Blue)	3				
Icarcia acmon (Acmon Blue)	11	<u> </u>		-	<u> </u>
Celastrina ladon (Echo Blue)					
L		<u> </u>	<u> </u>	<u> </u>	<u> </u>

Surveyor John Green Segment # Maps 1-4 + 12 Date: 26 Apr 2010 others in field notes Plant Communities and Habitat Information: Deerweed Scrub, Oak Woodland, burned Chaparral Host Plants Present: Plantago ereda, Owl's cloves Nectar Plants Present: Many, including goldfields, Inpines, Oyptauthes, Pharelies, etc. **Quino Sighting** Date: **GPS** Location: Photographs Taken: 1. 2. 3. 6. . 4. 5٠ 8. 9. 7. 11. 12. 10.

Т

Adult Survey

Location MADS HINY TO	Survey Segment MAD5 M5-002-004
Surveyor M. WILCOX	Date 5 MAY 10 Survey Week Number 2
Survey Partner(s)	
Total Acres: Portion Surveyed:	Elevation: Max Min

Ti	me (24 hr)	% Cloud			Sky .			Wind (range)	
Start	1030	0	Clear	patchy	overcast		shower	0-2mph	60°F
	1215	0	clear	patchy	overcașt	drizzle	shower	1-3Mph	75°F
	1500	5	(clear	patchy	overcast	drizzle	shower	2-SMDh	84°F
		^^	clear	patchy	overcast	drizzle	shower	. 1	
			clear	patchy	overcașt	drizzle	shower		
			clear	patchy	overcast	drizzle	shower	1	
Stop	:		clear	patchy	overcašt	drizzle	shower		

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

4

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

MW Maps 2-4 05 May 10

NECTAR: LUPINUS SP., MUSTARDS, SM. YELLOW/OR PEA, MELILOTUS INDICA, SM. VELION OSMPOSITES, WOOLY BLUE CURLS, BLUE DICKS, ERODIUM CIC, BUSH MALLOW, LOT. 3 COD FIG WORT, CLAYTONIA, CA POPPY, ROCK, PEA, ERYP.SP., MARUB VULG, STICKY MONKEY FLOWER YUCLA WHIP, LUPINUS BICOLOR, LUPINUS (H GARY/STINIGING) CLIMBING SCROPH OR PEA (4000DAR), PUBLOCIA DISTANS, LARUAL HOST PLANTS = PLANTAGO BRECTA, ASTUCCEDA EXERTA

BIRDS =	ACNO	WEST	WITU	AMRO	HOWE
	NOFL	WEBL	BHCO	LABU	ATFL
	NOFI	AMCR	PVMA	BCSP	MODO
	EUST	ANHU	NUWO		TUVU
	RTHA	SPTO	CAPU	LASP	CATH

HERDS: SCELOD. SOC.

MAMMARS: Spenn. BEECH, SYLVILLIGUS, DEED (THACKS), COYOTE (THACKS) SCAT)

Location AAA	DS_HWY_76	Surv	/ey Segment 📈	<u>ADS MS-002</u>	2-004
Surveyor $\mathbf{M}$ ,	NILCOX	_ Date <u>5 M</u>	AV 10 Survey V	Veek Number _ 2_	
Survey Partner(s)	- · ·				
Total Acres:	Portion Surveyed:	~	Elevation: Max	Min	

📲 📶 🌆	% Cloud		Sky			(Wind (range)	Temp (F)
Start 1030	0	clear patchy	overcast	drizzle	shower	0-2mph	60°F
1215	0	clear) patchy	overcașt	drizzle	shower	1-3Mph	75°F
1500	5	(clear) patchy	overcast	drizzle	shower	2-SMD4	84°F
		clear patchy	overcast	drizzle	shower	1	
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower	1	
Stop		clear patchy	overcast	drizzle	shower		

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

Butterfly Species	Count (Total)	Butterfly Species	Count. (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)	-	Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	1 4 4 1 4	Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)	ø	
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	7	
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)		
Hesperidae		Colias eurytheme (Orange Sulphur)	• •	
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)		CASISTER	1	
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				[
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)		· · · ·	_	
Strymon melinus (Gray Hairstreak)				
Glaucopsyche lygdamus (Southern Blue)				
Icarcia acmon (Acmon Blue)	81			
Celastrina ladon (Echo Blue)				

INDICA, SM. VELLON COMPOSITES, WOOLY BLUE CURLS, BLUE DICKS, ERODIUM CIC BUSH MALLON, LOT SOUD FIG WORT, CUATTONIA, CA POPPY, ROCK PEA, FRYP.SP, MARNB VULG, STICKY MONKEY FLOWER YUCCA WHIP, LUDIANUS BICOUGR, LUDIANUS (HOARY (STINGING) CLIMBING SCROPH OR PEA (44000 AR), PUBLOCIA DISTANS, ST DIANTS = DLANTA-6 TOCTA OFFICE A STANS, PLANTAGO ERECTA, OSTILLEJA EXERTA

CALY MACKO, ENCECLA FARN, GALO S PLEND,

LUPINUS SP., MUSTARDS, SM-YELLOW/OR PEA, MELILOTUS

BIRDS =	ACNO	WEST	WITU	IMRO	HOWR
-	NOFC.	WEBL	BHCO	LABU	ATPL
	HOFI	AMCR	PVMA	RCSP	MODO
	EUST	ANTEV	NUWO	H 00 R	TUVU
	RTHA	SPTO	CAQU	LASP	CATH

SCELOD. GOC. HE2205 -

NECTAR:

ARVAE HOST PLANTS=

MAMMARS: SPERM. BEECH, SYLVILLOUS, DEER(THACKS), COYOTE (THACKS SCAT)

Adult Survey

Location <u>Ilwy</u> 76 Surveyor Survey Partner(s)	, MARS 4-8 MIGAUGH	TL682	Date_	Survey Segr 4-26-10		Number	2
Total Acres:	Portion Sur	veyed:		Elevat	ion: Max	Min	

🚶 Tim	ie (24 hr)	% Cloud	<b>计注意</b>	[™] , Sky	建合用了 花 花 (空)		Wind	(range)	*** Temp (F) **
Start	0950	clear	> patchy	overcast	drizzle	shower	0-3.	106	72°F
		clear	patchy	overcast	drizzle	shower	thost, t		
		clear	patchy	overcast	drizzle	shower	J		
		clear	patchy	overcast	drizzle	shower			
		clear	patchy	overcast	drizzle	shower			high of 840F
		clear	patchy	overcast	drizzle	shower			
Stop	1600	clear	>patchy	overcast	drizzle	shower			740F

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

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)	Ì	Yes	Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	3	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	2	
Hylephila phyleus (Fiery Skipper)		1	Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	2	YES	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)			Vanesca SD	2	
Lycaenidae (Hairstreaks)			Frynnus 50	2	
Atlides halesus (Great Purple Hairstreak)			blue 50	6	
Incisalia augustinus (Western Brown Elfin)			Maretia <0	2	
Callophrys perplexa (Perplexing Hairstreak)	1		white so / lance	3	
Strymon melinus (Gray Hairstreak)	<u> </u>		the second for the second seco		
Glaucopsyche lygdamus (Southern Blue)	3	<u> </u>		1	
Icarcia acmon (Acmon Blue)	5		· · · · · · · · · · · · · · · · · · ·	1	
Celastrina ladon (Echo Blue)					
			<u> </u>	1	

Surveyor _	MEAUGH	Segment # th	W 76 Maps	4-8 Date: _	4-26-10
Comments:	GDGC				
	SURVEYED CAST OF	PAGey	. <u> </u>	<u> </u>	
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				-;-	
				-	
Plant Comm	mities and Habitat Info				
	CHAPARRA	L. CSS, GROSSLAN	N, CAK (1000	SOCKX	
Host Plants P	resent: PLANTAGE	, CASTILLELA			
	<u></u>				
	. <u> </u>	······································			<u> </u>
· · · · · · · ·					· · ·
Nectar Plants	Present: Many	· · · · · ·			
			· · · · · · · ·	<u> </u>	<u> </u>
<u></u>					
		• • • • · · · · · · · · · · · · · · · ·		-	· · · · · · · · · · · · · · · · · · ·
🔲 Quino Sigh	ting	Date:	GPS Location	n:	
Photographs T	aken:				
1.		2		3.	
4.		5.		6.	· <u> </u>
7.	· · · · · · · · · · · · · · · · · · ·	8.		9.	
10.		11.		12.	

Location <u>CNF</u>	Survey Segment Maps 9-10
Surveyor Steve Myers	Date 4 May 10 Survey Week Number 2
Survey Partner(s) Chet M. Gaugh	
Total Acres: Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud	SkyWind (range) Temp (F)
Start 1000	0	clear patchy overcast drizzle shower Z-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, Plantaga, Castilleja, Cordylanthus, Antirrhinum, nectar sources>

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

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Surveyor Myers McGaugh Segment # Maps 9-10 Date: 4 May 10 **Comments:** Willow Flycather fitz-bewing (mapped) Coast Horned Lizard Yeller Warpler Yellow-breasted Chat Plant Communities and Habitat Information: Chaparial, ook woodland, meadows Host Plants Present: Castilleje exserta, Plantago erecta Castilleje abundant (plabably millions of planta) Nectar Plants Present: Lasthenia, Dichelestema, Cryptuntha, Red Mards, Chia Nectar plants abundant Quino Sighting Date: **GPS** Location: Photographs Taken: 1. 2. 3. 4. 6. 5. 8. 7. 9. 10. 11. 12.

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Location MARS Surveyor MC	CAUCH, MYERS	Survey Segment Date <u>5-3-10</u> Survey Week Number <u>2</u>
Total Acres:	Portion Surveyed:	Elevation: Max Min

Time (24 hr)	Cloud	the set of the set of the set	- SRy			Wind (range)	Temp (F)
Start \ [CO	6	clear patchy	overcast	drizzle	shower	13	7es
220	0	clear patchy	overcast	drizzle	shower	<-L!	~3°
1310	ð	clear patchy	overcast	drizzle	shower	2.5	730
1415	0	clear patchy	overcast	drizzle	shower	3.6	-75 °
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower	-	
Stop 1690	0	clear) patchy	overcast	drizzle	shower	2.8	740

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

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

Surveyor MUGAUG	<u>H</u> Segment # <u>N</u>	WP 28-34	Date: <u>5-3-70</u>
Comments:			
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Plant Communities and Habita	<u> </u>		
	Chapanel		
(	327 wood band		
	Willow M Jarden		
	small madewir		
	• • • • • • • • • • • • • • • • • • •		
Host Plants Present: CAST	UELA/MARRO)		· · · · · · · · · · · · · · · · · · ·
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	· · · · ·		
Nectar Plants Present:	NFINKTAN		
ŝĿ	ce Dicks		
<u>6</u> }	coltifulin	. <u></u>	
kon Na	NS SIP. LUON CONNES, 70 STA	·	
	Date:	GPS Location	•
Quino Sighting		Gro Location	•
Photograph - Talaa			
Photographs Taken:			
1.	2		<u>3.</u>
4.	5.		- ··· · ···
7.	8.		9.
10.	11	·	12.

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Quino	Checkerspot General Form	
	A	

Location Surveyor Survey Parti		Peak 7. Laurie Goin	-Ch Date 5/4	vey Segment <u>Maps</u> b Survey Week	30,31,32 Number 2	2,34
Total Acres	Portion	Surveyed:		Elevation: Max	Min	

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start D840	03	dear patchy overcast drizzle shower	0-3mph.	71.2ºF
0950	61,	clear) patchy overcast drizzle shower	3-bmph	70.4°F
0011	07	clear patchy overcast drizzle shower	4-8mh	67.630 F
1220	07.	clear patchy overcast drizzle shower	4-8mph	76.6°F
V		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
Stop 1310	01.	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)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Bastlarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		1
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	4	1
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		. <b>.</b>
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		_	Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	1		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:	-	
Erynnis propertius (Propertius Duskywing)			VANGSSA So	2	
Ochlodes agricola (Rural Skipper)			DUSKULILLOR SO	3	5
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)	2	1		_	
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)		t			
Icarcia acmon (Acmon Blue)	- 7				
Celastrina ladon (Echo Blue)	14	10			

Surveyor RobFlether/ auna Coma Segment # 30-32 +34 Date: 5/4/16 BRINDENC 30/31/37: Mon bast up the Comments: INARIN Ants present & very Few her the SAIN ORICIGI PRESENT Plant Communities and Habitat Information: Fire Cloveng (Mapana (Maps 30, 31, 32) CMPANAL / COASt Me OAK WOOD and (D24) Host Plants Present: CASEXE + COR RIG : But Found in Ripana / CLOW Nectar Plants Present: Erolium SP, U Dunariak SD. HIDINC, SALCLE ariobath eagre UDTSTR. AFOL SIDMAL, GILANG, LUPBIC W, 🔲 Quino Sighting 🧁 Date: **GPS Location:** Photographs Taken: L 1. 2. 3. 4. 5٠ 6. 7. 8. 9. 10. 11. 12.

Quino Checkerspot (						Α	dult Surve	y NY
Location Desc	ers0	Boulder Cree	KA Sur	vey Segment_	Maps 3	0,3435,	368	enerty
Surveyor Laure	. Gormar	, Nate	Date 5-5	-10 Sur	vey Week Nu	umber	Ĩ	1 od
Survey Partner(s)		Móorha	tch					4
Total Acres:	Portion Surve	eyed:		Elevation: N	vlax	Min		-

Time (24 hr)	% Cloud		Sky			Wind (range)	Temp (F)
Start 0836	07.	clear) patch	y overcast	drizzle	shower	0-3 mph	68 °F
1303	01.	clear patch	y overcast	drizzle	shower	3-6 mph	849F
		clear patch	y overcast	drizzle	shower		
	-	clear patch	y overcast	drizzle	shower		
		clear patch	y overcast	drizzle	shower		
		clear patch	y overcast	drizzle	shower		
Stop 350		clear patch	y overcast	drizzle	shower	0-5mph	_77°F

Habitat onsite (circle as applicable), hilltops ridges,) ock outcrops open soils soil crusts, clay soils old roads, Plantago, Castilleig, Cordylanthus, Antirrhinum, actar sources

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)	<u> </u>	
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	<u></u>	
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	11	
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	<u>h</u>	L
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae		<u> </u>	Anthocharis sara (Sara's Orangetip)	"Lurry	K
Danaus gilinnus (Oueen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)	-31		Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)		1	Colias harfordii (Harford's Sulphur)	1	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)	11		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		<u> </u>
Erynnis propertius(Propertius Duskywing)			unidentified skipper		
Ochlodes agricola (Rural Skipper)		n	Erunnis so.		1
Lycaenidhe (Hairstreakš)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	1111				
Strymon melinus (Gray Hairstreak)					<u> </u>
Glaucopsyche lygdamus(Southern Blue)	HH				
Icarcia acmon (Acmon Blue)	HH	1			
Celastrina ladon(Echo Blue)		1			

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Surveyor <u>LG+N.4</u> Segment # <u>Maps 30, 34-36</u> Date: <u>5-5-10</u>

Comments:	
comments:	
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lant Communities and Hab	itat Information:
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Host Plants Present:	
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	Sidalcen malvaeflero
Nectar Plants Present: (	ptarmarsp. Erodim sp. Plagisbothys, Canissonia SP. Lucinis.
istard, Cercocarous 4	etuloides, Clastonia perfoliata, Endur circularim Ceonomus
leucodermis, hicca u	
Canissonia californica	Phacilia parry it Trifs hum his rum Tri chostene Innerolata.
MANAGER Dicholoster	and capitation Signaturaching belling lothing withis thoughting
Quino Sighting	Date: GPS Location: Amsuchia meaning Sil, 12 Cara
	1 stills 50, bindweed chip
hotographs Taken:	
·	2. Minute Stiden of Reclina scalifornica
ļ	5. Gorn 6. Lostis Superios
<u>.</u>	8. Chi lope ligh warshi
0.	11. <u>11.</u> <u>11.</u> <u>12.</u> <u>14.</u> <u>29.</u>
	Unit lest with Penstemon spectrubilitis Castillest with a cartia purpurea
	asting to charter purpured
	AStructure pectocarya SP-
	1 AS Penstenion centrathi

Location <u>Map 3 3, 9 Description</u> Survey Segment ______ Surveyor NK _____ Date <u>05 May 10</u> Survey Week Number _____ Survey Partner(s) <u>J6</u> _____

Total Acres: _____ Portion Surveyed: ____

Elevation: Max

Min

Ťime (24 hr)	% Cloud			- Sky	م الم الم الم الم الم ريد وريخه خبر المدر ال		Wind (range)	Temp (F)
Start 085)		clear	patchy	overcast	drizzle	shower	,	63
		clear	patchy	overcast	drizzle	shower	3- 7	71
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcist	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		 
		clear	patchy	overcast	drizzle	shower		
Stop /440		clear	patchy	overcast	drizzle	shower	2-5	77

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

Butterfly Species	Count (Total)	Hill- topping	Butterly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		-	Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		L
Euphydras chalcedona(Chalcedon Checkerspot)		_	Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	1 M		Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	<u> </u>	Į
Basilarchia lorguini(Lorquin's Admiral)		[	Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)	1		Papilio eurymedon(Pale Swallowtail)	1	
Vanessa annabella(West Coast Lady)	· · · · · · · · · · · · · · · · · · ·		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)		<u> </u>	Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)		<u> </u>	Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Dahaidae		·	Anthocharis sara (Sara's Orangetip)		
Danaus gilippus(Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme(Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		ļ
Hylephila phyleus(Fiery Skipper)		1	Eurema nicippe (Sleepy Orange)		
Pyrgus albescens(White CheckeredSkipper)		-	Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		1	OTHERS:		
Erynnis propertius (Propertius Duskywing)			Bhu pu	11/	
Ochlodes agricola(Rural Skipper)					
Lycaenidae (Hairstreaks)					<u> </u>
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)	]				1
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)		<u> </u>			<u> </u>
Glaucopsyche lygdamus(Southern Blue)				_	<u> </u>
Icarcia acmon (Acmon Blue)	10				
Celastrina ladon(Echo Blue)	)				
					l

Surveyor <u>NK + 56</u>

Segment # 1923 41 4 part 1 Date: 05 May ....

Comments: Map 33 met car a the	- Very lay 1 butter line	ount
Comments: Map 33 must have been	······································	
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Bland Communities and Habitat Inform		a 12
Plant Communities and Habitat Inform	(auon: M M M M M M M M M M M M M M M M M M M	
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Host Plants Present:	1 yelle Small #35 - Pla. tage	and the fine limpote which haven
a constant a constant		
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Nectar Plants Present:		
Nectar Plants Present:	1. alience pro letting Chip	e.c., Crupt. Er. c.a., Rhus trug
1. 12 de la company the Mille Carpent	- Charles Charles	in Pappinish 1th standing Syd. bel.
the spring to a spring to a Dich can	Section of the link to	Sciar and Sciar cel
	All a free to the second	
Quino Sighting D	ate: GPS Loc	ation.
	au. GröLu	······································
Photographs Taken:		
1.	2.	3.
	······································	6.
4	5.	
7.	8	9.
10.	11.	12.
<u> </u>		

Location <u>MAPS</u> Surveyor <u>N. KIN</u> Survey Partner(s)					·		
Total Acres:	Portion Surv	veyed:	<u>}                                </u>	E	levation: N	lax Min	
Time (24.hr)	% Cloud		Sky			Wind (range)	Temp (F)
Start 0915	0	(clear) patchy				1-2 ruph	66°F
1211	0	clear) patchy	overcast	drizzle	shower	1-3 Mph	75'7
1450	0	clear patchy	overcast	drizzle	shower	1-Smph	83°F
	+	clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower		
Stop		clear patchy	overcast	drizzle	shower		**** <u></u>

Adult Survey

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

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		:	Everes amyntula (Western TailedBlue)		
Phycoides mylitta(Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Į	Apodemia mormo (Mormon Metalmark)	N N I	L
Basilarchia lorquini(Lorquin's Admiral)		[	Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	2	L
Vanessa annabella(West Coast Lady)	9 A		Papilio rutulus (Western Tiger Swallowtail)		ĺ
Vanessa atalanta(Red Admiral)	· · · ·		Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	9	<u> </u>	Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	(SA)	
Danaus gilippus(Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)	NA	
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			BLUE SP.	<del>مسر</del> ۹ در	
Ochlodes agricola(Rural Skipper)			ERVIN'S SD.	7	
Lycaenidae (Hairstreaks)			VANESSA SD.		
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					ļ
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue)	.e. X			_	
Celastrina ladon(Echo Blue)	7				

Surveyor N. KIMB. M. WILC				
	<u> </u>			· · ·
Comments:				
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CORA CARI WI		HA STANS		
BCSD SA	SMA LVA F	SCEL ORC		· · ·
		SCEL ORC		· · · · ·
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WEST			<u> </u>	· · · · · · · · · · · · · · · · · · ·
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Plant Communities and I		,,,,,,,		<b>.</b> .
		· · · · · · · · · · · · · · · · · · ·		
Host Plants Present: C.	ASTILLYA	EXERTA, DLA	VTZGO BREZ	
Host Plants Present: C.	AST, ILEJA	· · · · · · · · · · · · · · · · · · ·		
Host Plants Present: C	AST, (IEJA	· · · · · · · · · · · · · · · · · · ·	VTAJO BREZ	A
Host Plants Present: C.	4stilleja	· · · · · · · · · · · · · · · · · · ·		A.
· · · · · · · · · · · · · · · · · · ·			i	
ERIOD CRASS, ME	EL INDI, F	VERICIUM Sp., C	i	
ERIOD LRASS, ME	EL INDI, F	MARRY VIL	i	CALO SDLENG
ERIOD LRASS, ME JEON LEV, GNADM Nectar Plants Present: F	EL INDI, 1 AUUMSP BLUE DICK	HERICIUM SD. C MARRU JULZ MAMISSINA S	ERCIUM SP, CASTAPPIN	CALO SDLENG
ERIOD LRASS, ME JEON LEV, GNADM Nectar Plants Present: F	EL INDI, F ALUEDICK ARIDS, LI	MARRO VULZ MARRO VULZ MMISSINA S DINUS BICOLE	ERCIVM SP, C HICASTAPPIN D. LOTUS SP.( R, CALYSTE	CALO SPLEND NIS, MARAH M SM, Dr/VEN) QIA MACROSTEG
ERIOD CRASS, ME LEON LEV, GNADM Nectar Plants Present: F CIRCIVM, MUST BALCOL, YUC W	EL INDI, 1 AUUMSP BLUE DICK ARIDS, LU IHID, CRI	ERICIUM SD. C MARRU VULC MMMISDINA S DINUS BICOLL (D SD. SNS BE	ERCIVM SP, C HICASTAPPIN D. LOTUS SP.( R, CALYSTE	CALO SDLEND NIS, MARAH M SM, DY (Yell)
ERIOD LRASS, ME WEON LEV, GNADM Nectar Plants Present: F CIRCIUM, MUSTO	EL INDI, 1 AUUMSP BLUE DICK ARIDS, LU IHID, CRI	ERICIUM SD. C MARRU VULC MMMISDINA S DINUS BICOLL (D SD. SNS BE	ERCIUM SP. C LERCIUM SP. C LOTUS SP. C R. CALYSTE -, ERIO CIN,	CALO SPLEND NIS, MARAH M SM, Dr/VEN) QIA MACROSTEG
ERIOD LRASS, ME ECON LEV, GNADM Nectar Plants Present: F CIRCIUM, MUST BALCOL, YUC W ERICONF, CHAES STINGING, CAST	EL INDI, 1 AUUMSP BLUE DICK ARIDS, LU IHIP, ERIOF	MARRI VILZ MARRI VILZ MARRI VILZ MMISSINA S DINUS BICOLL (P SP. 549 BE ASC, WOOLY BI	ERCIUM SP. C LERCIUM SP. C LOTUS SP. C R. CALYSTE -, ERIO CIN,	CALO SPLEND NIS, MARAH M SM, Dr/VEH) ALA MACROSTEG ALLIUM SIL GAO EL SP, LUP (404
ERIOD LRASS, ME EDIN LEU, GNADM Nectar Plants Present: F CIRCIUM, MUST BALCOL, YUC W ERICONF, CHAES	EL INDI, H ALUE DICK ARIDS, LU IHIP, CRI SP., ERIOF SP. (NOT O	MARRU JULZ MARRU JULZ MMISSILIA S DINUS BICOLL JP SP. SUS BE ASC, WOOLY BI MLS CLONER, P	ERCIVM SP, C LERCIVM SP, C LOTUS SP. ( CAST AFFIN LOTUS SP. ( CALYSTE - ERID CIN UE CURLS HI	CALO SPLEND NIS, MARAH M SM, Dr/VEH) ALA MACROSTEG ALLIUM SIL GAO EL SP, LUP (404
ERIOD LRASS, ME EDN LEV, GNADM Nectar Plants Present: F CIRCIUM, MUST BALCOL, YUC W ERICONF, CHAES STINGING), CAST	EL INDI, H ALUE DICK ARIDS, LU IHIP, CRI SP., ERIOF SP. (NOT O	MARRU JULZ MARRU JULZ MMISSILIA S DINUS BICOLL JP SP. SUS BE ASC, WOOLY BI MLS CLONER, P	ERCIVIN SP. C ERCIVIN SP. C LOTUS SP. ( C. LOTUS SP. ( C. CALYSTE -, ERIO CIN, US CURLS HI LAC PAR, LOT:	CALO SPLEND NIS, MARAH M SM, Dr/VEH) ALA MACROSTEG ALLIUM SIL GAO EL SP, LUP (404
ERIOD LEV, GNADM Nectar Plants Present: F CIRCIUM, MUST SALCOL, YUC W ERICONF, CHAES STINGING, CAST Quino Sighting	EL INDI, H ALVE DICK ARIDS, LU INIID, CRI SP., ERIOF SP. (NOT O	MARRU JULZ MARRU JULZ MMISSILIA S DINUS BICOLL JP SP. SUS BE ASC, WOOLY BI MLS CLONER, P	ERCIVIN SP. C ERCIVIN SP. C LOTUS SP. ( C. LOTUS SP. ( C. CALYSTE -, ERIO CIN, US CURLS HI LAC PAR, LOT:	CALO SPLEND NIS, MARAH M SM, Dr/VEH) ALA MACROSTEG ALLIUM SIL GAO EL SP, LUP (404
ERIOD LEV, GNADM Nectar Plants Present: F CIRCIUM, MUST SALCOL, YUC W ERICONF, CHAES STINGING, CAST Quino Sighting	EL INDI, H ALVE DICK ARIDS, LU INIID, CRI SP., ERIOF SP. (NOT O	MARRY JULZ MARRY JULZ MARRY JULZ DINUS BICOLD JDINUS BICOLD JD SP. 543 BE ASC, WOOLY BI MLS CLONER, P	ERCIVM SP, C LERCIVM SP, C LOTUS SP. ( CAST AFFIN LOTUS SP. ( CALYSTE - ERID CIN UE CURLS HI LAC PAR, LOTS GPS Location:	CALO SPLEND NIS, MARAH M SM, Dr/VEH) ALA MACROSTEG ALLIUM SIL GAO EL SP, LUP (404
ERIOD LEV, GNADM Nectar Plants Present: F CIRCUM, MUST SALCOL, YUC W ERICONF, CHAES STINGING, CAST Quino Sighting Photographs Taken: 1.	EL INDI, H ALVE DICK ARIDS, LU INIID, CRI SP., ERIOF SP. (NOT O	ERICIUM Sp. C MARRU VULZ AMMISSINIA S DINUS BICOLLY JD SD. SUS BE ASC, WOOLY BI WLS CLOVER), P Date: 2.	ERCIVM SP, C CASTAPPIN LOTUS SP. ( CASTAPPIN LOTUS SP. ( R, CALYSTE - ERID CIN, UE CURLS HE LAC PAR, LOT: GPS Location: 3.	CALO SPLEND NIS, MARAH M SM, Dr/VEH) ALA MACROSTEG ALLIUM SIL GAO EL SP, LUP (404
ERIOD CRASS, ME ERIOD CRASS, ME Nectar Plants Present: F CIRCIUM, MUST SALCOL, YUC W ERICONF, CHAES STINGING, CAST Quino Sighting Photographs Taken: 1. 4.	EL INDI, H ALVE DICK ARIDS, LU INIID, CRI SP., ERIOF SP. (NOT O	ERICIUM S.D., C MARRY JULZ MMISSINA 5 DINUS BICOUS (D S.D. SNS BE ASC, WODLY BI MLS CLOVER.), P Date: 2. 5.	ERCIVM SP, C CASTAPPIN LOTUS SP. ( CASTAPPIN LOTUS SP. ( CALYSTE -, ERID CIN, UE CURLS, HI HAC PAR, LOTS GPS Location: 3. 6.	CALO SPLEND NIS, MARAH M SM, Dr/VEH) ALA MACROSTEG ALLIUM SIL GAO EL SP, LUP (404
ERIOD LEV, GNADM Nectar Plants Present: F CIRCIUM, MUST BALCOL, YUC W ERICONF, CHAES STINGING, CAST Quino Sighting Photographs Taken:	EL INDI, H ALVE DICK ARIDS, LU INIID, CRI SP., ERIOF SP. (NOT O	ERICIUM Sp. C MARRU VULZ AMMISSINIA S DINUS BICOLLY JD SD. SUS BE ASC, WOOLY BI WLS CLOVER), P Date: 2.	ERCIVM SP, C CASTAPPIN LOTUS SP. ( CASTAPPIN LOTUS SP. ( R, CALYSTE - ERID CIN, UE CURLS HE LAC PAR, LOT: GPS Location: 3.	CALO SPLEND NIS, MARAH M SM, Dr/VEH) ALA MACROSTEG ALLIUM SIL GAO EL SP, LUP (404

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Location CNF Page 40-39	Survey Segment Pg 41
Surveyor John Green	Date 5 May 10 Survey Week Number 22
Survey Partner(s) Total Acres: Portion Surveyed: 2730/2-	2730 31 Elevation: Max Min

Time (24 hr)	% Cloud			Sky			Wind (rauge)	Temp (F)
Start 1130	$\mathcal{Q}$						0,6949, 3.4 Max	7.4°
1440	25						2.2 avg. AGONG	
		clear	patchy	overcast	drizzle	shower		
<u> </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)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot) 11	3		Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiona (Mourning Cloak)		,	Apodemia mormo (Mormon Metalmark)		
Basilarchia lorguini(Lorguin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	1	
Vanessa annabella(West Coast Lady)		·	Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)		<u> </u>	Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae		1	Anthocharis sara (Sara's Orangetip)	3	
Danaus gilippus(Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		1.	Pontia protodice(Checkered White)		 
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)		1,	Colias harfordii (Harford's Sulphur)		<u></u>
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		<u> </u>
Pyrgus albescens (White Checkered Skipper)		1	Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Crangetip Sp. 11	2	
Ochlodes agricola(Rural Skipper)			blye SP. HAT	()	
Lycaenidae (Hairstreaks)			Durchywing spell!	4	
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)			Lady 1	1	
Callophrys perplexa(Perplexing Hairstreak)			White spill	2	
Strymon melinus (Gray Hairstreak)			4		<b>_</b>
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue)	4				<u> </u>
Celastrina ladon(Echo Blue)	3	1			

Surveyor John Co	een Segment #_ Pg	, <del>(fi)</del> D	Date: _ <u> </u>	
Comments:			·	humm
	TO HOWR CATH			1100104
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NIWA dead under lines			· -····	
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Plant Communities and Ha	aditat finormation;			
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Host Plants Present: Plan	lago pat.			
Host Plants Present: Plant Nectar Plants Present: Plant	ios, Eradium, Chaparrel Per, Leand	Loss, Sugar bush Minu		
Host Plants Present: Plant Nectar Plants Present: Play Suncups, Chin. Phaging 22	103, Eradium, Chaparral Per, Leand Blue Dicks, Lows annual, Red Mai	Loss, Sugar bush Minu		
Host Plants Present: Plant Nectar Plants Present: Play Suncups, Chia. Phagia 22 Irma. fasc. Stanna Lugine	103, Eradium, Chaparral Peo, Leand Blue Dicks, Lows annual, Red Main (Incon Mussionds, Lup. bicenter.	Loss, Sugar bush Minu		
Host Plants Present: Plant Nectar Plants Present: Play Suncups, Chia. Phagia 22 Irma. fasc. Stanna Lugine	103, Eradium, Chaparral Peo, Leand Blue Dicks, Lows annual, Red Main (Incon Mussionds, Lup. bicenter.	Loss, Sugar bush Minu		n/a
Host Plants Present: Plan Nectar Plants Present: Plan Suncups, Chin, Phagina 42. Iring, fas., Strying Lupine, Dandellon, Waell, Blue Curls, G	105, Erodium, Chaparral Per, Leand Blue Dicks, Lolys annal, Red Main (ncon, Musiconds, Lup. Grapher, old. Yarrishy, Rock Laturi	Loss, Sugar bush Minu		
Host Plants Present: Plan Nectar Plants Present: Plan Suncups, Chin. Phagina X2. Iring, fas., Stuging Lupine Dandellon, Ward, Blue Curls, G. Condellon, Alling Q seep 1	ios, Eradium, Chaparral Pin, Leand Blue Dicks, Loius annal, Red Main Incon, Musiconds, Lup. Licolar, old. Yanimy, Rock Laturi, Solow 273013, Minudus aur.	Loss, Sugar bush Minu		
Host Plants Present: Plan Nectar Plants Present: Plan Suncups, Chin, Phage 12, Irugs, fas., Stuging Luping Dandelton, Warl, Blue Curls, G	105, Erodium, Chaparral Per, Leand Blue Dicks, Lolys annal, Red Main (ncon, Musiconds, Lup. Grapher, old. Yarrishy, Rock Laturi	Lors, Sigar bust, Minu 13		
Host Plants Present: Plan Nectar Plants Present: Plan Suncups, Chin. Phagina 42. Iring, fas., Stuging Lupine, Dandellon, Waell, Blue Curls, G. Crystanthas, Allan @ seep of Quino Sighting	ios, Eradium, Chaparral Pin, Leand Blue Dicks, Loius annal, Red Main Incon, Musiconds, Lup. Licolar, old. Yanimy, Rock Laturi, Solow 273013, Minudus aur.	Lors, Sigar bust, Minu 13		<pre></pre>
Host Plants Present: Plan Nectar Plants Present: Plan Suncups, Chin. Phagina X2. Iring, fas., Stuging Lupine Dandellon, Ward, Blue Curls, G. Condellon, Alling Q seep 1	ios, Eradium, Chaparral Pin, Leand Blue Dicks, Loius annal, Red Main Incon, Musiconds, Lup. Licolar, old. Yanimy, Rock Laturi, Solow 273013, Minudus aur.	Lors, Sigar bust, Minu 13		·····
Host Plants Present: Plant Nectar Plants Present: Plant Suncups, Chin. Phagina 22. Ling, fas., Stuging Lupine Dandellan, Waol, Blue Curls, G. Conductions, Allang @ seep of Quino Sighting	ios, Eradium, Chaparral Pin, Leand Blue Dicks, Loius annal, Red Main Incon, Musiconds, Lup. Licolar, old. Yanimy, Rock Laturi, Solow 273013, Minudus aur.	Lors, Sigar bust, Minu 13		n/a
Host Plants Present: Plan Nectar Plants Present: Plan Suncups, Chin. Phantia #2. Iring, Fas., Stuging Lupine, Dandellar, Waal, Blue Curls, G Cryptic Mas., Alling © seep 0 Quino Sighting Photographs Taken: 1.	105, Erodium, Chaparral Per, Leand Blue Dicks, Lolys annal, Red Main (neca, Musterds, Lup. Lieuter, old. Yansty, Rock Laters, Kelow 273013, Minudus aur. Date:	Less, Sugar bush, Minue 13 GPS Location:		
Host Plants Present: Plan Nectar Plants Present: Plan Suncups, Chin, Phagina 22. Irong, fas., Strying Lupine, Dandellar, Ward, Blue Curls, G Considerations, Alling © seep ( Dunio Sighting Photographs Taken:	ago pat. 105, Eradium, Chaparel Ren, Leand Blue Dicks, Loius annal, Red Main (neca, Musicud, S. Lup, Geoder, old. Yanow, Rock Laturi, Science 273013, Minudus aur. Date: 2.	Loss, Sugar bush, Minue Az GPS Location: 3.		

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Map 42-44

**Adult Survey** 

Location Pls(an Surveyor 16661	SO CA MAN-CO	GI	Date	Survey Segr	nent <u><i>TLL25</i></u> Survey Week Numbe	r # 2
Survey Partner(s) D Total Acres:	Portion Surv	- AME( reyed: Pol & 272	957-2	17907 Elevat	-	
Time (24 hr)	% Cloud		Sky		Wind (range	) Temp (F)
Start 103D	15	clear natchy	vercast	drizzle sho	wer 3-landa	1504

Start /030	5%	clear patchy overcast drizzle shower 3-6mph 75%
1220	20%	clear patchy overcast drizzle shower 3-6 78'
1450	30%	clear patchy overcast drizzle shower 3-6 15.6
1615	40%	clear patchy overcast drizzle shower 3-4 78.5°
		clear patchy overcast drizzle shower
		clear patchy overcast drizzle shower
Stop		clear patchy overcast drizzle shower

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

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbti (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		-
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)	1	_	Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)	17	-
Danaidae			Anthocharis sara (Sara's Orangetip)	17	10
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	3	2	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)	1	-	Behrs Metal Mark	19	5
Ochlodes agricola (Rural Skipper)			LANDSO	17	-
Lycaenidae (Hairstreaks)			Blue Sp.	1	-
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)		<u> </u>			
Icarcia acmon (Acmon Blue)	17	10			
Celastrina ladon (Echo Blue)		]			

map 12-44 Cob Adda T1625 Segment #____ Date: 4/ 27/12 Surveyor MOS Comments: 1 in Privet Dailel Jert ant Ino.S.L. ave innik an on Phtles Ino in Sinh Plant Communities and Habitat Information: Man DCSS wind M Chapana and TEAW Some ODIM. à Host Plants Present: patches of CAS ESSE ZOCANIC throughout Survey arch oming no in Olhized phu Nectar Plants Present: Erh HIUN RAGI Obothmas Chmissoniaso. MADLANGGER LOT ATCG, AMSMEN STR PICLAP 107(<u>07)</u> PUAGE EVE WIL M SAL GNACAL, APUT ALEU. λL M `H_XAN D. PHAPAT ASCAL: VIOPEN, LOTSC Quino Sighting Date: **GPS Location:** Photographs Taken: DMCtook lots of Dics 1. 2. 3. 4. 6. 5. 8. 7. 9. 10. 11. 12.

#### Adult Survey

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Location <u>MAPS 42 - 44</u> Survey Segment <u>David Kitk</u> Date <u>4/27/10</u> Survey Week Number <u>1</u> /2 Survey Partner(s) 30b Flecton	(poly 1465# 5.00
Total Acres: Portion Surveyed: Poly 27295 6 -16 3853 Elevation: Max Min	cnit see # 5

Time (24 hr)	% Cloud		Sky		Wind (range)	Temp (F)
Start 10 30	.0	clear patchy o	vercast drizzle	e shower ·	1-6 avi4	718 / 75 41
1220	0	clear patchy o	vercast drizzle	e shower	1-6 9142	78, 176:10
1450	TO.O	clear patchy o	vercast drizzle	e shower	2-6 944	764 17541
1615 END	OHAZ	(leap) patchy o	vercast drizzle	e shower	0-6	788 /769
		clear patchy o	vercast drizzle	e shower		
		clear patchy o	vercast drizzle	e shower		
Stop		clear patchy o	vercast 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 See Shee	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies) (Combind)	)		Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa(Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		•
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		L
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		<u> </u>
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		<u> </u>
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis trislis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					<u> </u>
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)				_	ļ
Strymon melinus (Gray Hairstreak)			· · · · · · · · · · · · · · · · · · ·		
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon(Echo Blue)					

Segment # MOMS 42-44 Date: 4/27/10 Surveyor King Comments: Unific to alless Pilos 272958-272952-access through grands & form Thrashy vaids or ain house - clear calm we this, but seem by few but publics out Plant Communities and Habitat Information: 272988 - 272 211 southing mines that Don chanice with patch Of Coastal save save dom Eriogen facsiculum - dense but with strong and Adamiden & cuiss red is ungesting in will Flow. Host Plants Present: Continues set / patchen castoline reporter, Prinches in ut by cande nccess Dd. edges from 292944 to 272925 From (cant red on mos W. ede of Ridd - W. edge & map 44 - cordsland spront on all dirt roals + open and not have begt much Similar delicite) Vincen whip **Nectar Plants Present:** clarkin st ( Rhus int Clarkin (25pp.) Dichilosterm Put harspp AmsinKing, Bagiobolmon FPP 6naftinim Lotas sail Erolim bothrys Brand Strate - m Trifohim milldonari claydonarst. (yellow astron danylow - like) Erria ( 41 mm) - (Time bicston, lange -) . Physicher prandifie Psylostechna sp Clarken purp Chia Calgadring Inc. Cluster **GPS Location: Quino Sighting** Date: anydingis 6 Jan Aschynia ewlifi alugar openo **Photographs Taken:** Painternet 2. 1. 3. to st fac a co 6. Pendunc 4. 5٠ VINIG material Vicia el. Calocher spins 8. 9. 7. 11. 12. 10.

Location Surveyor Survey Partner(s) Total Acres:	DICING DICING COIL Portion Surv	eyed: Att	Th fis	Date de To 574	<b>₩37</b> €	Segment_ Surv PC levation: N vn nee	vey Week Nu yo <i>ks v 4/4</i> Max	Min_	<b>4</b> 	
Time (24 hr)	% Cloud			Sky	ريا جريله جو ا	- tea - 20	Wind (r	1	Temp (F	)
Start 1535	570	clear (	satchy	overcast	drizzle	shower	0-9	40.7	626/6	4A'r
EN 1714	50	clear A	patchy	overcast	drizzle	shower	2-5	m/h	628 /	54 njr
		clear j	patchy	overcast	drizzle	shower				
		clear	patchy	overcast	drizzle	shower		_		
		clear	patchy	overcast	drizzle	shower				
		clear	patchy	overcast	drizzle	shower				
Ston	-	clear	natchy	overcast	drizzle	shower				

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

no buttufung, 702 Butter Ily Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- töpping
Nymphalidae (Brush Footed Butterflies)		<u> </u>	Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western PygmyBlue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)	<u> </u>	
Nymphalis antiopa (Mourning Cloak)		1	Apodemia mormo (Mormon Metalmark)		 
Basilarchia lorguini(Lorguin's Admiral)			Papilionidae (Swallowtails)		 
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	_	
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthochariscethura (Desert Orangetip)		
Danaidae		ţ	Anthocharis sara (Sara's Orangetip)		 
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		<u></u>
Danaus plexippus (Monarch)		[	Pontia protodice(Checkered White)		<u> </u>
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens(White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		1	OTHERS:		1
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola(Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					_
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue)		<u> </u>	· · · · · · · · · · · · · · · · · · ·		-
Celastrina ladon(Echo Blue)					

Comments: Sang from 571437, south, along access R) Jo last pile Raccoon RSTO SP solve Cashlein ex on hoth siles of R) & in all opened in chop Com multiple before bash my part to end of access Ro 27 (439 - shoulding a 10 de) typicity I Plant Communities and Habitat Information:	
Kill oon Rito BP soft Castilling et on both sites of Ri) & in all opmas in ohip Com multiple before bisht my point to end of alless Ro Oft (14,439 - shoulding a 10 - due) typically I I	
RSTO BP softer Castillion et on both sides of No) & in all opening in ohip from mule due before wilf my point to end of alless no established a point of duel typically I I I I I I I I I I I I I I I I I I I	
Plant Communities and Habitat Information:	
Host Plants Present:	
Nectar Plants Present:	
Lations (p.g. parple   Schig compolized bob at un	
cryphilling sp. / sectocaren have been	
Brassich SP. Erodum Cit Gilene SP	
Wody Lydiner Sien mum	
Quino Sighting Date: GPS Location:	
Distance in Talzani	
Photographs Taken;	
Photographs Taken: 1. 2. 3.	
1.     2.     3.       6.     6.	
2. 3.	

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Adult Survey

Location <u>57133</u> Surveyor <u>Jala</u> Survey Partner(s)	7 to 571433*	Date 3-42-10 Survey Week Number 21
Total Acres:	Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud	Slay		Wind (range)	Temp (F)
Start )545	30%	clear (patchy) overcast dri	zzle shower	0-9,7 avg.	62°
1239		clear patchy overcast dri	zzle shower	0-2, 67	<u>,</u>
·		clear patchy overcast dri	zzle shower	· · · · · · · · · · · · · · · · · · ·	
		clear patchy overcast dri	zzle shower		
· · ·		clear patchy overcast dri	zzle shower		
	h	clear patchy overcast dri	zzle shower		
Okana 1	20	clear matchy overcast dri	zzle shower	0-37 3- 1	577

Stop 30 clear (patchy) overcast drizzle shower 0-3.7.3 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- tòpping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cleak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		ļ
Vanessa annabella(West Coast Lady)	-		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)		_	Papilio zelicaon(Anise Swallowtail)		ļ
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		<u> </u>
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		ļ
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		<b>_</b>
Hesperidae		1	Colias eurytheme (Orange Sulphur)		<u> </u>
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		ļ
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)	_		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			No but all i	_	_
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					<u> </u>
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					+
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue)					
Celastrina ladon(Echo Blue)					

Comments:		
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Plant Communities and Hab	itat Information:	
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Host Plants Present:		
		5710
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Nectar Plants Present: Prick	1. 1	Alarga Copposite Structure Yu
		and the section with Successor and
Broding I shiel Works B		sp. Pripe Line Charling Phase in
- The pertorage we	anissonia instant	<u> 40. 12. pe 11.5</u>
· · · · · · · · · · · · · · · · · · ·		GPS Location:
🔲 Quino Sighting	Date:	GPS Location:
Photographs Taken:		
1.	2,	3
4.	5.	6.
	8.	9.
7.		12.
10.	11.	

Location Man =4.51+5-45-50	Survey Segment
Surveyor WK	Date 13-Apr-10 Survey Week Number 2
Survey Partner(s)	
Total Acres: Portion Surveyed:	Elevation: Max Min

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Time (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)
Start 110 ×	20	clear	patchy	overcast	drizzle	shower	0-1	64
123 0	15	clear	patchy	overcast	drizzle	shower	2 Bull and	<u>68'</u>
	25	clear	patchy	overcast	drizzle	shower	3-5 w/ayor - 13	71
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		1
Stop / Zan ()	20	clear	patchy	overcast	drizzle	shower	3-4	60

Stop 7700 30 clear patchy overcast drizzle snower 9-4 400 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)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta(Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		1
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	1	
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)	1	
Danaidae		T	Anthocharis sara (Sara's Orangetip)	1	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae		1	Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)		T	Colias harfordii (Harford's Sulphur)		L
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		1
Pyrgus albescens (White Checkered Skipper)		1	Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)	IF)		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		1	OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)			Lup. 1 - ma	11:	
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	1'				
Strymon melinus (Gray Hairstreak)					_
Glaucopsyche lygdamus(Southern Blue)	· ·				
Icarcia acmon (Acmon Blue)					
Celastrina ladon(Echo Blue)					

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Comments: Pale 5-tail 12 Window Jacobs and and a start	<u> K. M. C. 158</u>		<u> </u>
<u>iterature sin Endre and a serie serie</u>	a and the	<u> </u>	
Brieda have 21	······		
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Plant Communities and Habita	at Information:	<u></u>	
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	<u> </u>		
Host Plants Present: 2000 (	4	<u> </u>	
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Nectar Plants Present:	La Carro Maria	Disnight Crist	Eridin - Samel
<u> El</u>	En plan i	1 - Can I Tide- 10 S.	and I Sol Barris Epis
mar and the dit in the for	<u>contractor a contractor a cont</u>	for the present and a	, AL Red Bard - albert
California Exercise La series	Situl in Carrier W	Migina	Maril Viola Ist. Gra. J.
Guy was the Amara	w. Thear sin This it	- ga.	
🔲 Quino Sighting	Date:	GPS Location:	······································
Photographs Taken:			······
1.	2.	3.	
	5.	6.	
<u>4</u> . 7.	8.	9.	

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Adult Survey

Location MS 55	from M	anzanifor R)	th fence	Survey	Segment_		$\overline{\Lambda}$	
Surveyor	JAVIU	KING	_ Date _	<u>///s//c</u>	Surv	vey Week Number	Leve .	
Survey Partner(s) Total Acres:	Portion Surv	reyed:	, growd	E is he	evation: N	/ax Min		
Time (24 hr)	% Cloud		Sky			Wind (range)	Temp (F)	
1155 Start Sar 318 braze	20%	clear patchy	overcast	drizzle	shower	0-5 28		6 - 5
1225	20%	clear patchy	overcast	drizzle	shower	1-2	668 56 Air	
1400	30%	clear (patchy)	overcast	drizzle	shower	4-8.	636 61.5 11	
1\$145	1576	clear patchy-	overcast	drizzle	shower	4 - 14 AVE	616 534	
		clear patchy	overcast	drizzle	shower		• /	
		clear patchy	overcast	drizzle	shower			
Stop		clear patchy	overcast	drizzle	shower	L		

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

Segment #____MS 55 ____Nr. Men 4/2 Date: _____/1/3/10 Surveyor King Comments: stanta) of mariand temp 55 et grow to is studied say - hom b-fb data once air haves on trip out, will collect 1230 - have exception continued, insects begining to appen - state b- Ry 52 niselinch Loyote 1250 157 orangin 13 Pocht goptin 1-10005 of Castelian excentry on cat shoke savening NE end Bert Substation on open grow. Co-dom w/ cryptimilter sp. & sporse were EUT. BEGN(Pm) - mappled Anhu Dy cottontan CATO TUVU CORA i 17051at Plant Communities and Habitat Information: Ringwed S. miked chapman -1. . . **Host Plants Present:** Nectar Plants Present: - All blow opport Kockikla (7) Yncca white vose Redminds compositedulls crypton The SPP. communic (+11) PHaluha paralli Places bothys spp. while mithed Er. o Phyllin call F California State California State California State California State California State Remoticabuls 50 Eradium Lit Songeller 10 tas Griftham SPP Marnah melon Solvin colombute Uniz . mt. Cland myta Boek intos Ershalzin cal Lofus scothing Cesathy off. Date: 0~ mg studicy GPS Location: Sm, yollow aster spring bulls **Quino Sighting** Photographs Taken: 3. 2. 1. 6. 5. 4. 9. 8. 7. 12. 11. 10.

Location Pages	055,056,057 5.	of Magzaniksur	vey Segment	
Surveyor John	Green	Date <u>12 A c</u>	Survey Week	Number
Survey Partner(s)				
Total Acres:	Portion Surveyed: 257	7147-257 497	Elevation: Max	Min

Time (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)	1 
Start recen		clear	patchy	overcast	drizzle	shower	G ST	below it	rie /
1850	45	clear	(patchy)	overcast	drizzle	shower	1-4	62.2	
		clear	patchy	overcast	drizzle	shower			
		clear	patchy	overcast	drizzle	shower			
		clear	patchy	overcast	drizzle	shower			_
		clear	patchy	overcast	drizzle	shower			
Stop Stop	20	clear	patchy)	overcast	drizzle	shower	1-5	59.6	

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 (Totul)	Hill- fòpping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		L
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		ļ
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa(Melissa Blue)		İ
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		L
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Clock)			Apodemia mormo(Mormon Metalmark)	·	
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		<u> </u>
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)	_	ļ
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip) :		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper) Htt			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		<u> </u>
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing) (			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Dast 1890 5 A		
Ochlodes agricola(Rural Skipper)			Progery Sp. Ant		
Lycaenidae (Hairstreaks)			Dustrictant		
Atlides halesus (Great Purple Hairstreak)			Sel ( se )		
Incisalia augustinus(Western Brown Elfin)			at its with 11		
Callophrys perplexa(Perplexing Hairstreak)			Brelash Inde Mr.		<u> </u>
Strymon melinus (Gray Hairstreak)					<u> </u>
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon(Acmon Blue)/					1
Celastrina ladon(Echo Blue)					

Surveyor J. Green

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Maps Segment # <u>55, 56, 57</u> Date: <u>13- Sp1-10</u>

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Comments:	······	<u> </u>
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Plant Communities and Habi		
Host Plants Present:		
	No 2 pr. The state of Record Large 2, mand	Mar Alt in Darie Code to a Fred darrend, Mag. ) Reppy Starie, Bill March Vignier, Frank, Mag. )
117-11-1287.2	2 is a part of some	and a love i spp of the hoppy
Rectard, Care, North A. M.		
Per really and Most have a	the first	
	Date:	GPS Location:
Quino Sighting	and the second second second second second second second second second second second second second second second	GPS Location:
Prover for March 1 . North	and the second second second second second second second second second second second second second second second	
Quino Sighting	and the second second second second second second second second second second second second second second second	3.
Photographs Taken:	Date:	3. 6.
Quino Sighting Photographs Taken:	Date:	3.

	71-74	•
	10215080	Adult Survey
Survey Segr	nent Map 139	
Date 5-7-10	Survey Week Number	

Location	·
Surveyor La	ine Gorman
Survey Partner(s)	Steve Myers
Total Acres:	Portion Surveyed:

Elevation: Max

Min

1. Time (24.hr)	% Cloud :		Ŋ., ie,
Start 0940	ð⁺/.	clear patchy overcast drizzle shower 4-6 mph 70°F	
1050	07.	clear patchy overcast drizzle shower 4-8mph 72°F	
1300	07	(clear) patchy overcast drizzle shower 2-5 mgh 78°F	-
1420	01	(lear patchy overcast drizzle shower 1-5mp SDF	
1502	0%	(clear) patchy overcast drizzle shower 0-3-ph 83.57	
	•	clear patchy overcast drizzle shower	
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.

Bullerfly Species	Count (Total)	Pini. Mopping	Butterny Species	Count (Total)	Hill- tepping.
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	9		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)	i	
Thessalia leanira (Leanira Checkerspot)	المعيمو .		Riodinidae (Métalmarks) 42.7		1
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	· Sho	5
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		,
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)	1		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip) 11+	HULH	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)	<b>3</b>	
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	III I	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)	· 3:		Colias harfordii (Harford's Sulphur)	$\left[ \right]$	
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	1		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		-
Erynnis propertius (Propertius Duskywing)			Center this to		
Ochlodes agricola (Rural Skipper)			North Pearly Marth	111	
Lycaenidae (Hairstreaks)			(Euchloe martis)		
Atlides halesus (Great Purple Hairstreak)			Crynnis Sp.	l	
Incisalia augustinus (Western Brown Elfin)					4
Callophrys perplexa (Perplexing Hairstreak)			Common Sooty-wing		
Strymon melinus (Gray Hairstreak)			Varisa sp. 7	li l	
Glaucopsyche lygdamus (Southern Blue)	1		Pontia so.	1	
Icarcia acmon (Acmon Blue) 14+1 utt	Ki H	ſ	unidentified blue	4	
Celastrina ladon (Echo Blue)				1	

Surveyor Lewise Gorman + Steve Begment # Mep71-74 Date: 5-7-10 **Comments:** , Great Basin Jage brush Cheparra Plant Communities and Habitat Information: - -Host Plants Present: Collinsia Concolor Nectar Plants Present: Persternon Centranthifolius, Trichostena parishi hasthinia californica Ceonomis Luced Paconia californica Enchalia Constantha SP. Erisphyllum confertifiorium, Comissonia sp. mustard, Amsinckia YUCCA whipplife NZIESII . distans, Gillia capitata Inpinis concinnus, chia Phacelia Sicolon minus Calycosen's parryi, Linanthus lemmonii Plagosothys S. ÷p. E, Quino Sighting GPS Location: Date: Penstemen SPE Chabilis 110 Photographs Taken: DSa 1. 2. 3. dialr ucca 6. 4. 5. . 7. 8. 9. 10. 11. 12,

Adult Survey

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

Time (24 hr)	% Cloud	Siky	Wind (range)	Temp (F)
Start 1010	50	clear patchy overcast drizzle shower	0-2	610
1120	40	clear patchy overcast drizzle shower	0-3	60°
12.30	50	clear patchy) overcast drizzle shower	2-7	60°
1315	30	clear patchy overcast drizzle shower	2-6	640
1400	60	clear patchy overcast drizzle shower	2-5	64°
1450	70	clear patchy overcast drizzle shower	3-10	$\omega^{\circ}$
Stop		clear patchy overcast drizzle shower		un

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

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

Surveyor _									
Comments:									
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Plant Comm	unities and Habi	tat Intorms	277 (273 )						
	diffició una sanos								
INNG, (	Dak woodland	t ook sa	ivannah,	Deerweel	scrub				
NNG, (	Dak woodland	t ook sa	ivannah,	Deerweel	scrub				
NNG., (	Dak woodland	t ook sa	ivannah,	Deerweed	scrub				
NNG, (	Dak woodlaml	t ook sa	ivannah,	Deerweed	scrub				
NNG., (	Dak woodleml	t ook sa	ivannah,	Deerweed	scrub		· · · · · · ·		
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Host Plants	Dak woodlomd Present: Plan	t ook sa	stanah,	11ejs ex54	rta		1 / atr	5 5 10 2 -	
Host Plants	Dak wood low d Present: Plan ts Present: Die	took sa	stanah, sta, Castil	114 js ex54	rta Turicula	<i>posity</i>	`, Lotu	s spp.	
Host Plants	Dak woodlomd Present: Plan	took sa	stanah, sta, Castil	114 js ex54	rta Turicula	<i>pc.ify</i>	`, Lotu	s spp.	
Host Plants	Dak wood low d Present: Plan ts Present: Die	took sa	stanah, sta, Castil	114 js ex54	rta Turicula	<i>pc.ify</i>	`, Lotu	s spp.	
Host Plants Nectar Plant	Dak woodlomd Present: Plow ts Present: Did a callf., Phacelo	t ook sa tago erec helostem a, Salvia o	ta, Castin ma, Lupir colombarias,	Ilejs exsu Nos spp., J Pensteman s	rta Turicula ipectabil		`, Lotu	s spp.	
Host Plants Nectar Plant	Dak woodlomd Present: Plow ts Present: Did a callf., Phacelo	t ook sa tago erec helostem a, Salvia o	stanah, sta, Castil	Ilejs exsu Nos spp., J Pensteman s	rta Turicula	рслі ғ ч 1 *	`, Lotu	s spp.	
Host Plants	Dak woodlomd Present: Plow ts Present: Dia a callf., Phaceli	t ook sa tago erec helostem a, Salvia o	ta, Castin ma, Lupir colombarias,	Ilejs exsu Nos spp., J Pensteman s	rta Turicula ipectabil	<u>роліту</u>	', Lotu	s pp.,	
Host Plants Host Plants Nectar Plant lasthenia Quino Sig Photographs	Dak woodlomd Present: Plow ts Present: Dia a callf., Phaceli	t ook sa tago erec helostem a, Salvia o	ate:	Ilejs exsu Nos spp., J Pensteman s	Tur icula Spectubili pocation:		`, Lotu	s spp.	
Host Plants Nectar Plant Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptotic Asymptot	Dak woodlomd Present: Plow ts Present: Dia a callf., Phaceli	t ook sa tago erec helostem a, Salvia o	avanah, eta, Castin ema, Lupin colombariae, n ate: 2.	Ilejs exsu Nos spp., J Pensteman s	Turicula Spectabili ocation: 3:		<u>, Loto</u>	s s p.p.,	
Host Plants	Dak woodlomd Present: Plow ts Present: Dia a callf., Phaceli	t ook sa tago erec helostem a, Salvia o	ate:	Ilejs exsu Nos spp., J Pensteman s	Tur icula Spectubili pocation:		`, Lotu	s spp.	

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Location Hwy 76.	MADS #-8	Surv	ey Segment	
Surveyor 1	14GNBH	Date <u>&lt;-10</u> -	10 Survey Wee	k Number <u>3</u>
Survey Partner(s)	WILCOX-WAST			
Total Acres:	Portion Surveyed:		Elevation: Max	Min

Time (24 hr)	% Cloud		Sky -		Wind (range)	Temp (F)
Start 1110	76%	clear patchy	overcast) drizzle	shower	1-3	600
		clear patchy	overcast drizzle	shower		
avive loco SIOF		clear (patchy	overcast drizzle	shower		510
		clear patchy	overcast drizzle	shower		
1400		clear patchy	overcast) drizzle	shower		6ilof
		clear patchy	overcast drizzle	shower		
Stop 1530		clear (patchy	overcast) drizzle	shower	4-15	580F

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

Surveyor_MGAUGH

____Date: <u>5-10-10</u>

Comments:			
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Plant Communities and I			
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Host Plants Present:	MANTAGE & CWL'S CLOVEL HUDDEN BY GRASSES	STILL IN ACON ST	Whe BUT AGING
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No star Directo Desconto			
Nectar Plants Present:			·····
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		(DQ L t ⁱ	
Quino Sighting	Date:	GPS Location	•
		····-	
Photographs Taken:			
1.	2.		3.
4.	5.		6.
7	8.		9.
10.	11.	· · · · · · · · · · · · · · · · · · ·	12.

Location MJF	558	Survey Segment	
Surveyor	MCGAUGH	Date Cillo de Mario Survey Weel	Number 3
Survey Partner(s)	)		
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Tin	ne (24 hr)	% Cloud		Sky			Wind (range)	Temp (P)
Start	0930	0	clear) patch	y overcast	drizzle	shower	0-2	700
	;		clear patch	y overcast	drizzle	shower		
			clear patch	y overcast	drizzle	shower		
			clear patch	y overcast	drizzle	shower		
			clear patch	y overcast	drizzle	shower		
			clear patch	y overcast	drizzle	shower		
Stop	1610	Õ	clear) patch	y overcast	drizzle	shower	2-6	680

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

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

Plant Communities and Habitat Information: Claused and a second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second state of the second s	Surveyor _	MCGNUGH	Segment #AB5_5-8	Date: May 5 2010
Plant Communities and Habitat Information: Claymal ord woollowl gather Host Plants Present: Divides Movie with while one for the formation Gather Host Plants Present: Divides Movie with while one for the formation Carter Plants Present: Nectar Plants Present: Nectar Plants Present: Plantes The formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the formation of the forma	Comments:			J
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Chapmel         Gal (wood land         quarter         quarter         Host Plants Present:         Planter         Quino Sighting         Date:         GPS Location:         Photographs Taken:         1.       2.         4.       5.         6.         7.       8.				
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An and and and and and and and and and an	Plant Commu	1)	nation:	
quality and         Host Plants Present:         Plants Present:         Quino Sighting       Date:         GPS Location:         Photographs Taken:         1.       2.       3.         4.       5.       6.         7.       8.       9.			0	· · · · · · · · · · · · · · · · · · ·
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Plantage, Mounauly Maybel, un wetty good Condition         Castillage - previously Maybel         Nectar Plants Present:         Maury         J         Quino Sighting         Date:         GPS Location:         Photographs Taken:         1.         2.         3.         4.         5.         6.         7.         8.		<u>granslaine</u>		
Plantage, Mounauly Maybel, un wetty good Condition         Castillage - previously Maybel         Nectar Plants Present:         Maury         J         Quino Sighting         Date:         GPS Location:         Photographs Taken:         1.         2.         3.         4.         5.         6.         7.         8.				· · · · ·
Plantage, Mounauly Maybel, un wetty good Condition         Castillage - previously Maybel         Nectar Plants Present:         Maury         J         Quino Sighting         Date:         GPS Location:         Photographs Taken:         1.         2.         3.         4.         5.         6.         7.         8.				
Image: Nectar Plants Present:       Mawy         Image: Nectar Plants Present:       Image: Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Sec	Host Plants P			<u>/:</u>
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Photographs Taken:       2.       3.         1.       2.       3.         4.       5.       6.         7.       8.       9.		<u> </u>		
Photographs Taken:       2.       3.         1.       2.       3.         4.       5.       6.         7.       8.       9.	Duino Sigh	ting		
1.     2.     3.       4.     5.     6.       7.     8.     9.			GPS Location	
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4.         5.         6.           7.         8.         9.	Photographs Ta			
	Photographs Ta		2.	3.
10. 11. 12.			5.	

Location <u>CNF</u>	~ `
Surveyor	MCG
Survey Partner(s)	ME
Total Acres:	

eneral Form Maps 9-00 Son Lois Rey River Survey Segment Hiway 76 (hiest) SAUGH Date 5-12-10 Survey Week Number 3 Portion Surveyed: ______ Elevation: Max _____ Min _____

Time (24 hr)	% Cloud	Sity		Wind (range)	Temp (F)
Start 0940	$\odot$	clear patchy overcast drizzle	shower	0-2	61
1(20	.6	clear patchy overcast drizzle	shower	2.6	67
1200	2	clear, patchy overcast drizzle	shower	3-0	69
		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) chilltops ridges, rock outcrops lopen soils, soil crusts, clay soils, cold roads, Plantago, Castilleja)Cordylanthus, Antirrhinum, nectar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- fópping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta(Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	12	
Basilarchia lorguini(Lorquin's Admiral)		-	Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)	4		Papilio eurymedon(Pale Swallowtail)	2	
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	3	
Danaus gilippus (Queen)		}	Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens(White CheckeredSkipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Caravnus Eluc	/	
Ochlodes agricola (Rural Skipper)			Salatar	1	
Lycaenidae (Hairstreaks)			blat so	7	
Atlides halesus (Great Purple Hairstreak)			Variation of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	11	
Incisalia augustinus(Western Brown Elfin)			while ou	11	
Callophrys perplexa(Perplexing Hairstreak)			· · · · · · · · · · · · · · · · · · ·	<u> </u>	
Strymon melinus (Gray Hairstreak)					·
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue)	117				
Celastrina ladon(Echo Blue)	1				

Surveyor	C.M.	SM

Segment # <u>Maps 9-10</u> Date: <u>12-May-10</u>

Comments:			
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Plant Communities and Habita	t Information:		
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Host Plants Present:			
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Nectar Plants Present:			
Quino Sighting	Date:	GPS Location	:
Photographs Taken:		· · · · · · · · · · · · · · · · · · ·	-
	2.		3.
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Adult Survey

Location Map 2	8129 30	34-36		Surve	y Segment		·
Surveyor N. Kim	aball, N. N	loorhated	D	ate <u>5/12/10</u>	Survey	Week Num	ber <u>3</u>
Survey Partner(s)	. <u> </u>	·					
Total Acres:	Portion	Surveyed:			Elevation: Max	<u> </u>	Min

Time (24 hr)	% Cloud		Sky			Wind (range)	Temp (F)
Start 0955	0	clear patch	y overcast	drizzle	shower	2-3 mph	64
1345	0	clear patch	y overcast	drizzle	shower	4-7 mph	87
		clear patch	y overcast	drizzle	shower		
		clear patch	y overcast	drizzle	shower		
		clear patch	y overcast	drizzle	shower		
······································		clear patch	y overcast	drizzle	shower		
Stop 15:05	0	clear patch	y 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)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	-		Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		ļ
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		_	Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)		í	Papilio eurymedon(Pale Swallowtail)	1	
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sata's Orangetip)	HU_	
Danaus gilippus(Queen)			Pieris rapae (Cabbage White)		
Danaus grippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae		1	Colias eurytheme (Orange Sulphur)		
Heliopetes ericetarum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)	11	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)	ļ	<u> </u>
Pyrgus albescens(White CheckeredSkipper)			Satyridae (Satyrids)		<u> </u>
Erynnis funeralis (Funereal Duskywing)	11		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		·	OTHERS:		
Erynnis propertius (Propertius Duskywing)	1		Becker's White	1_	
Ochlodes agricola (Rural Skipper)	ŀ		,	<u> </u>	
Lycaenidae (Hairstreaks)	•				
Allides halesus (Great Purple Hairstreak)				<u> </u>	
Incisalia augustinus(Western Brown Elfin)				1	
Callophrys perplexa(Perplexing Hairstreak)					_
Strymon melinus (Gray Hairstreak)				<u> </u>	
Glaucopsyche lygdamus(Southern Blue)	11				
Icarcia acmon (Acmon Blue) many - M	un				_
Celastrina ladon(Echo Blue)	In				

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Surveyor NK+ NM	Constant # 7	1000 20	Datas 5/12/10
Surveyor <u>102 A 10 M</u>	Segment #_//	10/20 28-21, 30, 34-31	Date: 5/12/10
Comments:			
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Plant Communities and Habitat Info	rmation.		
Train communities and Hussian mos			
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Host Plants Present: Cocou lanth	us rigidus, Castil	leis exserts Co	llinsia
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Vucce estidion P	Papaia Ren Maide Para	/ weight hirson	Hissel income Lasth call 5 incl
Yucca schidisen, Penstenion centruntht. Chia, Mimulus Eriog. Fasc., Sidalcen malvi., Linanthus par	, biseloui, Salvia C	leve., Claytonia,	Achiller mille, Grophy ,
Nectar Plants Present: Eschecholzt	rviflorus, Plantago P	<u>atagonica</u> Cerco <u>ca</u>	chis ver., Castill. affinis, Penst. spect.
Trichostemma parry: Phacelia parryi, 1			Cryptanthe sp. Yuca whip.
Roje Clover, Trifolium wildenovii, Pla	inthe avete Pear	the scapering ring	s Silene callica Anerally avansis
Hypocharis Griophyllum conferti, Cal	ochortus albus Die	Gelostemma capi.	Minulus aurantiacus Blue eyes.
Marah macro, Ceanothus leuco, clart Quino Sighting Erodium botrys.	Kin sp. Sambuchime.	K. Toxicodendion	Lonicera, Rosa cal. Phacelia cie
Quino Sighting Erodium botius.	Date: Blue eyed grass	GPS Location:	Gnaphalium bicolor, Gilia sp.,
Photographs Taken:		······································	
1.	2.		3.
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7.	8.		9
10.	11.		12.

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Ad	ult	Su	rv	ey
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Location Map 3833	Survey Segment Maps 30-33
Surveyor Laune Gorman Survey Partner(s) Nate Moorhatch	Date 5-13-10 Survey Week Number
Survey Partner(s) Nake Moorhatch	
Total Acres: Portion Surveyed:	Elevation: Max Min

ne (24 hr)	% Cloud		Sky	n an the An Area an Ar		Wind (range)	Temp (F)	
0930	0	clear patchy	overcast	drizzle	shower	0 - 2.5 mph	62	
	10%. Min	clear patchy	overcast	drizzle	shower	3-7 moh	74.5°F	
1345	15%. Puin	(lear) patchy	overcast	drizzle	shower	0-3mph		6/ 
. <b>.</b>			overcast	drizzle	shower			"Vezz
		clear patchy	overcast	drizzle	shower			
		clear patchy	overcast	drizzle	shower			
1500	10%	clear) patchy	overcast	drizzle	shower	3-8 mph	68.0°F	
	0730 1241	0730 0 1241 10%. Min 1345 15%. Rui	e (24 hr) % Cloud 0730 O clear patchy 1241 107. This clear patchy 1345 157. This clear patchy clear patchy clear patchy clear patchy	e (24 hr)       % Cloud       Sky         0730       O       clear       patchy       overcast         1241       10%       Clear       patchy       overcast         1345       15%       Clear       patchy       overcast         clear       patchy       overcast       overcast       clear       patchy       overcast	e (24 hr)       % Cloud       Sky         0730       O       clear       patchy       overcast       drizzle         1241       10%       fill       fill       overcast       drizzle         1345       15%       fill       fill       overcast       drizzle         clear       patchy       overcast       drizzle	e (24 hr)       % Cloud       Sky         0730       O       clear       patchy       overcast       drizzle       shower         1241       10%       Clear       patchy       overcast       drizzle       shower         1345       15%       Clear       patchy       overcast       drizzle       shower         clear       patchy       overcast       drizzle       shower	e (24 hr)       % Cloud       Sky       Wind (range)         0730       0       clear patchy overcast drizzle shower       0 - 2.5 mph         1241       10%       fill (range)       0       0         1345       15%       k       0       0         clear patchy       overcast drizzle shower       0       0       0       0         clear patchy       overcast drizzle shower       0       0       0       0       0         clear patchy       overcast drizzle shower       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0<	e (24 hr)       % Cloud       Sky       Wind (range)       Temp (r)         0730       0       clear patchy       overcast       drizzle       shower       0 - 2.5 mph       62         1241       10%       Min       clear       patchy       overcast       drizzle       shower       3 - 7 mph       74.5%         1345       15%       Km       clear       patchy       overcast       drizzle       shower       0 - 3 mph       73.0%       62         clear       patchy       overcast       drizzle       shower       0 - 3 mph       73.0%       62         clear       patchy       overcast       drizzle       shower       0 - 3 mph       73.0%       62         clear       patchy       overcast       drizzle       shower       0 - 3 mph       73.0%       62         clear       patchy       overcast       drizzle       shower       0 - 3 mph       73.0%       62         clear       patchy       overcast       drizzle       shower       0 - 3 mph       73.0%       62         clear       patchy       overcast       drizzle       shower       0 - 3 mph       73.0%       73.0%       73.0%       73.0%

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

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

Surveyor 167 + NM Segment # Maps 30-33 Date: 13-May-10

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<b>Plant Communities and Habitat Inform</b>	nation:	<b></b>	
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Host Plants Present:			
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· Annalysian · · ·			
Neetar Plants Present: Cryptanthe D	challostemme ca	. Eros. cic.	comissionia so YUC WHI
Char MARATAL TET PAR. B	NCEO FOL. SAL	SON MIM	ME Lomation so SIS BET
HYPGLA LOTAS SP. CEOGRE	iematis sp. M	N BIC. UWW	
		a rialo wh	up - Jy ., which is successful,
PENCEN, GILCAP, TRI WIL, NEMM			
🗌 Quino Sighting 🛛 🖸 D	ate:	GPS Location:	· · · · · · · · · · · · · · · · · · ·
Photographs Taken:			
1.	2		3.
4.	5.		6.
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Location M	aps 37+38	Survey Segment	
Surveyor	K & MB	Date 07-May-10 Survey Week Number	r <u>    3     </u>
Survey Partner(s)	·	/	
Total Acres	Portion Surveyed:	Elevation: Max Mi	in

Tin	ne (24 hr)	% Cloud			Sky	s a Second		Wind (range)	Temp (F)
Start	08301	0	clear	patchy	overcast	drizzle	shower	0-1	61 (Air-66)
	0650		clear	patchy	overcast	drizzle	shower	./	
	1150	0	clear	patchy	overcast	drizzle	shower	2-5	87 (4:-79)
			clear	patchy	overcast	drizzle	shower		
			clear	patchy	, overcast	drizzle	shower		
	· · · · ·		clear	patchy	overcast	drizzle	shower		
Stop	1405	0	Clear	patchy	overcast	drizzle	shower	3-5	85(fir-8)

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

Butterfly Species	Count (Total)	hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		L
Charidryas gabbii (Gabb's Checkerspot)	-		Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antlopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	豊き	ļ
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	11	
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	l I		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)		· · · · ·	Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	UHH+++	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)	1	
Danaus plexippus (Monarch)		<u> </u>	Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum(Northern White-Skipper)		· · · · · · · · · · · · · · · · · · ·	Colias harfordii (Harford's Sulphur)	##/1	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	HHTI		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Blue AD.	N.	
Ochlodes agricola(Rural Skipper)			White sp	11	
Lycaenidae (Hairstreaks)	· · ·				
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	II.	1			
Strymon melinus (Gray Hairstreak)	74				
Glaucopsyche lygdamus(Southern Blue)	- Inn	1			
Icarcia acmon(Acmon Blue)	W.			•	
Celastrina ladon(Echo Blue)			· · · · · · · · · · · · · · · · · · ·		
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Surveyor	
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Segment # Maps 37+ 38 Date: 07-May 10

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Plant Communities a	nd Habitat Inform	ation:		
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Host Plants Present:	Cert. ex (bag. to gr	to seal , Cord .	ig. (finely sattle	ed to 1/3 of hill @ Enc
Host Plants Present: Pertion of Mup 38)	Cert. ex. (bag. to gr P. p.t. (bag. to flower	to seal); Cord- ;	ig. (finely seather as cord. ng.); P.	ed to 1/3 of hill @ Emo
Host Plants Present: Portion of Mup 38)	C'est. ex. (bag. to gr P. p.t. (bag. to flance	to seal), Cond.	ig. (finely seather as cord. nig.) ? P.	ed to 1/2 of hill @ Emo
Host Plants Present: portion of Mup 38);	C'est. ex. (by. to gr P. p.t. (by. to Hime	to seal); Cord. ; in ser sattion	ig. (finely sattler as cord. ng.); P:	ed to 1/3 of hill @ Emo
Host Plants Present: Portion of Mup 38)	Cert. ex. 1649, 15 gr P. p.t. (by: & Hime	to seal), Cord- 7 1. in Sec. 50+ tion	ig. (friedy seather as Cord. ng.); P:	ed 400 1/2 of hill @ Emc en, bog. to go to sold
Host Plants Present: portion of Map 38);	Cert. ex. (beg. to gr P. p.t. (beg. to flowe	to seal), Cond-r 1 in san sattion	ig. (finely seather as cord nig.); P	ed 400 1/2 of hill @ Emo
Host Plants Present:	C'est. ex. (by, to gr P. p.t. (by . & Hime	to seal), Cord. 2 1 in ser 5at tion	ig. (finely satter as cord. ng.); P:	ed 400 1/3 of hill @ Emc By 1 / 2009. to go to 5010
		· · · · · · · · · · · · · · · · · · ·		ed Hos 1/2 of hill @ Ema en beg. to go to sold
	it: Sal. col., Mustry	rd, Exiogonum, t	Eria. crass, Hyp	ed Hos 1/2 of hill @ Ema en dag. to go to seed 0., Meli ind., hypt, lat
	it: Sal. col., Mustre us, Er. ci., Huc. whi	nd, Eriogonum, E	Eria. crass, Hyp cont, Heticout H	o., Meli ind., Crypt, Car
Nector Plants Presen Macro, Wosły Blue au	it: Sal. col., Mustre us, Er. ci., Huc. whi	rd, Eriogonum, t p. Allinn, Erio.	Eria. crass, Hyp	o., Meli ind., Crypt, Car
My Nectar Plants Presen Macro., 4/00/14 Blue au bel., Stinging luping, Car Marin Diet Marin Mul	it: Sal. col., Mustre us, Er. ci., Huc. whi 1. eff., Lot. scop., Dich , Goliante	nd, Eriogonum, E	Eria. crass, Hyp cont, Heticout H	o., Meli ind., Crypt, Car
19 Nector Plants Presen Macro., 4/00/14 Blue au bel., Stinging lynie, Can Min best Min Mur A.P. daisies, Pow gras	t: Sal. col., Musta 16, Er. ci., Inc. she 1. eff., lot. scop., Did , lie) iante, p c., Proj. par.	nd, Eriogonum, t p. Allinn, Erio. cap, Senecus, Co SII gal, E. Ade,	Éris crass, Hyp conf. Heticonft H an leuco, Nild Pen tas, ana c	0., Meli ind., Cupt, Car clianthish, Lup. bi. Cirsium, S Perto, Milkurud, Datar, D in/ cal spen, Blow
19 Nector Plants Presen Maero, Wosly Blue an bel., Stinging lusing, Car Intro- Diet Min Mul	t: Sal. col., Musta 16, Er. ci., Inc. she 1. eff., lot. scop., Did , lie) iante, p c., Proj. par.	nd, Eriogonum, E	Eria. crass, Hyp cont, Heticout H	0., Meli ind., Cupt, Car clianthish, Lup. bi. Cirsium, S Perto, Milkurud, Datar, D in/ cal spen, Blow
19 Nector Plants Presen Macro., 4/00/14 Blue au bel., Shinging lynne, Car Min DEST. Min OU A.J. dairies, Pow gill, Quino Sighting	t: Sal. col., Musta 16, Er. ci., Inc. she 1. eff., lot. scop., Did , lie) iante, p c., Proj. par.	nd, Eriogonum, t p. Allinn, Erio. cap, Senecus, Co SII gal, E. Ade,	Éris crass, Hyp conf. Heticonft H an leuco, Nild Pen tas, ana c	0., Meli ind., Cupt, Car clianthish, Lup. bi. Cirsium, S Perto, Milkurud, Datar, D in/ cal spen, Blow
M Nector Plants Presen Maero, Woolly Blue au bel., Shinging luping, Can Min DEEL Min Mur A.J. dairies, Pow grav Quino Sighting Photographs Taken:	t: Sal. col., Musta 16, Er. ci., Inc. she 1. eff., lot. scop., Did , lie) iante, p c., Proj. par.	nd, <u>Eriogonum, t</u> p) <u>Allinns, Erio.</u> cap, <u>Senecus</u> , <u>C</u> Sil <u>Gal</u> , <u>E</u> Ade, ite:	Eris. crass, Hyp conf., Hetternt H an louco, Mild for tas, ang c GPS Location:	o., Meli nd., Cupt, Car dianthur, Cup. bi. Cirsium, S Pecto, Milkured, Datur, D in/ cal spen, Blow
10 Nector Plants Presen Maero., 4/00/14 Blue au Lel., 5/inging lusing, Car Min Died. Min Min A.J. daisile, Pow grin Quino Sighting Photographs Taken: 1.	t: Sal. col., Musta 16, Er. ci., Inc. she 1. eff., lot. scop., Did , lie) iante, p c., Proj. par.	nd, <u>Eriogonung</u> p) Allinn, Erio. cap, Senecus (1 Sil gal) E Ade ite: 2.	Éris crass, Hyp conf. Hetticrift H an leuco, Nild fen fas, ang c GPS Location:	0., Meli ind., hypt, las clienthiss, lup. bi. Cirsium, S Pecto, Milkoud, Datar, D in/ cal sp. en, B jon 3.
Neetar Plants Presen Macro., 4/00/14 Blue au bel., Shinging lupine, Can Min Dest Min Mur A.J. dairies, Pow grav Quino Sighting Photographs Taken:	t: Sal. col., Musta 16, Er. ci., Inc. she 1. eff., lot. scop., Did , lie) iante, p c., Proj. par.	nd, <u>Eriogonum, t</u> p) <u>Allinns, Erio.</u> cap, <u>Senecus</u> , <u>C</u> Sil <u>Gal</u> , <u>E</u> Ade, ite:	Eria crass, Hyp conf., Heticanff H an louco, Nild Pea tas, ana c GPS Location:	o., Meli nd., Cupt, Car dianthur, Cup. bi. Cirsium, S Pecto, Milkured, Datur, D in/ cal spen, Blow

Location Map 40 Surveyor Nic

Survey Partner(s)

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Total Acres: _____ Portion Surveyed: ____

Elevation: Max _____ Min ____

Date 12-May -10 Survey Week Number 3

Time	(24 hr)	% Cloud			Sky			Wind (range)	Temp (F)
Start	0858	0	clear	patchy	overcast	drizzle	shower	0-1	61 (Air-63)
	11.38	5	clear->	patchy	overcast	drizzle	shower	3-7	72(Ain-71)
			clear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
		· · · · · · · · · · · · · · · · · · ·	clear	patchy	overcast	drizzle	shower		
Stop	345	15	clear->	patchy	overcast			6-9	83 Air-75

Habitat onsite (circle as applicable); (hillions, ridges, rock outcrop) open soils, soil crusts, clay soils, old roads, Manlago, Castilleja, Gordylanthus, Antirrhinum, negtar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		•
Charidryas gabbii (Gabb's Checkerspot)	illit	HFT 1	Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)	13		Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)	ť		Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Clouk)	1		Apodemia mormo (Mormon Metalmark)	1	 
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
· Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	<u>#1</u>	
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	1	
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	()	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Dangus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme(Orange Sulphur)	_	
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)	11	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		<u> </u>
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	11		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			•		
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)		]			
Atlides halesus (Great Purple Hairstreak)					_ <b>_</b>
Incisalia augustinus(Western Brown Elfin)					ļ
Callophrys perplexa(Perplexing Hairstreak)					1
Strymon melinus (Gray Hairstreak)		1		_	<u> </u>
Glaucopsyche lygdamus(Southern Blue)					<u> </u>
Icarcia acmon(Acmon Blue)	W				
Celastrina ladon(Echo Blue) MAIO	1 LHT IL	H1			

Surveyor <u> </u>	Segment # Map 40	Date: 12-May-10
Comments: Wap 40 -	Arcto, Quercus Adenostenma, Ceanothus -	tree shrubs
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Plant Communities an	d Habitat Information:	
Trait Communices an		
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Host Plants Present: (	Cast. ex-going to seed	
Coung -up to bin t	all (Map 40) - beg to sprout (Map 4)	······
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ung Noetar Plants Present:	- van sa, nu. was, can opena, cropent	1) Say have to be while RI A.
ling Noetar Plants Present: Sale col., Dicle. cap., Pha. Clarking lat Score Sile	c. par. Stinging Lyone, Engonum End conf.	Hypo, Min. brev., hip. bie; Wolly, Bluchi
Garking, Lot. Scop., Sil. Clarking, Lot. Scop., Sil. Clarking, Lot. Scop., Sil.	c. par stinging Lynne, Enigonum, Enio conf.	1) Sai have to his while RI A.
Sale col, Dicta. cap, Pha. Clarker, lot. scop, Sil. Clay, ert, Heliarthice Longton, last. appins,	4. Par Stinging Lupue, Enbornum, END conf. Gal. Antifase, Phac. az min ann. Rock lo 1. P- apple wood sidalwa, Philox; Sys. bel., Triblium, Red Mards	Hypo, Min. brev., hip. bis; Wolly, Bluchi tus, Pensterion, Plagio; Min. big, Pecte Esch. cal., Tuc. schi, Sol. par., Gilia,
Noctar Plants Present: Sal, col., Dich. cap, Pha. Clarker, lot. scop, Sil. Clay, perf., Heliauthic Construin, last. appris, Quino Sighting	4. Par Stinging Lupue, Enbornum, END conf. Gal. Antifase, Phac. az min ann. Rock lo 1. P- apple wood sidalwa, Philox; Sys. bel., Triblium, Red Mards	Hypo, Min. bress, hip. bis; Wolly, Bluchi
Sali col., Dicto. cap, Pha. Clarker, lot. scop., Sil. Clay. ert., Helianthice Longton, last. appier, Quino Sighting	Gal, Ani far, Phac. and Enbyonum, Evio conf. Gal, Ani far, Phac. az, Min ann. Rock lo 1, F- apple wood sidalwa, Philox, Sys. bel., Trifolium, Red Mards	Hypo, Min. brev., hip. bis; Wolly, Bluchi tus, Pensterion, Plagio; Min. big, Pecte Esch. cal., Tuc. schi, Sol. par., Gilia,
Sul, col., Dicle. cap, Pha. Clarker, lot. scop, Sil. Clay, ert., Heliarthice Longton, last. appril, Quino Sighting Photographs Taken:	c. par, striging Lypue, Enbyonnum, Enb conf., gal, tri.fasc., Phac. it, Min.au., Rock to 1, P-apple yead; Sidalwa, Philox; Sys. bel., milolium, Ped Mardy Date: GPS L	Hypo, Min. brev., hip. bis; Wolly, Bluch tus, Penstenn, Plagio, Min. big, Pect Esch. al., Tuc. schi, Sol. par., Gilio, ocation:
Sal, col., Dich. cap, Pha. Clarkin, lot. scop, Sil. Clay perf., Helianthic London, last. appril Quino Sighting Photographs Taken: 1.	2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	Hypo, Min. brev., hip. biz; Wolly, Blucki tus, Rensterion, Plagio; Min. big, lecto Esch. cal., Tuc. schi, Sol. par., Gilia, ocation: 3.
Sal, col., Dich. cap, Pha. Clarker, lot. scop, Sil. Clay, ert., Heliarthic London, last. appily Quino Sighting Photographs Taken:	c. par, striging Lypue, Enbyonnum, Enb conf., gal, tri.fasc., Phac. it, Min.au., Rock to 1, P-apple yead; Sidalwa, Philox; Sys. bel., milolium, Ped Mardy Date: GPS L	Hypo, Min.brev., hip.bci ; Wolly, Bluch hus, Rensterion, Plagio, Min.big, Pecto Esch. al., Tuc. schi, Sol. par., Gilia, ocation:



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

Time (24 hr)	% Cloud			Šky			Wind (range)	Temp (F)
Start OGOD	07.	at an an	patchy	overcast	drizzle	shower	N-2mph	680°F
		· clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
	<del></del>	clear	patchy	overcast	drizzle	shower		
· · · · · · · · · · · · · · · · · · ·	· · ·	clear	patchy	overcast	drizzle	shower		· · · · · · · · · · · · · · · · · · ·
		clear	patchy	overcast	drizzle	shower		
Stop 350	15%	clear		overcast			B-12 mph	-73.0°F

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

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total),	Hill- tòpping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa(Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	11		Everes amyntula (Western TailedBlue)	<u> </u>	
Phycoides mylitta (Mylitta Crescent)	· · · · ·		Brephidium exilis(Western Pygmy-Blue)	ļ	
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	<u>In I</u>	1
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)	<u> </u>	<u> </u>
Junonia coenia (Common Buckeye) ava Quie	NI		Papilio eurymedon(Pale Swallowtail)	<b>_</b>	
Vanessa annabella(West Coast Lady)	ha		Papilio rutulus (Western Tiger Swallowtail)	<u> </u>	
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)	ļ	
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		ļ
Vanessa virginiensis(American Lady)		1	Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	M	Ni
Danaus gilippus (Queen)		1	Pieris rapae (Cabbage White)		
Danaus gruppus (Queen) Danaus plexippus (Monarch)			Pontia protodice(Checkered White)	1	
Hesperidae			Colias eurytheme (Orange Sulphur)	T	
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)	· ·		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)		1	Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)	1		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)		1	Unidentified Sure 1111	NI	INI
Ochlodes agricola (Rural Skipper)		1	California sister	1	
Lycaenidae (Hairstreaks)			Unidentified with	1	<u> </u>
Atlides halesus (Great Purple Hairstreak)		T			
Incisalia augustinus(Western Brown Elfin)					<u> </u>
Callophrys perplexa(Perplexing Hairstreak)		-			
Strymon melinus (Gray Hairstreak)	Ĭ				<b>_</b>
Glaucopsyche lygdamus(Southern Blue)		L			
Icarcia acmon (Acmon Blue)	HU MA				<u> </u>
Celastrina ladon(Echo Blue)					

Adult Survey

Surveyor	$\mathcal{M}$	W	4	2

Segment # Maps 41-44 _____ Date: 14 May 10_____

Comments:		
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	- 1	
Plant Communities and Habitat Inform	nation:	
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		- <u></u>
Host Plants Present: Cachilleja ex	erta plantago patazonila	(growing in road)
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		<u> </u>
	CEN, Jamissonia g. Cryptant	na sp., tRO BOT DIC CAP
ERI CON CIR DUC, LOTSCO		UR YUCWHILLWPBIC
STLGAL YUCSCH, ASC CAL		18 360000 Tritolum se
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	ate: GPS Location	
	Gro Location	
Photographs Taken:		· · · · · · · · · · · · · · · · · · ·
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10+ 		12.

Quino Checkerspot General Form	Pages Adult Survey
Location CNF / SDGSE	Survey Segment 49 - 56 (1707 52-53)
<b>h</b>	Date 27 Apr 10 Survey Week Number 3
Survey Partner(s) Chet Mc Gaugh,	Stove Myers
Total Acres: Portion Surveyed:	Elevation: Max Min

- 0-

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start / OC	0	(clear) patchy overcast drizzle shower	0-1	70°
1150	19	clear patchy overcast drizzle shower	8-5	73
1300	50 H/T	clear patchy overcast drizzle shower	2-5	73
1430	20	clear patchy overcast drizzle shower	r5	74
1600	20	clear patchy overcast drizzle shower	2-6	70
		clear patchy overcast drizzle shower		
Stop 1520	20	clear patchy overcast drizzle shower	3-6	20

Habitat onsite (circle as applicable) (hilltops ridges, rock outcrops, open soils soil crusts clay soils old roads, Plantago) Castillejo, Cordylanthus, Antirrhinum, neciar sources

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Creseent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodentia mormo (Mormon Metalmark)	13	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)	1	
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	ア	
Vanessa utalanta (Rcd Admiral)	·····		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)	2		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthochuris sora (Sara's Orangetip)	54	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		}
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	2	
Hesperidae			Colias eurytheme (Orange Sulphus)	1	
Heliopetes ericetorium (Northern White-Skipper)	- X		Colias harfordíi (Harford's Sulphur)	10	
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funercal Duskywing)	7		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Vanessa sp	1	
Ochlodes agricola (Rural Skipper)			SISTER	1	
Lycaenidae (Hairstreaks)			Erymnis sp.	8	
Atlides halesus (Great Purple Hairstreak)			Erymnis sp. Sm. Ch. Skipper P		
hicisalia augustinus (Western Brown Elfin)			Blue-sp.	7	
Callophrys perplexa (Perplexing Hairstreak)			Armortop SP.	31	
Strymon melinus (Gray Hairstreak)			White-sp.	12	
Glaucopsyche hygdamus (Southern Blue)			Sulphur sp.	15	
Icarcia acmon (Acmon Blue)	7				
Celastrina ladon (Echo Blue)					

Surveyor John Green Segment # Deer harn Valley Date: 4-27-10 **Comments:** Plant Communities and Habitat Information: Chaparral, Oak Woodland, NNG, CSS Host Plants Present: Plantago creda & Owl's Clover Nectar Plants Present: Phacelia, Lupine, Blue Dicks, Goldfields, & many others **Quino Sighting GPS Location:** Date: Photographs Taken: 1. 2. 3. 4. 5. 6. 8. 7. 9. 10. 11. 12.

# Adult Survey

Location _ Yilap Sa (wast), 55	Date <u>D3-May 10</u> Survey Week Number <u>3</u> #5467 Map 55
Surveyor <u>NK</u>	Date <u>05-map 10</u> Survey week Number = +5 ton Map 55
Survey Partner(s) <u>LC1</u>	
Total Acres: Portion Surveyed:	Elevation: Max Min

Tir	ne (24 hr)	% Cloud			Sky	a and a		Wind (range)	Temp (F)
Start	0970	0	cleap		overcast	drizzle	shower	0-1	65 (A. 88)
	1118	. <i>í</i> )	cleān	patchy	overcast	drizzle	shower	4 7	76 (hr 75)
	· · · · · · · · · · · · · · · · · · ·		clear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
		· · · · · · · · · · · · · · · · · · ·	clear	patchy	overcast	drizzle	shower		
	<u></u>		clear	patchy	overcast	drizzle	shower		
Stop	1307	<i>C</i> ?	clear	patchy	overcast	drizzle	shower	19 (and 4-6)	85 ( in 79)

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

Count (Total)	Hill- topping	Butterfly Species	Count (Total).	Hill- topping
		Leptotes marina (Marine Blue)		
		Philotes sonorensis (Sonoran Blue)		
		Plebejus melissa (Melissa Blue)		
		Everes amyntula (Western TailedBlue)		
		Brephidium exilis(Western Pygmy-Blue)		\$
		Riodinidae (Metalmarks)		
		Apodemia mormo (Mormon Motalmark)		
		Papilionidae (Swallowtails)		
		Papilio eurymedon(Pale Swallowtail)	V	
	1	Papilio rutulus (Western Tiger Swallowtail)		
		Papilio zelicaon(Anise Swallowtail)		
W.		Pieridae (Whites and Orangetips)		
		Anthocharis cethura (Desert Orangetip)		
		Anthocharis sara (Sara's Orangetip)	UH IN	e e e
		Pieris rapae (Cabbage White)		
	1	Pontia protodice(Checkered White)		
		Colias eurytheme (Orange Sulphur)		
		Colias harfordii (Harford's Sulphur)	H.	
		Eurema nicippe (Sleepy Orange)		
		Satyridae (Satyrids)		
		Coenonympha californica(Common California Ringlet)		
		OTHERS:		<u> </u>
		Whate sp. (nor 124 billions	Ht	
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	<u> </u>			<u> </u>
121.				
			(Total)       topping       Bitterny Species         Leptotes marina (Marine Blue)       Philotes sonorensis (Sonoran Blue)         Plebejus melissa (Melissa Blue)       Plebejus melissa (Melissa Blue)         Everes amyntula (Western TailedBlue)       Brephidium exilis (Western TailedBlue)         Brephidium exilis (Western TailedBlue)       Brephidium exilis (Western TailedBlue)         Riodinidae (Metalmarks)       Apodemia mormo (Mermon Metalmark)         Papilionidae (Swallowtails)       Papilio eurymedon(Pale Swallowtail)         Papilio rutulus (Western Tiger Swallowtail)       Papilio zelicaon(Anise Swallowtail)         Papilio zelicaon(Anise Swallowtail)       Papilio zelicaon(Anise Swallowtail)         Papilio zelicaon(Anise Swallowtail)       Papilio zelicaon(Anise Swallowtail)         Pontia protodice (Checkered White)       Colids eurytheme (Orange Sulphur)         Colids a surptheme (Orange Sulphur)       Colids harfordii (Harford's Sulphur)         Eurema nicippe (Sleepy Orange)       Satyridae (Satyrids)         Wood Ap, front Mark Front Mark       Wood Ap, front Mark Europeanetanetanetanetanetanetanetanetanetane	Citatil       topping       Butterity Species       (Total)         Leptotes marina (Marine Blue)       Image: Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct and Construct ander and Construct andevended and Construct andevended and Construt

				Date: 03-May-10
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Plant Comm	unities and Habitat In	formation:		······································
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Host Plants	Present: Cast - 200 -	ban to in back		· · · · · · · · · · · · · · · ·
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Nectar Plan	is Present: Phar, ac.	Tider Tips Lar. car. in	wortherd, crupt, lead	Corrig Hole Staring Add with many
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Canesconia, to E. no. cont. 1 Vac. align. 2011 Vallance and	= sh. cal. lot. sap. h., Low, Ginap, hu, Lines,	· · · · · · · · · · · · · · · · · · ·	the bit the de Serva	nod Blen from Rh. mala
Can porcio, t Erio, cont., C Latora dan Datora dan	Esh. cal. lot. sap. h.c. Leves , Comp. http:// Aprilia. hting	· · · · · · · · · · · · · · · · · · ·	GPS Location:	and Bin an Rh. mala
	Esh. cal. lot. scop. h.c. Leves Conap. hu. A. Leves hting	dem Marsbred, 7.20	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	and Bin any Rh mate
		dem Marsbred, 7.20	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	ntal, Mini an Rh. mala
Quino Sig		dem Marsbred, 7.20	GPS Location:	
Quino Sig		2. 5.	GPS Location:	6.
Quino Sig Photographs		<u>ur., M.c. bred.</u> 7.21 Date: 2.	GPS Location:	

3

Adult Survey

57

Location Surveyoraurie_Gorman	Date 5-3-10 Survey Week Number	
Survey Partner(s) <u>Nicole Kimball</u> Total Acres: Portion Surveyed:	Elevation: Max M	in

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start 0910	0%	(clear) patchy overcast drizzle shower	0-)	65°F
0955	6%	clear patchy overcast drizzle shower	5-11, 4mph	79.0% hilliop
114	σl.	clear patchy overcast drizzle shower	0-2 mph	79.0°F
		clear patchy overcast drizzle shower	· ·	
		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
Stop 1301	01.	(clea) patchy overcast drizzle shower	4-6nph	85°F (79°F
Habitat onsite (circle as	applicable)	nilltops, vidges, lock outcrop, open soils soil cru	ists, etay soils old ro	bads, Plantago, in air)

Habitat onsite (circle as applicable) (hilltops) ridges, tock outcrops, open soils soil crusts, etay soils old roads, Plantago, Castilleja, Cordylanthus, Antirrhinum, neetar sources.

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- töpping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)	,		Apodemia mormo (Mormon Metalmark)		
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)	·	
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)	1		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	:		Pieridae (Whites and Orangetips)		L
Vanessa virginiensis(American Lady)	<b>.</b>		Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		<u>K K</u>
Dangus gilippus (Queen)			Pieris rapae (Cabbage White)	· ·	
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Coltas eurytheme (Orange Sulphur)	*	
Heliopetes ericetorum (Northern White Skipper)	1		Colias harfordii (Harford's Sulphur)	11/1	<u> </u>
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		<u> </u>
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		ļ
Erynnis funeralis (Funereal Duskywing)	T		Coenonympha californica(Common California Ringlet)		<u> </u>
Erynnis tristis (Mournful Duskywing)			OTHERS:		<u> </u>
Erynnis propertius (Propertius Duskywing)			Common white		. 
Ochlodes agricola(Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)				_ <b>_</b>	
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)					<u> </u>
Strymon melinus (Gray Hairstreak)		ļ			<u> </u>
Glaucopsyche lygdamus(Southern Blue)					<u> </u>
Icarcia acmon (Acmon Blue)	THE	¥			

Surveyor Laure Gorman Segment #_____ Date: 5-3-10 **Comments:** Plant Communities and Habitat Information: Source mired chapanal dominant Host Plants Present: Cassillera exerta. Nectar Plants Present: Erodium borrys, tidy tips, lupints bicolor, Crystantha sp Phacelia distans, Perstanon centrarthifolius, Paponia californica; Keckiella artirrhinordes, Chia lotus scoparius, Chaenachis art, (white encushion) poppy, bindure Phacelia paryil, Phacelia circultaria, Apoceni grandiflora stichlis Spicata Enjophyllion Conventier mustard, Camisionia sp. yerbaisantor, Graphalin bicdir, Oning Sighting Heliarts GPS Location: Supania **Quino Sighting** Date: hetershallers ica whipp (ei **Photographs Taken:** ten cardops 3. 1. 2. 6. Vigene guilt 4. 5. 8. 9. 7. 12. 11. 10.

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105-2TO		

alt Survey

Location MS 55 (north From Man 20 mit R) 4	Survey Segment
Location MS 55 (north From Mah 20 Not RUY Surveyor DAVID KINK	Date 4/2/4/10 Survey Week Number 3

Survey Partner(s) <u>Nicole</u> <u>Kunden</u> Total Acres: _____ Portion Surveyed: _____

Elevation: Max

Min

Time (24 hr)	% Cloud		Sky	ر. مرید تندیز کو میشور که		Wind (range)	Temp (F)
Start 12.05	D	clear patchy	overcast	drizzle	shower	2-8 mph Variab	614/60ai
1300. 410 bruce	B Z	clear patchy	overcast	drizzle	shower	2-12mph 6	63,1584
1420	30%	clear patchy	overcast	drizzle	shower	2-15 4-6	684/589
1520	1070	elear patchy	overcast	drizzle	shower	6-9 are 6	61, 65-
		clear patchy	overcast	drizzle	shower		
<u>.</u>		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	Bufferfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)	_	
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		1	Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)	-	
Thessalia leanira(Leanira Checkerspot)			Riodinistas (Nietalmarks)		
Nymphalis antiopa(Mourning Cloak)		<del></del>	Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	1.		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)	1	
Danaidae			Anthocharis sara (Sara's Orangetip)	VAL	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		1	Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme(Orange Sulphur)	-	
Heliopetes ericetorum(Northern White-Skipper)		1	Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		<u> </u>
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: white SP.	4	
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola(Rural Skipper)	.				
Lycaenidae (Hairstreaks)					
Atlides halesus(Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	11				
Strymon melinus (Gray Hairstreak)					<u> </u>
Glaucopsyche lygdamus(Southern Blue)				_	<u> </u>
Icarcia acmon (Acmon Blue)			······································		<u> </u>
Celastrina ladon(Echo Blue)		1			

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Surveyor Kiv	<u>ک</u>	Segment	# <u>MS55</u>	Date: 4/38/10
Comments: Rain	15mm 141	+ 2 dans i	n c.nes	
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Plant Communities	and Habitat Ir	nformation:		
Plant Communities	and Habitat Ir	nformation:		
Plant Communities	and Habitat Ir	nformation:		
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Host Plants Presen			10×50 strup	
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Host Plants Presen Cost. except. 250 Blowy Neetar-Plants Prese Eridi m. cic.	ent: Hetrother if.	lotus scoran.	Lofus p carocafre SP.	Paytim al. African Dad
Host Plants Presen Cust: except, - 50 Riony Nectar-Plants Prese Eridi m cic. There poly.	ent: Hetrotheca if. im yellow esta	lotus scorzan (anisonia sp. chistumus)	Lofis p carrozafie 5P. Calistoric mátro	Perstim of. African Dars Goldman 2011 minilus (2)
Host Plants Presen Cust. exurt. 250 Rlowy Neetar-Plants Prese Eridi m cic. Silene police Criptingthe jpp	ent: Hetrothics if. Sm yellor estru- Bres nigon	lotus scoran. (andsonda st. <u>Chistianus</u> yncea whip	Lofis p carrozafie 5P. Calistoric mátro	Perstim of. African Dars Goldman 2011 minilus (2)
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Host Plants Presen Cust. excert. 250 RIDONY Nectar Plants Prese Eridi m cic. Silene police Criptica fue (pr	ent: Hetrothics if. Sm yellor estru- Bres nigon	lotus scoran. (andsonda st. <u>Chistianus</u> yncea whip	Lofis p carozafie 5P. Calistoric mátro	Partin of African Dark Guldnen Joli mimilies (32) bhiedicki isinghtim of Lulion silce
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Host Plants Presen Cast. exert. 250	ent: Hetrothecz if im jullice site Bress nigra String bells	lotus scora- (andsondo st. Candsondo st. Chipathomes yacca whip skaliter st.	Lotis P charoten fine SP. Califyoric making Ghapthana SPP : Eristhikan cal Rick toc	Partin of African Dark Guldnen Joli mimilies (32) bhiedicki isinghtim of Lulion silce

Location Thanks 55 the	Survey Segment
Surveyor <u>A/k</u>	Date 3 Aur 10 Survey Week Number
Survey Partner(s) DK	
Total Acres: Portion Surveyed:	Elevation: Max Min

Min

3

Time (24 hr)	% Cloud	Sky Wind (range) Temp (F)
Start 400	20) 	clear patchy overcast drizzle shower 1.2 what up to li 68
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520	:5	clear patchy overcast drizzle shower 5 66
		clear patchy overcast drizzle shower
	• • • • • • • • • • • • • • • • • • •	clear patchy overcast drizzle shower
	<u> </u>	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)	Híll- topping	Butterfly Species	Count (Total)	Hill- fòpping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		L
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		ļ
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	1		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	HT1	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	111	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			What survey they Bocker is	<u>},</u>	
Ochlodes agricola(Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					· ·
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	ý				
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)			·		
Icarcia acmon (Acmon Blue)					
Celastrina ladon(Echo Blue)					

Surveyor <u>MK</u> Segment # <u>Maps 35 + 55</u> Date: <u>33 Apr 10</u>

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Plant Communities and Hab	oitat Information:		
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Host Plants Present:			
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🗖 Quino Sighting	Date:	GPS Location:	
Photographs Taken:		· · · · · · · · · · · · · · · · ·	
I THOLOGRADUS LAKEN:	<u> </u>	······································	
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Adult Survey

Location	Maps	70,75,77
Surveyor	NK	, ,
	rtner(s)	

Total Acres: _____ Portion Surveyed:

Survey Segment_____ Date <u>M-May-10</u> Survey Week Number <u>3</u>

Elevation: Max _____ Min ____

ni T	ne (24 hr)	% Cloud		Sky	تر رود که مراجع	• • • • • • • • • • • • • • • • • • •	Wind (range)	Temp (F)
Start	0900	Ð	clear pate	chy overcas	t drizzle	shower	1-3	61 (Air-68)
	1056		(lear->pate	chy overcas	t drizzle	shower	1-3 gusts voto 7	79 (Air-77)
			clear pate	chy overcas	t drizzle	shower		
			clear pate	chy overcas	t drizzle	shower		
			clear pate	chy overcas	t drizzle	shower		
			clear pate	chy overcas	t drizzle	shower		
Stop	1511	25	clear > pate	chy overcas	t drizzle	shower	57 gusts up to 11	85 (4r-81)

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

Butterfly Species	Count (Total)	Hill÷ topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks) Many		
Nymphalis antiona (Mourning Cloak)	1		Apodemia mormo (Mormon Metalmark)	HT IN	11.00
Basilarchia lorguini(Lorquin's Admiral)	ľ		Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	耄///	- · ·
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	l		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)	}	
Danaidae			Anthocharis sara (Sara's Orangetip) Many	ANT HI	Ч
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)	1	
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae		[	Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	()	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)	1		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		L
Erynnis propertius (Propertius Duskywing)	1		Becker's white	<u>UI</u>	
Ochlodes agricola(Rural Skipper)			White 50.	11/	
Lycaenidae (Hairstreaks)			CA. Suter	<u> </u>	
Atlides halesus (Great Purple Hairstreak)			Manie Blue	m	ļ
Incisalia augustinus(Western Brown Elfin)		1	Painta Sulphur	1	
Callophrys perplexa(Perplexing Hairstreak)			, , , , ,		
Strymon melinus (Gray Hairstreak)		1			<u> </u>
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue) Many	UF UH	11			
Celastrina ladon(Echo Blue)					

Surveyor NK

Segment # Maps 70, 75, 77 Date: 14-May-10

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Plant	Communities and Habi	itat Information:		
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Host	Plants Present: Column	2 - Plowering & scorthand	white SULANDER and (MAD 70 - Ed. La Posta	jed
Host	Plants Present: Column	'a - Mowering & scattered	whin survey are (Map 70 - Ed. La Posta	jRd)
Host	Plants Present: Colinar g beg. to Sprow	'a - Plowering & scattered	ufin survey area (Map 70 - Ed. La Posta	jld)
Host	Plants Present: Colinar g beg. to spinet	"4 - Plowening & scattered	ufin survey area (Map 70 - Ed. La Posta	jed)
	Plants Present: Colinar g-beg. to sport	'a - Mowering & scattaned	whin survey are (Map 70 - Ed. La Posta	jld)
Host Co ₁ , vi	Plants Present: Colinar g beg. to Sprow	in - Plowering & scattered	whin survey area (Map 70 - Ed. La Posta	jld)
	Plants Present: Column g big. to Spirit	"4 - Plowering & scattered		j(d)
	g-blig to spirad	· · · · · · · · · · · · · · · · · · ·		
	g-blig to spirad	in - Plowering & scattered		Reto.,1
	g blg. to Spirud är Plants Present: Came	· · · · · · · · · · · · · · · · · · ·	Phac. cie. Cripts, Mustard, Lup. tring	fld) fleto.,,te
M Necti	g blg. to Spirud är Plants Present: Came	monia, Ex. cú., Las. cal.	Phac. cic., Cripts, Mustard, Lup. bic., Eyes, May. p.f., Tuc. yhip, Lot. Sup.	lectoryl Yuc. sel g belly
M Necti	g blg. to Spirud är Plants Present: Came	Monia, Er. cú., Las. cal., Ju., Eris. woh, Baby Bhu	Phac. cic., Cripts, Mustard, Lup. bic., Eyes, May. p.f., Tuc. yhip, Lot. Sup.	leto.,l Vuc. sel atto, S
Vy Necti	g blg. to Spirud är Plants Present: Came	Monia, Ex. cú., Las. cal. su., Eris. work, Paby Bhu ; Ph loz, Ephedra, Wosili	Phac. cic., Cripts, Mustard, Lup. bic., Eyes, May. p.f., Tuc. yhip, Lot. Sup.	let) lecto., l Yuc. sel g bell att, S
M Necti Esch. Peony Mins Par,	ir Plants Present: CAMU and Cast, athiris, Sel. c. Amsinchia, Min, big , and, Rick Whis, A. Keckulla, Sensin, The	Monig, Er. cit., Las. cal., slu., Eris. worti, Paky Bhu , Phloz, Ephedra, Wosli, tragalas, Plagis., Wild	Phac. cic., Cripts, Mustard, Lup. bic., Eyes, May. p.f., Tuc. yhip, Lot. Sup.	ld) lecto., l Yuc. set g belly atts, S
Nection Uscher Beary Mins Par,	ir Plants Present: CAMU and Cart, athinis, Sel. Co Amsinchia, Min, big , and, Rick Wing As	Monia, Er. cú., Las. cal., slu., Eris. woh, Paky Blu , Phloz, Ephedra, Wosll, Kagalas, Plagis., Wild ly-tipa, Sam. ogé, Penst	Phac. cic., Cripts, Mustard, Lup bing Eyes, Clay. p. f., Nec. whip, Cot. Sup, Upice, Phac. par., Orienadi, Whisperin Pay, Woolly, Blue Curls, Drich. cup, Clem mon,	leto.,l Lecto.,l Yuc. sel g belly atts, S
Necti Esch. Peory Mins Par, Qu	ir Plants Present: CAMU and Cast, athiris, Sel. c. Amsinchia, Min, big , and, Rick Whis, A. Keckulla, Sensin, The	Monia, Er. cú., Las. cal., slu., Eris. woh, Paky Blu , Phloz, Ephedra, Wosll, Kagalas, Plagis., Wild ly-tipa, Sam. ogé, Penst	Phac. cic., Cripts, Mustard, Lup bing Eyes, Clay. p. f., Nec. whip, Cot. Sup, Upice, Phac. par., Orienadi, Whisperin Pay, Woolly, Blue Curls, Drich. cup, Clem mon,	let) leto., set g belly atts, S
Nection School Nection School Party Party Qu	ir Plants Present: Camp and Cart, athinis, Sel. c. Amsinchia, Min, big , a.u., Rick Whis, A. Kelkilla, Sensin, The ino Sighting	Monia, Er. cú., Las. cal., slu., Eris. woh, Paky Blu , Phloz, Ephedra, Wosll, Kagalas, Plagis., Wild ly-tipa, Sam. ogé, Penst	Phac. cic., Cripts, Mustard, Lup bing Eyes, Clay. p. f., Mustard, Lup bing Lupise, Phac. par., Orienadi, Whisperin Pay, Woolly, Blue Curls, Drich. cup, Clem mon,	le() lecto.,l Yuc. set g belly atin, S
$ \begin{array}{c}                                     $	ir Plants Present: Camp and Cart, athinis, Sel. c. Amsinchia, Min, big , a.u., Rick Whis, A. Kelkilla, Sensin, The ino Sighting	Monig, Er. ci., Las. cal., slu., Eris. work, Raby Bhu , Phloz, Ephedra, Wosli , tragalas, Plagis. Wild ly-tips, Sam. e.g., Penst Date: 2.	Phac. cic., Cripts, Mustard, Lup. bis. Eyes, May. p. J., Yue. 4hip. (Lot. Scop) (upine, Phac. par., Orienacti, Whisper Per, Wooll, Blue Custs, Drich. cup., Clem mon; GPS Location:	let) lector, l Yuc. set g belly att, se
Nection Nection Viscon Peony Milan Par., Par., Photo	ir Plants Present: Camp and Cart, athinis, Sel. c. Amsinchia, Min, big , a.u., Rick Whis, A. Kelkilla, Sensin, The ino Sighting	sonia, Ex. cú., Las. cal. shu, Ex. cú., Las. cal. shu, Eris. wrfi, Baby Bhu ; Ph loz, Ephedra, Wosll, Kagalas, Plagis. Wild by-thps, Sam. esc, Bensk Date:	Phac. cièr, Cript, Mustard, Lup king Eyas, May. p. f., Muc. J. hip - Cot. Scop, Jupise, Phac. par., Orienacti, Whisper Par, Woolly, Blue Curls, Drich. cup., Clem mon. GPS Location: 3.	Ild) Ildo Recto., l Yuc. set g belly attin, Se

Adult Survey

Quino Checkerspot General Form	1
Location	Date 5-12-10 Survey Week Number 3
Surveyor Laune Gorman	Date <u>5'- 2 70</u> Survey Week Number <u>3</u>
Survey Partner(s) Green	
Total Acres: Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud		Sky		Wind (range)	Temp (F)
Start D93()	01.	clear) patchy o	vercast drizzle	shower	0-3mph	66.54F
1210	01.	dear patchy o	vercast drizzle	shower	6-10 Just michaellow	68.9°F
			vercast drizzle		mphintar	
		clear patchy o	vercast drizzle	shower		
		clear patchy o	vercast drizzle	shower		
······································		clear patchy o	vercast drizzle	shower		
Stop 1500	31.	clear patchy o	vercast drizzle	shower	3-7 mph	13.8°F

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

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)	]	
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	1H		Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark) [[]]	11.114	<u> </u>
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	Ĩ	
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	1		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		:
Danaidae		· · · · · · · · · · · · · · · · · · ·	Anthocharis sara (Sara's Orangetip)	DAN III	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		1	Pontia protodice (Checkered White)		
Hesperidae	•		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum(Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		<u> </u>
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		<del>_</del>
Erynnis fureralis (Funereal Duskywing)	11		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:	_	
Erynnis propertius(Propertius Duskywing)		1	Varetsa Sp. 1 1 1 1	- 11	
Ochlodes agricola(Rural Skipper)			California white	<u> </u>	
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					ļ
Incisalia augustinus(Western Brown Elfin)					·
Callophrys perplexa(Perplexing Hairstreak)				_	
Strymon melinus (Gray Hairstreak)					<b> </b>
Glaucopsyche lygdamus(Southern Blue)				<u> </u>	<u> </u>
Icarcia acmon(Acmon Blue)	NUT				<u> </u>
Celastrina ladon(Echo Bluc)	·· · · -				

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Surveyor <u>LG+JG</u> Segment # <u>Maps 71-74</u> Date: <u>12-May-D</u>

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Comments:			
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Plant Communities and Habitat In	formation:		
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Heat Blance Brogenste (* 10	minute m	<u> </u>	
Host Plants Present: Collinsia			
Concolor		<u> </u>	
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		·····	
Nectar Plants Present: Godium	se. mustard	constant Lase RL	antibothy & SP. Minnus &.
<u> </u>	1 1	CONFLAS CAL.	LOT SCO GTL CAP. AGO KU
		NCEN PHA	WE CIR SOL PAR YUC WHI
	C, PHA PAR, PF	NUCKY PIPIT COM	DE CIF, OUL FAR, FUL WALL
Child CEON LEN LAS FOL	<u> </u>		
Quino Sighting	Date:	GPS Location	n:
Photographs Taken:			
1.	2.		3.
	5.		6.
4.	<u> </u>	<u></u>	
7.		······	9.
10.	11.		12.

# **Quino Checkerspot General Form** LocationCNF/SDSF $Q_{added}$ Survey Segment $P_2.74 \rightarrow 71$ SurveyorDate $2Ma_{add}$ Survey Week Number23Survey Partner(s)LangleGormanGorman

Adult Survey

Location	<u>_</u>
-	

 Survey Partner(s)
 Lawrey Gorrey

 Total Acres:
 Portion Surveyed:

 Elevation:
 Max

Min

Time (24 hr)	% Cloud		Sky		Wind (range)	Temp (F)
Start 01, 96	0	clear patchy		shower	0.4	512
12:0	frace	clear / patchy	overcast drizzle	shower	0-3	711
1345		(clear) patchy	overcast drizzle	shower	9-3	733
1519		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		L.

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	Butter fly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		ļ
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Numphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	35	 
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		L
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)		<u> </u>
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		<u> </u>
Vanessa cardui (Painted Lady) 1			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	4	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum(Northern White-Skipper)		· · · · ·	Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erymnis funeralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)	· · · ·	1	OTHERS:		
Erynnis propertius (Propertius Duskywing)			Blue Sp. HTTL	6	
Ochlodes agricola (Rural Skipper)			Orangella sp. HT	5	
Lycaenidae (Hairstreaks)			Durkymas SP. 11	2	
Atlides halesus (Great Purple Hairstreak)			Swallowist sp.1	1	
Incisalia augustinus(Western Brown Elfin)		1	Whippesp. 1		
Callophrys perplexa(Perplexing Hairstreak)	2	1			
Strymon melinus (Gray Hairstreak)		<u> </u>			
Glaucopsyche lygdamus(Southern Blue)	1.				
Icarcia acmon (Acmon Blue)	14				
Celastrina ladon(Echo Blue)					

Surveyor John Groom Segment # Pg 74-77 Date: 12 May 10 Comments: CORA SPTO ATFL BESP WSJA BHGR CATH TUNN HOFT CALT PBSR. BEWR RWBL ACWO SAGS-Pg. 72 MODO CAQU COHA Alyover @ E. end super oren pg. 74 Cottannel, Coyote When, W. Whiplaid, W.F. Liz Plant Communities and Habitat Information: Chepense Host Plants Present: Nectar Plants Present: Plagia/ Crypi and Nox 2th, Lobis annual Dearweed, Recisionya Lait pr. Ceandhus Blue Curls, Dud Neuro Chin, Chin, California, Minutis annual Nightstade Frieddellure, Charaine, Sun cupix2, Married, Frederica, Minutis Lettere, Whilepung Bells, Pantbush (red), Dandellerix2, Godfields, Scorlet Bugles, Reasternige Fishis, Logia, Elderberry, Lupinex4, Gilians, Gilden Yourson, Miners Series **Quino Sighting GPS Location:** Date: Photographs Taken: 1. 2. 3. 5 6. 4. 8. 9. 7. 12. 10. 11.

Location MADS HWY 76	Survey Segment MAPS MS _ 002-004 Date ZI MAY 10 Survey Week Number <u>4</u>
Surveyor M. WILCOX	Date ZI MAY 10 Survey Week Number 4
Survey Partner(s)	
Total Acres: Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud	Sity	Wind (range)	Temp (F)
Start 1020	0	clear patchy overcast drizzle shower	0-2mph	60°F
1215	.0	clear patchy overcast drizzle shower	1-3mph.	75°F
		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
Stop 1530	~5	clear patchy overcast drizzle shower	2-5mph	77°F

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

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)	_		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)	_		Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	2121(19	<u>}</u>
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)	-	
Junonia coenia(Common Buckeye)	; (2)		Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	1° ()	
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		[
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	A (10	}
Danaus gilippus (Queen)		-	Pieris rapae (Cabbage White)		1
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)	• 21)	
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)	11 (3)	)	Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		<u> </u>
Erynnis propertius (Propertius Duskywing)		-	WHITE SD.	: (2)	/
Ochlodes agricola (Rural Skipper)			BLVE SP,	7 (9	)
Lycaenidae (Hairstreaks)			CA SISTER	1 61	)
Atlides halesus (Great Purple Hairstreak)			VANESSA SD.		L
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					<u> </u>
Glaucopsyche lygdamus(Southern Blue)					<u> </u>
Icarcia acmon (Acmon Blue)	Ø.(1)				<u> </u>
Celastrina ladon(Echo Blue)					

Surveyor MW Segment # Maps 2-4 Date: 21 May 10

Comments:		
BIRDS MAN	VNAL	
ACWO SDE	Mophilus BEECHEYI	
4 MCD BYLL	rlag US AUD.	
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CATO DHK	LYNDSOMA COR.	
CAQU 500	TOPOCC.	
CATH SCE	TOPORC,	
BHGR JTA	STANS	
CASP		
BUOR		
Plant Communities and Habitat Inform	nation:	
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Host Plants Present: PLANTADO,	CASTINEJA	
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	· · · · · · · · · · · · · · · · · · ·	
Nectar Plants Present: SAME AS	PREVIOUS VISIT,	
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		·
D Quino Sighting D	ate: GPS Location	:
Photographs Taken:		
1.	2.	3.
4.	5.	6.
7.	8.	9.
10.	11.	12.

Location $M$	AP5 5-8, HWY 76	Survey Segment
Surveyor	MEGAUSH	Date <u>5-19-16</u> Survey Week Number <u>4</u>
Survey Partne	r(s)	
Total Acres:	Portion Surveyed:	Elevation: Max Min

Tin	ne (24 hr)	% Cloud		Sky			Wind (range)	Temp (F)
Start	0590	ø	clear patchy	overcast	drizzle	shower	0-8	Eorf
			clear patchy	overcast	drizzle	shower	1	
			clear patchy	overcast	drizzle	shower		
			clear patchy	overcast	drizzle	shower		
			clear patchy	overcast	drizzle	shower		
			clear patchy	overcast	drizzle	shower	,	
Stop	14,30	Ē.	clear patchy	overcast	drizzle	shower		80" P

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

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa(Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta(Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)	Æ	
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	11	
Danaus gilippus(Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)	2	[
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)		· · · ·	Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		[	OTHERS:		1
Erynnis propertius (Propertius Duskywing)		1			
Ochlodes agricola(Rural Skipper)		1	bluesa	5	
Lycaenidae (Hairstreaks)			}		
Atlides halesus (Great Purple Hairstreak)			FPYANIS OF	<u> </u>	
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	1			_	
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)	2				<u> </u>
Icarcia acmon (Acmon Blue)	6				
Celastrina ladon(Echo Blue)					

Surveyor	IN GROUN	Segment # <u> 5-8</u>	Date	
Comments:				
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Plant Communi	ities and Habitat Info			<b></b>
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	<u>(Mi</u>	Land Land		
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Host Plants Pre	esent: Plant	in the still geal in poloh	<u>er</u>	<u>.,                                    </u>
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	Ceri			
	Cer			
Nectar Plants F				
Nectar Plants E				
Nectar Plants F				
Nectar Plants F		ndart		
Nectar Plants H	Present: abu	ndavt		
Quino Sighti	Present: alju.	ndant		
Quino Sight Photographs Ta	Present: alju.	Date: GPS Loc	ation:	
Quino Sighti Photographs Tal 1.	Present: alju.	Date: GPS Loc	ation:	
Quino Sight Photographs Ta	Present: alju.	Date: GPS Loc	ation:	

Adult Survey

Location Maps 9-10 Survey Segment ______ Surveyor NK Date <u>26 May 10</u> Survey Week Number <u>4</u> Survey Partner(s) ______

Total Acres: _____ Portion Surveyed:

Elevation: Max _____ Min

Ti	ime (24 hr)	% Cloud	2		Sky			Wind (range)	Temp (F)
Start	1114	2	clead	patchy	overcast	drizzle	shower	4-8 Gusts = 13	73 (Air-70)
			çlear		overcast				
	· · ·		clear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
		· · · · · · · · · · · · · · · · · · ·	çlear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
Stop	1316	5	clear	patchy	overcast	drizzle	shower	4-6 (queta = 13)	80 (Air-77)

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

Batterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)		•	Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)	-	····
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark) May	ILY W	1
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)	×		Papilio rutulus (Western Tiger Swallowtail)	1	l
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	1111	
Danaus gilippus (Queen)	<u> </u>		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	111	
Hespertdae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sicepy Orange)		
Pyrgus albescens (White Checkered Skipper)		1	Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Gorgan Coppen		
Ochlodes agricola (Rural Skipper)					L
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					1
Callophrys perplexa(Perplexing Hairstreak)					<u> </u>
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)					<u> </u>
Icarcia acmon (Acmon Blue)	ince uttak	411			
Celastrina ladon(Echo Blue)					<u> </u>

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Surveyor <u>NR</u> Segment # <u>Maps 9-10</u> Date: <u>26-May-10</u>

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Comments: Although wind	1 are variable, butterfly a	ctivity remains	reasonably detectable
- Acaron mating		· · · · · · · · · · · · · · · · · · ·	
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Plant Communities and Hal	oitat Information:		
		· •	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Host Plants Present: Cast.	ex Going to seed + still	1 Howaring	<u></u>
<u></u>	···· / ···· / ····	_/	
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· · · · · · · · · · · · · · · · · · ·	······		
		<u> </u>	
Nector Plants Present	the for the second	nuteral clark	in Lien him Chan's an the.
Nectar Plants Present:			
Erid. conf., Penstemon S.	dalreg phac. and Summer		Delphinain, Intolium, Phox, A
	begulas, cal. Clair, port. 4	ild Pez, Cato, spl	, Plagin, Ground Pint, Yanrow,
cap. Sol. par, Gilia, Min.		, · ·	• ,
	, , , , , , , , , , , , , , , , , , , ,		
Cap., Sol. par., Gilia, Min- P-apple weed, Red Maids	, , , , , , , , , , , , , , , , , , , ,		
P-apple weed, Red Maids	, , , , , , , , , , , , , , , , , , , ,	GPS Locatio	n:
	Date:	GPS Locatio	n:
P-apple wind, Red Maids	, , , , , , , , , , , , , , , , , , , ,	GPS Locatio	n:
P-apple weed, Red Maids	, , , , , , , , , , , , , , , , , , , ,	GPS Locatio	n:
Papelo Weed, Red Maids	, , , , , , , , , , , , , , , , , , , ,	GPS Locatio	n: 
P-apdo Wild, Red Maids	Date:	GPS Locatio	3.
P-apdo wied, Red Maids	Date:	GPS Locatio	3. 6.
P-apdo Wild, Red Maids	Date:	GPS Locatio	3.

Quino C	heckerspot	General	Form
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MATURA

Portion Surveyed:

Location SAN DIELO C. Surveyor Construction

Survey Partner(s)

Total Acres:

HENSHILL ANHAR) Survey Segment MAP 94-10 Date 26 mg 2010 Survey Week Number Foul

Elevation: Max

Min

Time (24 hr)	% Cloud			Sky	an an an an an an an an an an an an an a		Wind (range)	Temp (F)
Start 1/8 -20 Am	B	clean	patchy	overcast	drizzle	shower	2 yanth	20*
11-20 AM	Bern	clear	patchy	overcast	drizzle	shower	18-8	27
12=30 pm		<b>che</b> ar	patchy	overcast	drizzle	shower	3-9	73°
1:20 pm	a	clear	patchy	overcast	drizzle	shower	39	750
	and the second second	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)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)	U		Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	5	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme(Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS: / Wasthouden	ZSF	
Erynnis propertius (Propertius Duskywing)			Le anrenne	54	
Ochlodes agricola (Rural Skipper)		1	T. nouficola	3	
Lycaenidae (Hairstreaks)					1
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)		1			<u> </u>
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					<u> </u>
Glaucopsyche lygdamus(Southern Blue)					<u> </u>
Icarcia acmon (Acmon Blue)	10				
Celastrina ladon(Echo Blue)					

Surveyor GRED Charman Segment # 119 9410 Date: 36 un to Comments: - Walt CLOSED CHUNChy - VISCIED ALEBOR RA'S UNITH HOST - APD burnes ONTRACTOR PERS OBSBURN - Coenia wear Castillere (hort) - L. vanticites abundant near (Ramer) - T. gordin (met be com & clougehou Plant Communities and Habitat Information: ROBA TO SUMON THE Host Plants Present: CASTILLEST - AN ALON ALLOS PDS CARGEANETHIS - MON ALLOS PD. (Z-118166) - lefter and the hope Nectar Plants Present: 40000, B. Erscicholmy Revisica, Blue Brais **GPS** Location: **Quino Sighting** Date: **Photographs Taken:** , 1. 2. 3. 6. 4. 5. 8. 9. 7. 12. 11. 10.

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Location Maps 28 - 36	Survey Segment
Surveyor UK	Date Hardon Survey Week Number 4
Survey Partner(s)	· · · · · · · · · · · · · · · · · · ·
Total Acres: Portion Surveyed:	Elevation: Max Min

Ťim	ie (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)
Start	0910	0	Clear	patchy	overcast	drizzle	shower	2-5	67 (Ar - G)
	1.104	0	clear	patchy	overcast	drizzle	shower	1-4 Gesta = 9)	70 (hr-69)
	1254	0	clear	patchy	overcast	drizzle	shower	4-7 (gusta -10)	
			clear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
Ston	1450	0	clear	patchy	overcast	drizzle	shower	363-6/artisk	79 (4, -79)

Butterfly Species	Count (Total)	Hill- topping	Butterily Species	Count (Total)	Hill- töpping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia morma (Mormon Metalmark)		
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)	1		Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)	<b>;</b>		Papilio rutulus (Western Tiger Swallowtail)	i	
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip) Many	Hr 111.	11
Danaus gilippus(Queen)			Pieris rapae (Cabbage White)	7	
Danaus plexippus (Monarch)		1	Pontia protodice (Checkered White)	14H	
Hesperidae			Colias eurytheme (Orange Sulphur)	ſ	
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)	$\  \ $	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		-
Erynnis fureralis (Funereal Duskywing)	411	1	Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			common Sootywing	1	
Ochlodes agricola (Rural Skipper)			CA. Sister		
Lycaenidae (Hairstreaks)					<u> </u>
Atlides halesus (Great Purple Hairstreak)		• 			
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)		<u> </u>		-	
Strymon melinus (Gray Hairstreak)		<u> </u>			<u> </u>
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue) Main	11 11/11	l ve.			<u> </u>
Celastrina ladon(Echo Blue) Jel An		1			

Surveyor	Segment # Maps 28, -36	Date: 10-10
Comments:	· - 7kd	
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Plant Communities and	d Habitat Information:	
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Host Plants Present:	Muninia ( to to e of steep slocod & creek crowing	
	_	
Cornig- beg. to spro	ut	
Coring - beg. to spro Plantago - drying up, kay	to go to seed, but nostly green / jush	
Cornig- beg. to spro Plantago - drying up, key	ut	
Coring - beg. to spro Plantago - drying up, kay	it to go to seed, but mostly green link soing to seed; lower ele. plants almost control, to	5 seed
Coring - beg. to spro Plantago - drying up, bey Cast; ex Flowling & g	it to go to seed, but mostly green link soing to seed; lower ele. plants almost control, to	5 seed
Cornig - beg. to Spro Plantago - drying up, beg Cast, ex Howking & g	ut to go to seed, but mostly green link soing to seed; lower ele. plants elevest control, to Poppele Alcolleg Blue Curlo, Crypt., Liep. but., Esch-cal.; is conf., Perstenson, Trifolium, Ver-why, clear	seed Mustand, Canissonia, Er. cir., athy Cast. off. Belay Blue Eye
Cor.n'g- beg. to Spro Plantago - drying up, key Cast, ex Housing & g	ut to go to seed, but nostly green linsh soing to seed; lower ele. plants almost entirely to Pagele Alcolly Blue Cents, Crypt., Lyn. bei., Esch. cal., is conf., Perstenon, Trifolium, Yee-whip, clean Phac.cein, Lonicerg, Som Mac, Wild Per, Phl	seed weed; Miltimed Sil. gol., Mili. wd Mustand, Caniesonia, Er. cir., ata, Cast. off., Beley Blue Eye
Coring - beg. to spro Pluntago - drying up, beg Cast: ex Howking & g in Neotar Plants Present: Mac. par, lot scop., En Clarkia, Min. aur.	ut to go to seed, but mostly green linsh soing to seed; lower ele. plants almost control, to Popple Alcolly Blue Curlo, Crypt, Lyp. bie., Esch. cal., o conf. Perstmon, Tritohium, Vie-whip, clean Phac.com, Lonicera, Sam Mac, Wild Pea, Phe ph. bic., Cirshum, Plagio, Eniogonum, Striging Ly	5 seed Mut Miltimud Sil. gol., Mili. md Muttand, Canudonia, Ex. cir., atá, Cast. off., Balay Rue Eye. ox, Sys. bel., Dich. cup, Delphini
Coring - beg. to spro Plantago - drying up, beg Cast: ex Howing 4 g in Neotar Plants Present: Prac. pan, lot scop. En Clarkia, Min. au. Min. Ges, Ang. an., Come Sal. colu., Cullia, Yuc. sch	it to go to seed, but mostly green link roing to seed; but nostly green link Papele Alcolly Blue Curls, Crypt., Liep. bie., Esch-cale; is conf., Perstenson, Fritohium, Vice-whip, clean Phac.cin, Innicera, Sam max, Wild Pea, Phe ph. bic., Cirsium, Plagio, Eniogonum, Striging Lie i, Ad. Fasc., Heliuntherman, Calo.spl. Mar. vulgan	Seed Mustand, Canissonia, Er. cir., mustand, Canissonia, Er. cir., atá Cast. off. Baly Blue Eye ox, Sys. bel., Dich cap, Delphini pino lean. buco. Sidaleen, Min. 1 , Pecto., Rel Mards, Helianthus,
Coring - beg. to spro Plantago - drying up, beg Cast: ex Howing 4 Nector Plants Present: Prac. par, lot scop. En Clarkia, Min. au.	ut to go to seed, but mostly green linsh soing to seed; lower ele. plants almost control, to Popple Alcolly Blue Curlo, Crypt, Lyp. bie., Esch. cal., o conf. Perstmon, Tritohium, Vie-whip, clean Phac.com, Lonicera, Sam Mac, Wild Pea, Phe ph. bic., Cirshum, Plagio, Eniogonum, Striging Ly	Seed Mustand, Canissonia, Er. cir., mustand, Canissonia, Er. cir., athe Cast. off. Bely Blue Eye ox, Sys. bel., Dich cap, Delphini pino lean. buco. Sidalea, Min. 1 , Pecto., Red Mards, Helianthus,
Coring - beg. to spro Plantago - drying up, beg Cast: ex Housing 4 g in Nector Plants Present: Prac. par, lot scop. En Clarkia, Min. au. Mm. Elg., Ang. an., Com Sal. colu., Cillia, Yuc. sch Quino Sighting	it to go to seed, but mostly green link roing to seed; but nostly green link Papele Alcolly Blue Curls, Crypt., Liep. bie., Esch-cale; is conf., Perstenson, Fritohium, Vice-whip, clean Phac.cin, Innicera, Sam max, Wild Pea, Phe ph. bic., Cirsium, Plagio, Eniogonum, Striging Lie i, Ad. Fasc., Heliuntherman, Calo.spl. Mar. vulgan	Seed Mustand, Canissonia, Er. cir., mustand, Canissonia, Er. cir., atá Cast. off. Baly Blue Eye ox, Sys. bel., Dich cap, Delphini pino lean. buco. Sidaleen, Min. 1 , Pecto., Rel Mards, Helianthus,
Coring beg. to Spro Plantago - drying up, bey Cart: bx Howking 4 Wheetar Plants Present: Prac. pr., Who scop. En Clarkia, Mun.au Mm. beg., And, an Crime Sel. colu., Cullia, Juc. sch Quino Sighting Photographs Taken:	ut to go to seed, but mostly green linsh soing to seed; lower ele. plants almost centriel, to Popple Alcolly Blue Curls, Cript., Lyn. bit., Esch-cal.; is conf., Perstroom, Tritolium, Vue-whip, clean Phac. civ., Lonicera, Sam Macx, Wild Pea, Phel ph. bic., Cirssium, Plagio, Eniogenum, Striging Ug i, Ad. Fasc., Heliantheman, Calo Sal, Men. Vulgand Date: GPS Locatio	5 seed Mutterd, Milkingd Sil. gol., Mili. und Mutterd, Canudsonia, Er. cir., atá, Cast. off., Baky Blue Eye ox, Sys. bel., Dich. cap, Delphini pino lean. leuco, Sidalea, Min. l pino lean. leuco, Sidalea, Min. l pino lean. leuco, Sidalea, Min. l picto., Red Mards, Helianthus, m:
Corrig- beg. to Spro Plantago - drying up, beg Cast: 1x Howing 4 g in Nector Plants Present: Mar. pan, Wor scop. En Clarkia, Min. au Mm. beg., Ang. an., Com Sal. colu., Cullia, Yuc. sch Quino Sighting Photographs Taken: 1.	ut to go to seed, but mostly green linsh going to seed; lower ele. plants elevest centriel, to Poppele Alcolly Blue Curlo, Crypt., Liep. bit., Esch-cal.; is confr. Perstenson, Infolium, Vie-whys, Clear Phac.ci., Lonicera, Sam Macz., Wildel Pea, Phel ph. bic., Cirsium, Plagio, Eniogenum, Striging Cur i, Ad. Fasc., Helianthemison, Calo-spl., Men. Viegane Date: GPS Locatio	5 seed went Miltiment Sil. gol., Meli. not Mustand, Caniesonia, Ex. cir., ata, Cast. off., Bely Blue Eye ox, Sys. bel., Dich. cop, Delphini pino Cen. Conco. Sidalea, Min. 1 pino Cen. 1 pi
Connig- beg. to Spro Plantago - drying up, beg Cast: ex Howering 4 Superar Plants Present: Plac. pas., who scop. En Claskia, Mun. au Mar. beg, Ang, and, Come Sal. colu., Cullia, Juc. sch Quino Sighting Photographs Taken:	ut to go to seed, but mostly green linsh soing to seed; lower ele. plants almost centriel, to Popple Alcolly Blue Curls, Cript., Lyn. bit., Esch-cal.; is conf., Perstroom, Tritolium, Vue-whip, clean Phac. civ., Lonicera, Sam Macx, Wild Pea, Phel ph. bic., Cirssium, Plagio, Eniogenum, Striging Ug i, Ad. Fasc., Heliantheman, Calo Sal, Men. Vulgand Date: GPS Locatio	5 seed Mutterd, Miltimed Sil. gol., Meli. und Mutterd, Canussonia, Ex. cir., atá, Cast. off., Beky Blue Eye ox, Sys. bel., Dich. cap, Delphini pino lean. leuco, Sidalea, Min. l pino lean. leuco, Sidalea, Min. l pino lean. leuco, Sidalea, Min. l picto., Red Mards, Helienthus, m:

Quino Checkerspot General Form	Adult Survey
Location Rob FICKCher Chydmaia Plak	Survey Segment Maps 30-33
Surveyor While Gamma Date	5/20/16 Survey Week Number 4

Survey Partner(s) _____ Total Acres: _____ Portion Surveyed: __

:

the start

Elevation: Max _____ Min

Time (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)
Start 0920	04	clear	patchy	overcast	drizzle	shower	3-5m	72°F
1045	0911	olear	patchy	overcast	drizzle	shower	5-9	63.60
1200	02	clear	patchy	overcast	drizzle	shower	4-6	14.50
1300	0%	clear	patchy	overcast	drizzle	shower	6-8	68.8'
1330	0%	clear	patchy	overcast	drizzle	shower	6-8	10°F
		clear	patchy	overcast	drizzle	shower		
Stop		clear	patchy	overcast	drizzle	shower		

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

Butterfly Species		Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	1	
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Chèckerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta(Mylitta Crescent)	1		Brephidium exilis(Western Pygmy-Blue)		,
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)	-	
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthochariscethura (Desert Orangetip)		
Danaidae		· · ·	Anthocharis sara (Sara's Orangetip)	1	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		,
Danaus plexippus (Monarch)	1		Pontia protodice(Checkered White)	11	1
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)		•	Satyridae (Satyrids)		
Erynnis funeralis (Funeteal Duşkywing)	(	1	Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Bluese	111	
Ochlodes agricola (Rural Skipper)	1		TAWSSA SP.	1	1
Lycaenidae (Hairstreaks)			SKIDDA SA	1 .	1
Atlides halesus (Great Purple Hairstreak)			·····		
Incisalia augustinus(Western Brown Elfin)	1.				
Callophrys perplexa(Perplexing Hairstreak)	11	1			
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue)	111	N			
Celastrina ladon(Echo Blue)	NW I	NH1			

Surveyor 1406/1466

Maps 30-33 Segment # UNY Ampich 74 Bate: 5/20/68

Comments:		
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Plant Communities and Habitat Inform	nation: FIM MCDUlainE	Chapper All
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Host Plants Present: MICIG	······································	· · · · · · ·
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Nectar Plants Present: Fromus Sp.	Umstantha SO, MABidadh	us sp Canissonia su
MITCING SAISON MELCI	LA CLEIIG DUADAR	NEMMEN
MATLMAL EGULON MIMIL	E MISTE PENSOF	11/1/1
MICHMI TRIPAR SISRE	UELSLO AMSMEN	LIN FLO
LAPHIE MEAFOU DEALE	DILLAP   UPAIL	tritolynse Unapun con
$\square$ Quino Sighting $D$	Pate: GPS Location	
	Grs Location	
	·	
Photographs Taken:		
1	2.	3
4.	5.	6.
7.	8.	9.
10.	11.	12.
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Location Ma,	15 40-44	Survey Segment	
Surveyor	montation	Date <u>5/21/10</u> Survey We	eek Number <u>4</u>
	n. Limball		·
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud			Sky	ىرىيى مەربىيە ئېچىلىكى بىرى		Wind (range)	Temp (F)
Start 0903	0	clear		overcast		shower	0-5 mph	64.5
		clear	patchy	overcast	drizzle	shower		
11:37	Ø	clear	patchy	overcast	drizzle	shower	8-10 (gusta 12)	74
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop 12:37	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)			Leptotes marina (Marine Blue)		L
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa(Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	1/		Everes amyntula (Western TailedBlue)		İ
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	LH	
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		[
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	11	
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)	· ·	
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae	•		Anthocharis sara (Sara's Orangetip) //	14	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)	1	
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordíi (Harford's Sulphur)	1/	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens(White CheckeredSkipper)			Satyridae (Satyrids)		
	1411		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)	8	[			1
Ochlodes agricola(Rural Skipper)	<u> </u>	1			
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)				1	1
Incisalia augustinus(Western Brown Elfin)				<u> </u>	
Callophrys perplexa(Perplexing Hairstreak)					1
Strymon melinus (Gray Hairstreak)	-				
Glaucopsyche lygdamus(Southern Blue)		1		T	T
Icarcia acmon (Acmon Blue) UPA 1111	1				T
Celastrina ladon(Echo Blue)	ШŔ			<b>I</b>	

Surveyor	Segment # 7.1ap2	<u>9 40 - 44</u> Date: <u>21 - May - 10</u>	
Comments:			-
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Plant Communities and Habi	tat Information:		
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Host Plants Present: Plantage	ovata CAEX		
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		· · · · · · · · · · · · · · · · · · ·	
		. <u>.</u>	
Nectar Plants Present: ZAL	E, ERCI, Crypt. sp. HIIN,	Camiss.sp., ERFA, PHPA, DICA, I PESP SOPA, MIBR, YUWH, M BI, FRBO, CAAF, PHCI, Gilla sp., V	LUHI
HYGL, ERCO. CACA, TRLA,	LOSC, ADFA, SIGA, MIAU	PESP SOPA, MIBR, YUWHIM	<u> 1 I CL_</u>
ALLAR CIBL Eristrum op	MANN, PELE, CAST, GN	BI, FRVO, CAAF, PHCI, Gilla SP., V	haca s
ANAR, CLPU, NAHA; CHP	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
Quino Sighting	Date: GF	PS Location:	
		· · · · · · · · · · · · · · · · · · ·	
Photographs Taken:		- · · · · · · · · · · · · · · · · · · ·	
1.	2.	3.	
4.	5.	6.	· .
7.	8.	9.	
10.	11.	12.	
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Location	Maps	40-44	 
Surveyor	NK		 
Survey Par	tner(s)	NM	 

Total Acres: _____ Portion Surveyed:

Surv	ey Segment	
Date 21-May	-/0 Survey Weel	k Number <u>4</u>
	Elevation: Max	Min

an	11111	

Tir	ne (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)
Start	0855	0	etëar	patchy	overcast	drizzle	shower	1-4	69 (Air - 67)
	1137	U	Tear	patchy	overcast	drizzle	shower	8-10 Gusta =12	74(Kr 70)
					overcast				
			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 - 7)

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

Butterfly Species	Count (Total)	Hill- topping	ButterIly Species	Count (Total).	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	W IX	AK AHI	Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	lų –	
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)		·-	Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	1	
Danaus gilippus (Queen)		1	Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		1	Pontia protodice(Checkered White)		
Hesperidae		[	Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)	V	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe(Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funercal Duskywing)	11		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Marine Blue CA. Sentin	N	
Ochlodes agricola(Rural Skipper)			CA. Sinter	7	
Lycaenidae (Hairstreaks)		·			
Allides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)					<u> </u>
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue) Maw	m the 11	11/			
Celastring ladon(Echo Blue)	A.	1			1

	NK	Segment # <u>Mapo 41 - 44</u>	Date: <u>21-May -10</u>
Comments:	Gappin in large #:	's Inewly enverged, fattered lad, O, 4,	gravid &, mating, cectoring)
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Plant Com	munities and Habita	at Information:	
1 faire Com			
<u> </u>			
1	ts Present: / dunk	etop of his nely to IS	· · · · · · · · · · · · · · · · · · ·
Host Plan			·
Host Plan			
		ud, Phlor, Clarkin, Lots sup, Eris, conf	1. 14 La Luce, Sol. ecan Calina
	ants Present: Musta Crust Dich.co. Sie	ud, Phlor, Clarking Lots soop, Eris. conf When, Prepole word, Sign- bol, Wostly Bud L	1. Yuc. whip-, Er. cico En'ogonum unla Ad. fasc., Sal. par, Cality,
	ants Present: Musta Crypt, Dich. cq ^o .; Sie	ud, Phlox, Clarkin, Lots scop, Eris. conf delica, Propole word, Sipp bet, Wosty Bug C U;	1. Yuc. whip-1 Er. cics En'sgonum unla Ad. fase, Sal. par, Esting
Neetar Pla Lug-bic. 1	ants Present: Musta Crust Dich.co. Sie		
Neetar Pla Lup-bic. 1 Loration	ants Present: Musta Crust Dich.co. Sie	ud, Phlox, Clarkin, Lotz scop, Erio. conf delica, Propole word, Syp. bet, Woolly Blue L U; Date: GPS Locat	
Neetar Pla Lug-bic. 1 Loratiun	ants Present: Musta Crypt, Dich. cq ^o , Sid y Pagia, Mán, Vulgan Sighting		
Neetar Pla Lug-bic. 1 Loratiun	ants Present: <u>Musta</u> Crypt, Dich. cg ^o , Sie y Plazie, Mar. Vulgan		tion: 3.
Neetar Pla Lug-hir. 1 Lohadium Quino Photograp	ants Present: Musta Crypt, Dich. cq ^o , Sid y Pagia, Mán, Vulgan Sighting	Date: GPS Locat	tion:

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Quino Checkerspot General Form Buckmen Sprys	Adult Survey
Location Jacumba (Golder Acorn Casino Cristinvey Segment Maps 71-74	<b>.</b>
Surveyor Laune (10 rman) Date 5-19-10 Survey Week Number 4	_
Survey Partner(s) Nicoll Kindsall	_
Total Acres: Portion Surveyed: Elevation: Max Min	-

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start 0900	01.	clear patchy overcast drizzle shower	0-4 mph	64.4°F
1142	0%	clear) patchy overcast drizzle shower	1-3 mph	PR.OF
	- 1	clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower	-	
		clear patchy overcast drizzle shower		
Stop 1419	61.	clear patchy overcast drizzle shower	3-8 mph	86.0F

Habitat onsite (circle as applicable) hilitops, sidges, lock outcrops, open soils soil crusts, clay soils, old roads? Plantago, Castilleja, Cordylanthus, Antirrhinum, nectar sources,

Butter(ly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- fópping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	111	
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	THA)		Everes amyntula (Western TailedBlue)		
Phycoides mylitta(Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metal Mark 1411)	1411	
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)	1	
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		1111
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)	1	
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	THE	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)	1	
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)	$\mathbf{N}$	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)		•	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	nt -		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)	•		OTHERS:		1
Erynnis propertius (Propertius Duskywing)			California tortaseshall	1	<u> </u>
Ochlodes agricola(Rural Skipper)			California tortaseshell Vanissa Se	11	
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)				1	
Incisalia augustinus(Western Brown Elfin)				Ţ	
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)		-			
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue)	NJ MATH				1
Celastrina ladon(Echo Blue)				1	

Location Mars 49+50	Survey Segment
Surveyor N. Moochatch, L. Gorman	Date <u>4/30/2010</u> Survey Week Number <u>4</u>
Survey Partner(s)	
Total Acres: Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud		Sky			Wind (range)	Temp (F)
Start 11:45	~20	clear patch	y overcast	drizzle	shower	0-1mph	68.7
/2:35	~15	clear patch	y overcast	drizzle	shower	6-11 mph	64.0
*		clear patch;	y overcast	drizzle	shower		
		clear patch	y overcast	drizzle	shower		
, <u>, , , , , , , , , , , , , , , , , , </u>		clear patch	y overcast	drizzle	shower		
	· · · · · · · · · · ·	clear patch	y overcast	drizzle	shower	·	
Stop 13:45	~15	(clear) patch	y overcast	drizzle	shower	1-6mph	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- töpping
Nymphalidae (Brush Footed Butterflies)		<u>.</u>	Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa(Melissa Blue)		
Charidryas gabbii (Gahb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		_
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	1	
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	111		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip) 1	ILT	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)	1/	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)	1	
Erynnis fureralis (Funereal Duskywing)	1		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)	1		OTHERS:		
Erynnis propertius (Propertius Duskywing)			Erynnis SP.	1	
Ochlodes agricola(Rural Skipper)			Erynnis 3P. UnId'd Blue	1	
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					ļ
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)				1	<u> </u>
Glaucopsyche lygdamus(Southern Blue)	\$1				
Icarcia acmon (Acmon Blue)					
Celastrina ladon(Echo Blue)					

Surveyor _	NM & LG	Segment # 49 + 9	50 Date: <u>30-Apr-10</u>
Comments:	,,,,,,,,		
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Plant Comm	inities and Habitat Inform	nation: Chamise / Sou	there Mixed Chaparral
	<u> </u>		
<u> </u>	· · · · · · · · · · · · · · · · · · ·		······································
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Host Plants I	Prosonti 2		
	Present: CASHilleja	exertsa	· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·			
	· • • • • • • • •		
Casti		Lupinnssp.	Keckiella ant.
Nectar Plants	s Present: Guiterrez	la sr. Dichelostemma	- Calystria (W. bind word)
	cutarium Allium sp.	· · · · · · · ·	niama, Scarlet pimpernell
······································	· , ·	macrocarpa Coyptantha sp.	
	lencodernis Melilotu.		
Quino Sigl		Date: Silene gallice GPS Locatio	n: Lotus scopacius
Photographs T	Taken:	1	
1.	· · · · · · · · · · · · · · · · · · ·	2.	3.
4.		5.	6.
		8.	9.
10.		11.	12.

Quino Checkerspot General Form	Adult Survey
Location BAILOF LAILE N Map 5/ Survey Segment TLOTS Surveyor 106 PAHAW - CG Date 4/2018 Survey Week Number Survey Partner(s) 10 LOLE 14-9 Alf - A AM Total Acres: Portion Surveyed: 70105 67143 - 671440 Elevation: Max Min	
Time (24 hr) % Cloud Sky Wind (rauge)	Temp (F)

Time (24 hr)	% Cloud	Sky	<u>,</u>	Wind (range)	Temp $(F)$	]. \
Start 0/6	15%	clear patchy overca	st drizzle shower	2-3-00	58,50 (in	CLOW
1045	25	clear patchy overca	st drizzle shower	3.4	40,30	
1145	20	cleap patchy overca	st drizzle shower	4-6	63.40	
1215	20	clear patchy overca	ast drizzle shower	4.6	660	-
		clear patchy overca	ast drizzle shower			
		clear patchy overca	ist drizzle shower	 		
Stop		clear patchy overca	ast drizzle shower			

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

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	17	-	Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorguini(Lorguin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)		<u> </u>	Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)	_	
Danaidae			Anthocharis sara (Sara's Orangetip)	3	1
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		ļ	Pontia protodice(Checkered White)		1
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)		·····	Colias harfordii (Harford's Sulphur)	1	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		ļ
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		$\square$
Erynnis fureralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		<u> </u>
Erynnis propertius (Propertius Duskywing)			Benrs Netal Mak	3	2
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)				_	
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)	_			_	<u> </u>
Callophrys perplexa(Perplexing Hairstreak)					<u> </u>
Strymon melinus (Gray Hairstreak)					
Glaucopsyche hygdamus(Southern Blue)					$\perp$
Icarcia acmon (Acmon Blue)	3	2			<u> </u>
Celastrina ladon(Echo Blue)		L.			

Map 51 Surveyor Tab Abetcher TL 62 Segment # lent **Comments:** ) E E G Plant Communities and Habitat Information: 61/61/00/MMG Mix h Securents manaces 10 DINO 110, Int Upit ht InA1 Host Plants Present: ASEXE, PLACILE, WITCH Nectar Plants Present: 'Mi SMINIA 60 SID. SYR 9017 GNACAL. ILHUOVA LAN AIT. CEALEU. MAC LAL MAC Quino Sighting Date: **GPS** Location: Photographs Taken: 7 1. 2, 3. 4. 5. 6. 7۰ 8. 9۰ 10. 11. 12.

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Adult Survey

Location Mans 52,43,44 Surveyor N. Moorhates L. Gorman	Survey Segment Date $5/05/10$ Survey Week Number $4-52+2-43+4$
Survey Partner(s)	
Total Acres: Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud			Sky	م من من م		Wind (range)	Temp (F)
Start 0832	0			overcast		shower	0-1	65
		clear	patchy	overcast	drizzle	shower		8
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		<u> </u>
		clear	patchy	overcast	drizzle	shower		
Stop 1430	0	clear	patchy	overcast	drizzle	shower	0-6	80

Butterfly Species		Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		L
Euphydras chalcedona(Chalcedon Checkerspot)	1		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)	-		Apodemia mormo (Mormon Metalmark) 441	11	· · ·
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		ļ
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	-		Pieridae (Whites and Orangetips)		L
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		Ĺ
Danaus gilippus (Queen)		1	Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	_	
Hesperidae			Colias eurytheme (Orange Sulphur)		<u> </u>
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)	_	<u></u>
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		<u> </u>
Erynnis propertius (Propertius Duskywing)			UnIt'd Duskywing	1	
Ochlodes agricola(Rural Skipper)	-				- <u>-</u>
Lycaenidae (Hairstreaks)					<u> </u>
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)	_				
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					<u> </u>
Glaucopsyche lygdamus(Southern Blue)					<u> </u>
Icarcia acmon (Acmon Blue) 141 141 141 141	Ht ILH	HHI			
Celastrina ladon(Echo Blue)		1			

Surveyor <u>LG</u>, <u>NM</u> Segment # <u>Maps 52</u>, <u>43-44</u> Date: <u>06-May-10</u>

Comments:		
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Plant Communities and Habitat Inform	nation:	
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Heat Planta Presente d' d'		
Host Plants Present: Castilleja exs	serta	
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Nectar Plants Present:	when I willow and MITS I and	South I active when to all
Nectar Plants Present: Lupinus bic	old, Lasisonia Cal, Ileg-	TPS Erodiam Ciccitariam
Eradium botrys, Sisymprium St. D.	elphinium passys Salura colum	basine, Jucia inhipples, Dichelos & man
capitatum, Phacelia cica, Clarkin	pacp. Cryptantha sp. Meliloh	is Indice, Lotus sp. Penstemon
centranthi, Camissonia se., Helistre	Pium curras. Plagiobethrys s	Poony, Rock pen Lupinus Sp.
Scarlet Dimpermeil Silene pailies (sna	phalium so Clautonia perfol	inta Sanicula sp. Sidalcon melu Flor
Scarlet pimperneil, Silene gallica, (sna Quino Sighting Phacelia paryi D	CPS Location	· Castille & rod Tricke tenser
- Quinto orginaling Phacelia phoryi D	America Kis men OI & Location	
Photographs Taken:		
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Adult Survey

Location	Survey Segment Map 52	
Surveyor Laune Goorman	Date 5-6-10 Survey Week N	
Survey Partner(s) Nate Moorkatch		
Total Acres: Portion Surveyed:	Elevation: Max	Min

Tì	me (24 hr)	%Cloud		dê şi de	Sky	t v trans	307 (S. S.	- Wind (range) -	
Start	0832_	67	clear	patchy	overcast	drizzle	shower	0-1mph	65°F
			clear	patchy	overcast	drizzle	shower		-
			clear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
		<b>a</b> .)	clear	patchy	overcast	drizzle	shower		
Stop	1430	07	clear	patchy	overcast	drizzle	shower	D-bunch	80°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 1 (Total) to		Count (Total)	Hille Topping
Nymphalidae (Brush Footed Butterflies)		Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)		Philotes sonorensis (Sonoran Blue)	_	
Euphydras chalcedona (Chalcedon Checkerspot)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)		Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)		Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)		Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)		Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)		Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)		Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)		Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)		Anthocharis cethura (Desert Orangetip)		
Danaidae		Anthocharis sara (Sara's Orangetip)	1	L
Danaus gilippus (Queen)		Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		Pontia protodice (Checkered White)	1	
Hesperidae		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		Colias harfordii (Harford's Sulphur)		
Hylephila phyleus (Fiery Skipper)		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)		Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Moumful Duskywing)		OTHERS:		
Erynnis propertius (Propertius Duskywing)		Common with the		
Ochlodes agricola (Rural Skipper)				
Lycaenidae (Hairstreaks)				
Atlides halesus (Great Purple Hairstreak)				
Incisalia augustinus (Western Brown Elfin)				
Callophrys perplexa (Perplexing Hairstreak)				
Strymon melinus (Gray Hairstreak)				
Glaucopsyche lygdamus (Southern Blue)				
Icarcia acmon (Acmon Blue)	UTUT			
Celastrina ladon (Echo Blue)				

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Surveyor	6	Segment #_ <u>Ma</u>	p 52	Date: 06 May 10	• 
Comments:	- 4-				
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Plant Commu	nities and Habitat	Information:			
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		Notest a 11			
				· · · · · · · · · · · · · · · · · · ·	
Host Plants Pi	resent: Castille	ia exerta	-		
				·	
Nectar Plants	Present: Tidy +	ips, Lupinus bicolor, Las	this a californi		distans,
Pharolia profil	Perstenon certra	Atritolius, Keckiella artive	hinoides Cryptha Calusteasa naci		<u>mis</u> iifol
Chia, Delph	nium parryi, C	A POPPY Fristhyllum con	fertifloren, Ade	10 stona Eschulatum	
Quino Sight	na copitatum	<u>Chaennett's glabriuscula</u> Date: 0	PS Location:	-	_
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Photographs Ta	iken:				
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Location $M_{\alpha\beta} = 54$	Survey Segment       Date     30-449-12       Survey Week Number     4
Surveyor <u>NC</u>	
Survey Partner(s) Total Acres: Portion Su	rveyed: Elevation: Max Min

Time (24 hr)	% Cloud		Sky			Wind (range)	Temp (F)
Start 10.25	10	clear-patchy	overcast	drizzle	shower	2-5	61 (Ar-58)
		clear patchy	overcast	drizzle	shower		69 1-1-
		clear patchy	overcast	drizzle	shower		
<u> </u>		clear patchy	overcast	drizzle	shower		
<u> </u>	· · · · · · · · · · · · · · · · · · ·	clear patchy	overcast	drizzle	shower		
	<u> </u>	clear patchy	overcast	drizzle	shower		
Stop 13/1	15	clear->patchy	overcast	drizzle	shower	4-6	=== (An c -= 1)

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

	U	(# <u></u>	Date: <u>0^AP(~</u>
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Plant Communities and Habitat Inform	nation:		
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	a <del>n</del>		
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Host Plants Present:			
Host Plants Present:			
Host Plants Present:		· · · · · · · · · · · · · · · · · · ·	
Host Plants Present:		· · · · · · · · · · · · · · · · · · ·	
Host Plants Present:			
			an Video in the first second of the
Host Plants Present: Nectăr Plants Present: Crupto State Support Anarodo Marman			any Valence Lot Scorp. Co
Nectár Plants Present: Crupter Star -490., Know Worm			
Nectar Plants Present: Crypton 2000			the self the man in the
Nectăr Plants Present: Crupto Star Harris Martine Martine Ecclusio II and Star		ι	<u>de altre de contra la</u> <u>esta antida de contra Gran</u>
Nectár Plants Present: Cupto Diana - 220, La marcon Marmania - Catanta di marchine			<u>de altre de contra la</u> <u>esta antida de contra Gran</u>
Nectár Plants Present: Cupto Sighting		ι	<u>de altre de contra la</u> <u>esta antida de contra Gran</u>
Nectár Plants Present: Crupto Signing D Photographs Taken:	Date:	ι	n:
Nectár Plants Present: Crypton 	Date:	ι	n: 3.
Nectar Plants Present: Crupter 2000 -2000, Know Warm Cetainly Cetainly Quino Sighting Photographs Taken: 1. 4.	Date:	ι	a:
Nectár Plants Present: Crupto Diana Sector Marca Celuita Quino Sighting Photographs Taken: 1.	Date:	ι	n: 3.

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Quino C	heckerspot General Form	ines/ 1		Adult Survey
Location	Jaumba (Golder Acorn (	Sive Crit	ment Maps 71-74	ŀ
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)	<b>Temp</b> ( <i>F</i> )
Start 0900	01.	clear) patchy	overcast	drizzle	shower	0.4 mph	64.4°F
1142	0%	clear) patchy	overcast	drizzle	shower	1-3 mph	F8.0°F
<u>}' · · · · · · · · · · · · · · · · · · ·</u>		clear patchy	overcast	drizzle	shower		• -
		clear patchy	overcast	drizzle	shower		
		clear patchy	overcast	drizzle	shower	·	
		clear patchy	overcast	drizzle	shower		
Stop 1419	D/.	clear patchy	overcast	drizzle	shower	3-8 mph	86.07

Butterfly Species		Híl)- topping	Butterfly Species	Count (Total)	Hill- töpping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	$  \mathcal{U}  $	
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	THAT		Everes amyntula (Western TailedBlue)		
Phycoides mylitta(Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalimark ///////	144	
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		111
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	141	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Quoti)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum(Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	$\overline{\mathbf{N}}$	
Hylephila phyleus(Fiery Skipper)	·		Eurema nicippe (Sleepy Orange)	1	
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		<u> </u>
Erynnis fureralis (Funereal Duskywing)	- III		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS!		
Erynnis propertius (Propertius Duskywing)			California tortaiseshell	1	
Ochlodes agricola (Rural Skipper)			Vanissa sa	11	
Lycaenidae (Hairstreaks)		1			
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)				-	
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)		1			
Icarcia acmon(Acmon Blue)	ANN MAR				
Celastrina ladon(Echo Blue)		1			

Surveyor L Gorman Segment # Maps 71-74 Date: 5-19-10

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Comments:		
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Plant Communities and Habitat Inform	nation:	
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Host Plants Present: Collinsia c	Ar	
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Nectar Plants Present: PEN SPE CN	ptanthe Sp., Erstium sp.	Camissonia Sp., LOT SCO,
		Composition 2., EUL SCO,
		AL, PHA DIS, CAIA
PENCEN OTTA PAR, Minutus	S. ANA ARV YUCWHIL,	SOLXAN, LUP BIC, DICCHR
PHA BRA Playpobothmisso.	VUCSICH	
Quino Sighting D	ate: GPS Location	
	GFS LOCAUO	<u></u>
Photographs Taken:		
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Location <u>BUCKAA</u> Surveyor <u>M.WIL</u>	COX '	$\cup$		Date ]	Survey	Segment_ 10 Surv	MADS MS-1 vey Week Number	075-069 4	
Survey Partner(s) _N(c	COLEK	MB4							
Total Acres:	Portion Surv	eyed:			E	levation: N	/lax 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	001	clear	patchy	overcast	) drizzle	shower	2-4	770F	
1355	80	clear	patchy	overcast	) drizzle	shower	2-4	81°F	
/		clear	patchy	overcast	drizzle	shower	· · · · · · · · · · · · · · · · · · ·		

drizzle

drizzle

shower

shower

Stop	clear	patchy	overcast	drizzle	shower		
Habitat onsite (circle as	applicable): hilltops	Fidges	ck outcrop	open so	oils, soil crust	ts, alay soils, old ro	ads, Plantago,
Castillaia Cordulanthu			- nov.	SIA		+1	RAINS

overcast

overcast

Castilleja, Cordylanthus, Antirrhinum, nectar sources

clear

clear

patchy

patchy

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Butterfly Species	Count (Total)	Hill- topping	Butter II Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	• U)	
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa(Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	10)		Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		a
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	×:1()	)
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		Ĺ
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	13 8	)
Danaus gilippus(Queen)			Pieris rapae (Cabbage White)		1
Dangus plexippus (Monarch)			Pontia protodice (Checkered White)	112	
Hesperidae		<u> </u>	Colias eurytheme (Orange Sulphur)		1
Heliopetes ericetorum(Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	1.	ľ
Hylephila phyleus(Fiery Skipper)		†	Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)		1	Satyridae (Satyrids)		1
Erynnis funeralis (Funereal Duskywing)	:(2)		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Moumful Duskywing)		<u> </u>	OTHERS:	_	
Erynnis propertius (Propertius Duskywing)	·	1			
Ochlodes agricola(Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)		Ŧ			
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					<u> </u>
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon(Acmon Blue)	2/1				
Celastrina ladon(Echo Blue)	1 ·				

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Surveyor	M.	KII	~COX
our cyor		12 11 11	$\sim \sim 2.5$

Segment # Maps 70-77 . Date: 17 May 10

Comments:		
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Plant Communities and Habitat Inform	nation:	
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Host Plants Present: Collos A cov	<u>/</u>	
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ANAGALUS ANUEN, GILLA SP	leuron alla topi	ADDALLIA CON #
ESCHELTZLA CA, CAMISSINUS Neetar Plants Present: MUSTAK DS C		Dhalvn eontt
	BYDTANTLIA, YUCCA WHELL	
VELLOW COMPOSITES DUACE VANDU, RUECURUS LUD		, SM. YELL/OF LOTUS
KEEKIEULA ANT, OALDCHUR		SM. YELL'OF LOTUS
		TAMON SD- LASTHENLA
	ate? GPS Location	
Photography Talyon		· · · · · · · · · · · · · · · · · · ·
Photographs Taken:	· · · · · · · · · · · · · · · · · · ·	
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Adul	t	Su	r۷	ey
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Location	Map 74-71	
Surveyor	NK	Dat
Survey Par	tner(s)	
Total Acre	s: Portion Surveyed:	

Survey Segment______ te <u>H-May - 10</u> Survey Week Number <u>4</u> Elevation: Max _____ Min _____

Tì	me (24 hr)	% Cloud			- Sky			Wind (range)	Temp (F)
Start	0818	Q.	clear		overcast		shower	0-1	67 (Air-62)
	1142	Ö	clear	patchy	overcast	drizzle	shower	1-3	88 (A'r-0)
			clear	patchy	overcast	drizzle	shower		-
	u		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	28.86

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)	L	
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Mymphalic antiona(Mourning Cloak)		[	Apodemia mormo (Mormon Metalmark)	ALTHY	how
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	1	
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)	1	
Vanessa cardui (Painted Lady)	If .		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip) Many	++++ ///	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)	V	
Hesperidae			Colias eurytheme (Orange Sulphur)		-
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)	HET	
Hylephila phyleus(Fiery Skipper)	-		Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		<u> </u>
Erynnis funeralis (Funereal Duskywing)	11		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		T	OTHERS:		<u> </u>
Erynnis propertius (Propertius Duskywing)	-		Becker's Wh.	<u> </u>	
Ochlodes agricola(Rural Skipper)			marine Bl.	¥K.	
Lycaenidae (Hairstreaks)				]	
Atlides halesus (Great Purple Hairstreak)		T			
Incisalia augustimus(Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)		Ţ		<u> </u>	<u> </u>
Strymon melinus (Gray Hairstreak)					<u> </u>
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue) Mann	HIT	1			
Celastrina ladon(Echo Blue)	16	1			1

Surveyor <u>NK</u> Segment # <u>Map 74 - 71</u> Date: <u>19 May -10</u>

I WHIATING LINGARDONA	tra Jurca Ebladas Francis	= Ad. Fasc., W/ Santo, red shank, Art. H
anercos, cyeninopun	may fucer france, c noganuf	2 Can in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec
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Plant Communities a	nd Habitat Information:	
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Host Plants Present:	Collet . La Debra have to co	A contra to to to to to to to to to to to to to
Host Plants Present:	Collinsia, Con rig. 60g. 75 591	rout, Arot, coult, is flowering (very the
Host Plants Present:	Collinsia, Conivig: beg. to sp	rout, Arot, coult, is flowering (very Eu .
Host Plants Present:	Collinsia, Con. rig. beg. to sp	rout, Arot. coult. is Howeving (very in s
Host Plants Present:	Collinsia, Con rig. beg. to sp	rout, Arot, coult, is flowering (very ten s
Host Plants Present:	Collinsia, Con rig: beg. to sp	rout, Arot. coult. is Howeving Creay in
Host Plants Present:	Collinsia, Con rig. beg. to sp	rout, Arot, coult, is flowering (very Eu
Host Plants Present:	Collinsia, Con rig. beg. to sp	rout, Arot. could, is flowering (very in s
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	11: Wally Bhue Curls, En cin. ; C	ingt., Pensterion, Lor. Scopy Camissonia, Ser
	1: Wally Bhielands, En cin. , C an Playing, Wastly Luping, 4	
	1: Wally Bhielands, En cin. ) Carplazion, Worldy Luping, e , Philix, Carcal, Relphinium	ingt., Pensterion, Lor. Scopy Camissonia, Ser
Host Plants Present: Led) Nectar Plants Present En's. confr. ulid le Yuc. schir Sil. colup. maero. Yuc. shir, Tu	1: Wally Bhielands, En cin., C a, Playcon, Worthy Luping, e , Phix, Cascal, Relphiniums	ingt., Pensterion, Lor. Scopy Camissonia, Ser
Nectar Plants Presen En's. confr. ulid Re Yuc. schip Sil. column. maero. Yuc. atup. The Evicyonum Minsbe	1: Wally Bhielands, En cin. ) Carplazion, Worldy Luping, e , Philix, Carcal, Relphinium	auct: Pensterion, Lor. Scopy Camilasonia, Ser Silia, Mustrid, Pacto, Amsindia, Phar. a Mini big; Clay, perf., Sol. paris Phar. paris 7
	1: Wally Bhielands, En cin. ) Carplazion, Worldy Luping, e , Philix, Carcal, Relphinium	auct: Pensterion, Lor. Scopy Camilasonia, Ser Silia, Mustrid, Pacto, Amsindia, Phar. a Mini big; Clay, perf., Sol. paris Phar. paris 7
Nectar Plants Presen En's. confr. ulid Re Yuc. schip Sil. column. maero. Yuc. atup. The Evicyonum Minsbe	11: Wally Bhielands, En cir. ; ( Carllagion, Worldy Lipine, e , Phlix, Tas. cal. Relphining, 4, Tips, Saminex, Lup bic., u, Chorizante, Ephedra, Mhispea	Inget, Pensterion, Lot. Scopy Camissonia, Ser Sollia, Mustrid, Pecto, Amsindia, Phac. a Min. big; Clay. perf., Sel. par., Phic. par., 7 Min. aug., Pock Lotus, Chaenactis, Citatium, ing Bells, Cast. officis, Cean. leuco.
Vector Plants Preser En's. confr. ulid Pe Yuc. sching Sil. column Maero. War. alugo. The Evicyonum, Mins. bie Quino Sighting	11: Wally Bhielands, En cir. ; ( Carllagion, Worldy Lipine, e , Phlix, Tas. cal. Relphining, 4, Tips, Saminex, Lup bic., u, Chorizante, Ephedra, Mhispea	Inget, Pensterion, Lot. Scopy Camissonia, Ser Sollia, Mustrid, Pecto, Amsindia, Phac. a Min. big; Clay. perf., Sel. par., Phic. par., 7 Min. aug., Pock Lotus, Chaenactis, Citatium, ing Bells, Cast. officis, Cean. leuco.
Vector Plants Preser En's. confr. 4/1/d fe Yuc. sching Sil. colups. Maero. Yur. atrip. The Evicyonuss. Mins. bie Quino Sighting Photographs Taken:	t: Wally Bhielails, En cin., C a, Playine, Wally Lupine, e , Phlox, Cascal, Relphinium, 4, Tips, Saminex, Lup bic., 11, Chorizantle, Ephedra, Whispea Date:	Capt: Pensterion, Lot. Scopy Camiesonia, Ser Silia, Mustred, Pacto., Amsindia, Phac. a Min. big: Clay. perf., Sol. par., Phac. par., 7 Min. aug., Pock Lotus, Chaenactis, Cusium, ing Bells, Cast. officis, Cean. lauro., GPS Location:
Nectar Plants Presen En's. confr. ulid le Yuc. schip Sil. column Maero. Yur. atup, The Evicyonum, Min-bie Quino Sighting Photographs Taken: 1.	t: Wally Bhielands, En cia.; ( and lagine, Wastly Lupine, e , Phlix, las. cal. Relphining, 4, Tips, Sam. nex., Lup bic., 11, Chorizantle, Ephecks, Whispea Date: 2.	net Pensterion, Lor. Scopy Canvissonia, Ser Silia, Mustrid, Pecto, Amsindia, Phac. a Miniay, Clay perf., Sol. per.), Phace par. M Miniay, Pock Lotus, Chaenaetis, Cusium, ing Bells, Cast. affinis, Cean. lenco., GPS Location: 3.
Vector Plants Preser En's. confr. 4/1/d fe Yuc. sching Sil. colups. Maero. Yur. atrip. The Evicyonuss. Mins. bie Quino Sighting Photographs Taken:	1: Wally Bhielands, En cin.; ( carllancin, Wastly Lipine, e , Phlix, Las. cal. Relphining 4, Tips, Saminex, Lup bic., 11, Chorizantle, Ephedri, Whispea Date: 2. 5.	Capt: Pensterion, Lot. Scopy Camiesonia, Ser Silia, Mustred, Pacto., Amsindia, Phac. a Min. big: Clay. perf., Sol. par., Phac. par., 7 Min. aug., Pock Lotus, Chaenactis, Cusium, ing Bells, Cast. officis, Cean. lauro., GPS Location:
Nectar Plants Presen En's. confr. ulid le Yuc. schip Sil. column maero. Yur. atup, The Evicyonum, Min-bie Quino Sighting Photographs Taken: 1.	t: Wally Bhielands, En cia.; ( and lagine, Wastly Lupine, e , Phlix, las. cal. Relphining, 4, Tips, Sam. nex., Lup bic., 11, Chorizantle, Ephecks, Whispea Date: 2.	net Pensterion, Lor. Scopy Canvissonia, Ser Silia, Mustrid, Pecto, Amsindia, Phac. a Miniay, Clay perf., Sol. per.), Phace par. M Miniay, Pock Lotus, Chaenaetis, Cusium, ing Bells, Cast. affinis, Cean. lenco., GPS Location: 3.

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Location	1ap 77-70	Survey Segment	
Surveyor	NK	Date 17-May-10 Survey Week N	lumber <u>4</u>
Survey Partner(s)	· · · · · · · · · · · · · · · · · · ·		<u> </u>
Total Acres:	Portion Surveyed:	Elevation: Max	Min

Time (24 hr)	% Cloud			Sky	ر ایک میں ایک میں ایک میں ایک میں ایک میں میں ایک میں میں کی میں کی میں کی میں کی میں کی میں کی میں کی میں کی مرکز میں کی میں کی میں کی میں کی میں کی میں کی میں کی میں کی میں کی میں کی میں کی میں کی میں کی میں کی میں کی م		Wind (range)	Temp (F)
Start 1022	/00	clear	patchy	overcast	drizzle	shower	0-2	76 (hir-N
1159	100	clear	patchy	overcast	drizzle	shower	4-7	83 (Hir-70
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Thin, Wispy ch	uds	clear	patchy	overcast	drizzle	shower		
Stop 1355	85	clear	patchy	Sovercast)	drizzle	shower	2-4	81 (Air-73)

Butterfly Species	Count (Total)	Hill- topping	Butterily Species	Count (Total)	Hill tôpping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		•
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)	)		Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)	1	[	Apodemia mormo (Mormon Metalmark)	WHI	· · · · · · · · · · · ·
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus(Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae		1	Anthocharis sara (Sara's Orangetip)	44111	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)	1		Pontia protodice(Checkered White)		
Hesperidae	1		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		,	Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens(White Checkered Skipper)			Satyridae (Satyrids)		L
Erynnis funeralis (Funereal Duskywing)		1	Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:	_]	
Erynnis propertius (Propertius Duskywing)		T	Marine Bhu	VI	
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus(Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)	-				<u> </u>
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					<b>_</b>
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue)	H				
Celastrina ladon(Echo Blue)	1				

Surveyor NK Segment # Map 77-70 Date: 17-Marzio

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	Comments:	-	
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	Plant Communities and Habitat Infor	mation	
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	Host Plants Proporti		1 mil ~
	Host Plants Present: Willingia An-	to coulty, ( along & new	n poli 44165
	Host Plants Present: Willingia, An-	to coulter, ( along for new	n pole 44/65
	Host Plants Present: Willingia, An-	to coulter, ( thoug for new	n poli 44/65
	Host Plants Present: Willingia, An.	to coulter, (along for new	·····
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	·	to coulter, (along for new	
	·		Phac
	Nectar Plants Present: Penstemon, Er		Phace Hinis, Yuc. whip, Crypt, Musica
	Nectar Plants Present: Penstemon, Er		Phac
	Nectar Plants Present: Penstenon, Er Pecto, Eno. a conf. Dich. cop. Poppy,	. ai., Camissonia, Car Las. cat., Lup. bic., Sam. m	Phace Hinis, Yuc. whip, Crypt, Musica
	Nectar Plants Present: Pensteman, Er Pecto, Erie, a confy, Dich.cop., Poppy, Allian, Tich-Tips, Phac. ic., Sotragalo	Canissonia, Canissonia, Ca Lat. cal. Lup. bic., Sam. m is Cla. kia, Sidalca	Phace Hac Hinig, Yuc. whip., Crypt., Musica ix., Wild Pea, Construer, Juc. schi, C Worly, Blue Curls, Answicken, Witz Scop
	Nectar Plants Present: Pensteman, Er Pecto, Eno. g. conf., Dich.cop., Poppy, Allina, Tidy-Tips, Phac.cic., Astragale Cicsium, Ephodra, Erro. crass., Min.	Canissonia, Camissonia, Ca Lat. cat. Lup. bic. J. Sam. m is Clarkia, Sidalca, aur., Phac. par, Clay, fly	Phac Mac M. affinis, Yuc. whip., Crypt., Musta ix., Wild Pea, Conatiun, Juc. schi, C Warly, Blue Curls, Aussichen, Juc. schi, C Worly, Blue Curls, Aussichen, Lots Scap 1, Erignnan, Cherenatis, Sal. colum.
	Nextar Plants Present: Penstonon, Er Pecto, Eno. aconfi, Dich.cop., Poppy, Allian, Tidy-Tips, Phac.cic., Astragala Cicsium, Ephobra, Erro. cruss., Mins. Choryantez, Ad. fasc., Mins. browy	Canissonia, Canissonia, Ca Lat. cal. Lup. bic., Sam. m is Cla. kia, Sidalca	Phace Hac Hinig, Yuc. whip., Crypt., Musica ix., Wild Pea, Construer, Juc. schi, C Worly, Blue Curls, Answicken, Witz Scop
	Nextar Plants Present: Penstonon, Er Pecto, Eno. aconfi, Dich.cop., Poppy, Allian, Tidy-Tips, Phac.cic., Astragala Cicsium, Ephobra, Erro. cruss., Mins. Choryantez, Ad. fasc., Mins. browy	Canissonia, Camissonia, Cá Lat. cat. Lup. bic., Sam. m is Clarkia, Sidalca, aus., Prac. paz, Clay, fly Balay Bhas Eiges, Pock	Phac <i>it. affinis. Two. whip., Crypt., Musta</i> <i>ix., Wild Reg, Lonatiun, Juc. schi, G</i> <i>Warly, Blue Curls, Answelca, bitz Scop</i> <i>I., Erignnan, Cherenatis, Sci. Column</i> <i>Intus, Whispering Bolls, Rebrie, Worlds, Lip</i>
	Nectar Plants Present: Pensteman, Er Pecto, Eno. g. conf., Dich.cop., Poppy, Allina, Tidy-Tips, Phac.cic., Astragale Cicsium, Ephotra, Erro. crass., Minn. Choryanthe, Ad. fasc., Mins. brevy Quino Sighting	Canissonia, Camissonia, Cá Lat. cat. Lup. bic., Sam. m is Clarkia, Sidalca, aus., Prac. paz, Clay, fly Balay Bhas Eiges, Pock	Phac Mac M. affinis, Yuc. whip., Crypt., Musta ix., Wild Pea, Conatiun, Juc. schi, C Warly, Blue Curls, Aussichen, Juc. schi, C Worly, Blue Curls, Aussichen, Lots Scap 1, Erignnan, Cherenatis, Sal. colum.
	Nextar Plants Present: Penstemon, Er Pecto, Eno. greonfy, Dich.cop., Poppy, Allian, Tidy-Tips, Phac.cic., Astragale Circium, Ephola, Erro. cruss., Mins. Choryanth, Ad. fasc., Mins. Green	Canissonia, Camissonia, Cá Lat. cat. Lup. bic., Sam. m is Clarkia, Sidalca, aus., Prac. paz, Clay, fly Balay Bhas Eiges, Pock	Phac <i>it. affinis. Two. whip., Crypt., Musta</i> <i>ix., Wild Reg, Lonatiun, Juc. schi, G</i> <i>Warly, Blue Curls, Answelca, bitz Scop</i> <i>I., Erignnan, Cherenatis, Sci. Column</i> <i>Intus, Whispering Bolls, Rebrie, Worlds, Lip</i>
	Nectar Plants Present: Pensteman, Er Pecto, Eno. g. conf., Dich.cop., Poppy, Allina, Tidy-Tips, Phac.cic., Astragale Cicsium, Ephotra, Erro. crass., Minn. Choryanthe, Ad. fasc., Mins. brevy Quino Sighting	Canissonia, Camissonia, Cá Lat. cat. Lup. bic., Sam. m is Clarkia, Sidalca, aus., Prac. paz, Clay, fly Balay Bhas Eiges, Pock	Phac <i>it. affinis. Two. whip., Crypt., Musta</i> <i>ix., Wild Reg, Lonatiun, Juc. schi, G</i> <i>Warly, Blue Curls, Answelca, bitz Scop</i> <i>I., Erignnan, Cherenatis, Sci. Column</i> <i>Intus, Whispering Bolls, Rebrie, Worlds, Lip</i>
	Nector Plants Present: Pensteman, Er Pecto, Eno. g. conf., Dich.cop. Poppy, Alline, Tidy-Tips, Phac. ac., Astragale Circsium, Epholica, Erro. crass., Mins. Chorganthe, Ad. fasc., Mins. breezy Quino Sighting Photographs Taken:	Canissonia, Canissonia, Ca Laj. cut. Lup. bic., Sam. m is Cla. kia, Sidalcia, aur., Phac. paz, Clay, Pla Balay Bhis Eiges, Pock Date: GP:	Phac <i>Hinig, Yuc. whip., Crypt., Musta</i> <i>ix., Wild Reg, Lonatium, Juc. schi, C</i> <i>Wally, Bhy Curls, Ansideas, Lists Scop</i> <i>I., Ericonson, Cheenattis, Sal. colume</i> <i>Johns, Whispering Bolls, Reony, Workly Lup</i> <i>S Location:</i>
	Nextar Plants Present: Penstemon, Er Pecto, Eno. a conf. Dich.cop. Poppy, Alling, Tidy-Tips, Phac. ic., Astragala Cirsium, Ephabra, Erro. cruss., Minn. Cho: yanth, Ad. fasc., Minn. brevy Quino Sighting Photographs Taken: 1.	C. ai., Camissonia, Ca Lat. cel. Lyp. bic., Sam. m is Clarkia, Sidalca, aus., Prac. paz, Clay, fly Baly Bhis Eyes, Pock Date: GP: 2.	Phac Pt. appinis. Yuc. whip., Crypt., Musta w., Wild Reg, Lomatrin, Juc. schi, G Wally Blue Curls, Answelca, bit Scop 1, Erignman, Chaenatti, Sal. Column Johns, Whispering Boll, Rebniz, Woxleylup S Location: 3.
	Nector Plants Present: Pensteman, Er Pecto, Eno. g. conf., Dich.cop. Poppy, Alline, Tidy-Tips, Phac. ac., Astragale Circsium, Epholica, Erro. crass., Mins. Chorganthe, Ad. fasc., Mins. breezy Quino Sighting Photographs Taken:	Canissonia, Canissonia, Ca Laj. cut. Lup. bic., Sam. m is Cla. kia, Sidalcia, aur., Phac. paz, Clay, Pla Balay Bhis Eiges, Pock Date: GP:	Phac <i>Hinig, Yuc. whip., Crypt., Musta</i> <i>ix., Wild Reg, Lonatium, Juc. schi, C</i> <i>Wally, Bhy Curls, Ansideas, Lists Scop</i> <i>I., Ericonson, Cheenattis, Sal. colume</i> <i>Johns, Whispering Bolls, Reony, Workly Lup</i> <i>S Location:</i>
	Nector Plants Present: Pensterion, Er Pecto, Eno. oconf., Dich.cop., Poppy, Alline, Tidy-Tips, Phac.cic., Astragale Cicsium, Epholica, Erro. crass., Mins. Cho: yanthe, Ad. fasc., Mins. browy Quino Sighting Photographs Taken: 1. 4.	C. <u>ai.</u> , <u>Canissonia</u> , <u>Ca</u> Los cel. Lup. bic., <u>Sam. m.</u> is Cla. kia, <u>Sidalcia</u> , <u>aus.</u> , <u>Prac. pz., Clay</u> , <u>fly</u> <u>Baby Bho Eiges</u> , <u>Pock</u> Date: <u>GP</u> : 2. 5.	Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Phace Ph
	Nextar Plants Present: Penstemon, Er Pecto, Eno. a conf. Dich.cop. Poppy, Alling, Tidy-Tips, Phac. ic., Astragala Cirsium, Ephabra, Erro. cruss., Minn. Cho: yanth, Ad. fasc., Minn. brevy Quino Sighting Photographs Taken: 1.	C. ai., Camissonia, Ca Lat. cel. Lyp. bic., Sam. m is Clarkia, Sidalca, aus., Prac. paz, Clay, fly Baly Bhis Eyes, Pock Date: GP: 2.	Phac Pt. appinis. Yuc. whip., Crypt., Musta w., Wild Reg, Lomatrin, Juc. schi, G Wally Blue Curls, Answelca, bit Scop 1, Erignman, Chaenatti, Sal. Column Johns, Whispering Boll, Rebniz, Woxleylup S Location: 3.

## * CLOUD COVER / TEMP. PROJECTED SURVEYS

Adult	Survey
Adult	Survey

Quino Checkerspot General Form	Live Mensiliau	1
Location WEATTER, COT	Survey Segment	_
Surveyor CEREEN 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		1		overcast	drizzle	shower		`
		clear	patchy	overcast	drizzle	shower		
10:50-211:30 Am	105% *	clear	patchy	overcast	drizzle	shower	3-8 MM	61-64°F
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
		clear	patchy	overcast	drizzle	shower		
Stop		clear	patchy	overcast	drizzle	shower		

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

Surveyor	Segment #_	Dat	
Comments:			
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	-Litet Information	<u></u>	
Plant Communities and Ha		<u> </u>	
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Host Plants Present:			
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Nectar Plants Present:			
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		GPS Location:	
Quino Sighting	Date:		
	Date:		
Quino Sighting Photographs Taken: 1.	Date:	3.	
Photographs Taken:		3. 6.	
Photographs Taken: 1.	2.	3.	

<b>Quino Checkerspot</b>	General	Form	
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Adult Survey

Quino Checkerspor	Generalize	/
	- Hiway 76	Survey Segment Maps 2-\$\$
Surveyor 57	eve Myers Nathan 1	Moor hatehDate 26 May 10 Survey Week Number 5
Survey Partner(s)	+ /	1
Total Acres:	Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start 1050	Ó	clear patchy overcast drizzle shower	1-4	63°
1200	D	clear patchy overcast drizzle shower	2-5	65°
1315	O.	clear patchy overcast drizzle shower	2=6	70°
1400	LID	clear patchy overcast drizzle shower	4-8	69°
1440	21D	clear patchy overcast drizzle shower	5-12 to 16	68°
		clear patchy overcast drizzle shower		
Stop		clear patchy overcast drizzle shower	and the second second second second second second second second second second second second second second second	

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total).	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta(Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)	- 1		Apodemia mormo (Mormon Metalmark)	2	
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)	5		Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)	1		Papilio rutulus(Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	4	
Danaus gilippus(Queen)		·····	Pieris rapae (Cabbage White)	-	
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)	6	
Hesperidae			Colias eurytheme (Orange Sulphur)	17	
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	2	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens(White CheckeredSkipper)		1	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	4		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			California Dogface		
Ochlodes agricola(Rural Skipper)			Dainty Sulphur		
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)			white so.	4	
Incisalia augustinus(Western Brown Elfin)			blue ap.	GI	
Callophrys perplexa(Perplexing Hairstreak)			Erynnis 3p.	2	
Strymon melinus (Gray Hairstreak)					<u> </u>
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue)	49				<u> </u>
Celastrina ladon(Echo Blue)					

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Comments:		
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Plant Communities and Habit	at Information:	
Plant Communities and Habit		
		·
Host Plants Present: Cast	-illeja exserta	
Host Plants Present: Cast		
	illeja exserta	L.P.F. ERCO PHPA CLPU CASP
	illeja exserta	LPE, ERCO, PHPA, CLPU, CASP, NIGL, ASCA, SIGA, LAVE, LUBI
	illeja exserta	LPE, ERCO, PHPA, CLPU, CASP, NIGL, ASCA, SIGA, LAVE, LUBI AVU, SIMA, MEAL, LOSC, CRCA
	illeja exserta	LPF, ERCO, PHPA, CLPU, CASP, NIGL, ASCA, SIGA, LAVE, LUBI AVU, SIMA, MEAL, LOSC, CRCA
	illeja exserta ), HIIN, Rose clover, LOAR, C A, YUWH, MIAU, GNBI, ESCA C, SALUME, Madia sg., PHCI, M	
	illeja exserta ), HIIN, Rose clover, LOAR, C A, YUWH, MIAU, GNBI, ESCA C, SALUME, Madia sg., PHCI, M	<u>L PF, ERCO, PHPA, CLPu, CASP, MIGL, ASCA, SIGA, LAVE, LUBI</u> MUU, SIMA, MÉAL, LOSC, CRCA
Nectar Plants Present: ERBI SAAP, DICA, LUHI, ADE SYBE, RASA, PLLA, VIVI Camissonia sp., MIBR	illeja exserta ), HIIN, Rose ; lover, LOAR, C A, YUWH, MIAU, GNBI, ESCA ; SALUME, Madia sg., PHCI, M	
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Nectar Plants Present: ERBL SAAP, DICA, LUHI, ADF SYBE, RASA, PLLA, VIVI Camissonia SP., MIBR Quino Sighting Photographs Taken:	-illeja exserta ), HIIN, Rose ; lover, LOAR, C A, YUWH, MIAU, GNBI, ESCA F, SALUME, Madia sp., PHCI, M Date: GPS L	ocation:

Location	
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Survey Partne	er(s
Total Acres:	_

Tir	ne (24 hr)	% Cloud	-	Sky			Wind (range)	Temp (F)
Start	0915	15	€ar →patchy	overcast	drizzle	shower	1-4 (no questo)	60 (Air - 59)
	1040	15	etear-> patchy	overcast	drizzle	shower	0-4 (gusts=13)	
	1151	20	(lear->patchy	overcast	drizzle	shower	0-7 (quots= 11)	FRCAir-66)
			clear patchy	overcast	drizzle	shower		
			clear patchy	overcast	drizzle	shower		
			clear patchy	overcast	drizzle	shower		
Stop	1350	85	patchy (lear)	overcast	drizzle	shower	Q-7 (quoto = 14)	77 (4-71

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		Í
Charidryas gabbii (Gabb's Checkerspot)		·	Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira(Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	4411	
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)	11		Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	1	
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)	-	
Vanessa cardui (Painted Lady)	l		Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae		• • • • • • • • • • • • • • • • • • •	Anthocharis sara (Sara's Orangetip) Many	HTH	11
Danaus gilippus (Queen)		,	Pieris rapae (Cabbage White)		<u> </u>
Danaus plexippus (Monarch)	· · · · · · · · · · · · · · · · · · ·		Pontia protodice(Checkered White)	1	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)		
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funeseal Duskywing)	. 0 .		Coenonympha californica(Common California Rínglet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Blue so.	1	
Ochlodes agricola (Rural Skipper)			Gurgan Copper	11	
Lycaenidae (Hairstreaks)			Great Corpor	11	
Atlides halesus (Great Purple Hairstreak)			White ip.		
Incisalia augustinus (Western Brown Elfin)			Dainty Salphur	)	
Callophrys perplexa(Perplexing Hairstreak)				,	
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue) Manu	, UKW	1.			
Celastrina ladon(Echo Blue)	1	ļ			1

Surveyor NK _____ Segment # Maps 9-10 ____ Date: 28 May 10

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Nect Delp pay Sida Chana Chana Phot	ar Plan hinilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilum binilu	ts Prese (lark Dith (Juh) (stal) (stal) ghting	ent: En rà, Cam capy sa	D. confi issonia 1. colum	<u>, Culo</u> s <u>, Penste</u> <u>, Ginaph</u> <u>Pink</u> , Ja Date:	pl., M mon, Z 1. biz, ( 1. vous. (		en phe	t, Trito, in brow.	Choriza Sam we ne. sali.,	ogopu a netel, le N. Lup	<u>4 Ся. с</u> он. sev be, P.	r P p.y. P anny

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

Time (24 hr)	% Cloud		Sky	م <u>ور جونو</u> من الور الد		Wind (range)	Temp (F)
Start j0:21	0	(clear) patch	y overcast	drizzle	shower	0-4	600
<u>joinc</u>		clear patch	y overcast	drizzle	shower		
12:23	0	clear) patch	y overcast	drizzle	shower	2-4	660
	40	clear (patch	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	drizzle	shower		-
		clear patch	y overcast	drizzle	shower		
		clear patch	y overcast	drizzle	shower		
Stop 15:39	40	clear (patch	y overcast	drizzle	shower	0-2	77°.

	Leptotes marina (Marine Blue)         Philotes sonorensis(Sonoran Blue)         Plebejus melissa (Melissa Blue)         Everes amyntula (Western TailedBlue)         Brephidium exilis(Western Pygmy-Blue)         Riodinidae (Metalmarks)         Apodemia mormo (Mormon Metalmark)         Papilionidae (Swallowtails)         Papilio eurymedon(Pale Swallowtail)         Papilio zelicaon(Anise Swallowtail)         Pieridae (Whites and Orangetips)         Anthocharis sara (Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice(Checkered White)		
	Plebejus melissa (Melissa Blue)         Everes amyntula (Western TailedBlue)         Brephidium exilis(Western Pygmy-Blue)         Riodinidae (Metalmarks)         Apodemia mormo (Mormon Metalmark)         Papilionidae (Swallowtails)         Papilio eurymedon(Pale Swallowtail)         Papilio rutulus(Western Tiger Swallowtail)         Papilio zelicaon(Anise Swallowtail)         Pieridae (Whites and Orangetips)         Anthocharis sara (Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice (Checkered White)	LITI	
	Everes amyntula (Western TailedBlue)         Brephidium exilis(Western Pygmy-Blue)         Riodinidae (Metalmarks)         Apodemia mormo (Mormon Metalmark)         Papilionidae (Swallowtails)         Papilio eurymedon(Pale Swallowtail)         Papilio rutulus(Western Tiger Swallowtail)         Papilio zelicaon(Anise Swallowtail)         Pieridae (Whites and Orangetips)         Anthocharis sara (Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice (Checkered White)	LITI	
	Brephidium exilis(Western Pygmy-Blue)         Riodinidae (Metalmarks)         Apodemia mormo (Mormon Metalmark)         Papilionidae (Swallowtails)         Papilio eurymedon(Pale Swallowtail)         Papilio rutulus(Western Tiger Swallowtail)         Papilio zelicaon(Anise Swallowtail)         Pieridae (Whites and Orangetips)         Anthocharis cethura (Desert Orangetip)         Anthocharis sara(Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice(Checkered White)	LITI	
	Riodinidae (Metalmarks)         Apodemia mormo (Mormon Metalmark)         Papilionidae (Swallowtails)         Papilio eurymedon(Pale Swallowtail)         Papilio rutulus (Western Tiger Swallowtail)         Papilio zelicaon (Anise Swallowtail)         Pieridae (Whites and Orangetips)         Anthocharis cethura (Desert Orangetip)         Anthocharis sara (Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice (Checkered White)	LITI	
	Apodemia mormo (Mormon Metalmark)         Papilionidae (Swallowtails)         Papilio eurymedon(Pale Swallowtail)         Papilio rutulus(Western Tiger Swallowtail)         Papilio zelicaon(Anise Swallowtail)         Pieridae (Whites and Orangetips)         Anthocharis cethura (Desert Orangetip)         Anthocharis sara (Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice(Checkered White)	LITI	
	Papilionidae (Swallowtails)         Papilio eurymedon(Pale Swallowtail)         Papilio rutulus(Western Tiger Swallowtail)         Papilio zelicaon(Anise Swallowtail)         Pieridae (Whites and Orangetips)         Anthocharis cethura (Desert Orangetip)         Anthocharis sara (Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice (Checkered White)	LITI	
	Papilio eurymedon(Pale Swallowtail)         Papilio rutulus(Western Tiger Swallowtail)         Papilio zelicaon(Anise Swallowtail)         Pieridae (Whites and Orangetips)         Anthocharis cethura (Desert Orangetip)         Anthocharis sara(Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice(Checkered White)	LITI	
	Papilio rutulus(Western Tiger Swallowtail)         Papilio zelicaon(Anise Swallowtail)         Pieridae (Whites and Orangetips)         Anthocharis cethura (Desert Orangetip)         Anthocharis sara (Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice(Checkered White)	LITI	<u>14</u> 47_()
	Papilio zelicaon (Anise Swallowtail)         Pieridae (Whites and Orangetips)         Anthocharis cethura (Desert Orangetip)         Anthocharis sara (Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice (Checkered White)	LITI	<u>14</u> 41_1
	Pieridae (Whites and Orangetips)         Anthocharis cethura (Desert Orangetip)         Anthocharis sara (Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice (Checkered White)		
	Anthocharis cethura (Desert Orangetip)         Anthocharis sara (Sara's Orangetip)         Pieris rapae (Cabbage White)         Pontia protodice (Checkered White)		<b>L</b> ++†_(
	Anthocharis sara (Sara's Orangetip) Pieris rapae (Cabbage White) Pontia protodice (Checkered White)		441 (
	Pieris rapae (Cabbage White)           Pontia protodice (Checkered White)		444 1
	Pontia protodice(Checkered White)		
		111	
		1 11	
	Colias eurytheme (Orange Sulphur)		ļ
	Colias harfordii (Harford's Sulphur)		
	Eurema nicippe (Sleepy Orange)		
	Satyridae (Satyrids)		L
	Coenonympha californica(Common California Ringlet)		
	OTHERS:		<u> </u>
	Hedgerow Hairstreak	<u> </u>	
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		Hedgerow Hairstreak	

Surveyor NM, NK_____ Segment # Maps 28-36 ____ Date: 25 May 10

Comments:	·	
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Plant Communities and Habitat Inform	ation:	
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	• • • • • • • • • • • • • • • • • • •	
Host Plants Present: Plantago 2.	at. Cordylanthurriaidur	Collinsia concolor Collinsia
Host Plants Present: Plantago p. Castilleja exserta Plantago o	Jata Antirhinum coulter,	hetersphylla
	· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	
fectoeryn sp.	CAAF, AMME, LUEX, AS	SCA CHSU
Nectar Plants Present: LUBE, HIEN	<u>, ESCA, ERCI, YUWH, TRL</u>	A ADIA, Ciypt. sp., PEHE,
Nectar Plants Present: LUBE, HIEN PHPA, HYGL, PHCI, ERCO, LOSC	, CLEM., Camissonia sp., TK	WI MIAN, CASP, ANAR
PLANDER, CELE, SYBE CLPM	Lonicera NEME MEIN	RASA DICA. Vinco De
Chap. Pea Eriog. Fasc. SAMEX E	ERBO, Lomatium SP. ROCA	CLDE MIFA, LIPA
Eriastrum st., HESC, MIFR, MIB Quino Sighting SIMA, CH D	R TAAR ACMI, SILA, LU	IHI, SIGA, PECE, Saniculare
Quino Sighting SIMA CH D	ate: PLLA GPS Location	: GAAN, SACO
Photographs Taken:		
A TRACOGLAPID I ANCIE		
-	0	9
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4.	5.	6.

Location Cuyamaca Peak	Date 5-25-10 Survey Week Number 5
Surveyor Gor man	Date <u>5-25-10</u> Survey Week Number <u>5</u>
Survey Partner(s) Greg Chaman	
Total Acres: Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud	Sity	Wind (range)	Temp (F)
Start 0450	ο/.	(clear) patchy overcast drizzle shower	1-3mph	60°F
1136	07	(clear) patchy overcast drizzle shower	2-5 rph	62°F
		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
Stop 1402	07.	(clear) patchy overcast drizzle shower		62°F

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

Langer borner Surveyor All-Charman + Segment # MARS 30-33 Date: 5-25-10 Comments: VELL STREP SETAON. - VISTED SOLONAL RIAGET HULTON - NO QUINO Cotolical CARI DECOMINA - I sugestimes nost abstrying - Ca arijotus - using Ciemsters abundat Plant Communities and Habitat Information: press D suchus one Host Plants Present: COIN (Autors MADS HARE BEEN LIPDATED. . Nectar Plants Present: mustard, erodium Sp., Camissonia Sp. .... Soe prior data sheet from last week **GPS Location: Quino Sighting** Date: Photographs Taken: 3. 1. 2. 6. 4. 5٠ 8. 7. 9. 11. 12. 10. Ŧ

Adult Survey

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Location VNELAS	Survey Segment MADS 37-38
Surveyor MWILCOX	Date 13MAVIO Survey Week Number 5
Survey Partner(s) C-McGAUAH	
Total Acres: Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud			Sky	ار ایک بر درجه میک بیر ا		Wind (range)	Temp (F)
Start 1040	10		patchy	overcast	drizzle	shower	0-3mph	71°F
1445	6	clear	patchy	overcast	drizzle	shower	0-3mph	80'F
V		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		

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		<u>-</u>
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta(Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		-
Nymphalis antiopa(Mourning Cloak)	° (1)		Apodemia mormo (Mormon Metalmark)	8g(	<u>15)</u>
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		L
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		ļ
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae	<u>1</u>		Anthocharis sara (Sara's Orangetip)	<b>M</b> NJ	27)
Danaus gilippus (Queen)		1	Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		1	Pontia protodice(Checkered White)	] [•] (J)	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)		1	Colias harfordii (Harford's Sulphur)	= (2)	<u> </u>
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		1
Pyrgus albescens (White Checkered Skipper)		1	Satyridae (Satyrids)		<u> </u>
Erynnis fureralis (Funercal Duskywing)	5.6		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		<u> </u>
Erynnis propertius (Propertius Duskywing)			BLUE SP.	<b>X</b> .([	<u> </u>
Ochlodes agricola (Rural Skipper)			ERYNNISSP. WHITE SD.	:: (A	.)
Lycaenidae (Hairstreaks)			WHITE SD.	05	1
Atlides halesus (Great Purple Hairstreak)			<u></u>		
Incisalia augustinus(Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)	· (l`	)			<u> </u>
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)					<u> </u>
Icarcia acmon (Acmon Blue)	<b>n</b> (8	)			
Celastrina ladon(Echo Blue)			· · · · · · · · · · · · · · · · · · ·		

Surveyor	MW+	CM_
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Segment # Maps 37-38 ____ Date: 13 May 10

Comments:						
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Plant Communities and Habitat Inform	nation:					
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Host Plants Present: CASTILEIA	ex.					
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Host Plants Present: CASTILEJA	εχ.					
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Nectar Plants Present: SAME AS	PREVIOUS VISIT					
Nectar Plants Present: SAME AS	PREVIOUS VISIT Date: GPS Location 2.	3.				

Adult Survey

Location DISCA	450	Survey Segment <u>MAP</u> 39,40,41 145.170 Survey Week Number 5
Surveyor	Date G	Survey Week Number 5
Survey Partner(s)		<b>T</b>
Total Acres:	Portion Surveyed: +L. 075	Elevation: Max Min

Time (24 hr)	% Cloud	Sky		Wind (range)	Temp (F)
Start 1000	07	clear patchy overcast	rizzle shower	2-4ma	6.6°F
12 60	052	clear) patchy overcast o	lrizzle shower	2-4	10.9
1400	0%	clear patchy overcast o	rizzle shower	24	66.
		clear patchy overcast o	rizzle shower		
		clear patchy overcast o	rizzle shower		
		clear patchy overcast o	rizzle shower	-	
Stop		clear patchy overcast o	rizzle shower		

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		[
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbit (Gabb's Checkerspot)	NH NH	$\Gamma \sim$	Everes amyntula (Western Tailed-Blue)		,
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		M
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)	1	
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	1	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)	_	
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	11	1
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)	_	
Pyrgus albescens (White Checkered-Skipper)		•	Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)			Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)				· ·	
Lycaeuidae (Hairstreaks)					
Allides halesus (Great Purple Hairstreak)				·	
Incisalia augustinus (Western Brown Elfin)	/	1		1	
Callophrys perplexa (Perplexing Hairstreak)				1	
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)	MAN .	1 164			
Celastrina ladon (Echo Blue)	XXIII	1			[

Surveyor

Robpletcher

Maps 39, 40, 41

Segment # TL _____ Date: 5/25/10

Comments:		• • • • • • • • • • • • • • • • • • •
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Plant Communities and Habitat Inform	nation: Mix11 [Mimise M	ADANG + Circ reloven
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1 21 27 11 -		
Host Plants Present: (10116,7	LAERE, CASENE	
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	A	<u> </u>
Nectar Plants Present: Fround Sp	Wystan tha (p., PRG, obut	larys Sp. LAmissonth Sp.
HIRING HESWHI, LUPBIC CASE	YE, EPILON, UROUN, UN	OSTA, TRIPAR, SAMMEX
DILLAP, LOTSLO, CLAPUR, MIM	PALE, ADEPAS, PHACIC, AU	HAE PIIMUE DENZIG
PRIFAS, LUPHIR, PHA PAR, LAL		USPE, MIMPRE PENCEN
CAMCAL, LOT STE, PLAERE, SALA		
🔲 Quino Sighting 🔔 👘 🛛	Date: GPS Location	n: SALLOL SIDMAL
		GILCAP SOLVAN
Photographs Taken: —		GILANG, Tribling
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Adult Survey

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Location JAPATUL VALLEY	Survey Segment MANS 42, 43, 44
Surveyor ROB FIRTCHER	Date 5/2(e/10 Survey Week Number 5
Survey Partner(s) MAYA MAZON	
Total Acres: Portion Surveyed:	5 Elevation: Max Min

Time (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)
Start 1000	Ð	clear	patchy	overcast	drizzle	shower	1-3	106
1225	Ð	clear	^{&gt;} patchy	overcast	drizzle	shower	2-4	90
1311	Ð	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		

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Totsl)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedou Checkerspot)		a.	Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	3_	
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		1
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)	Э	Q
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae	*		Anthocharis sara (Sara's Orangetip)	8	Ø
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)	11	5
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	1	8
Hylephila phyleus (Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	4	2	Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)	•				T
Incisalia augustinus (Western Brown Elfin)	2	2	<u>.</u>		
Callophrys perplexa (Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)	19	9			
Celastrina ladon (Echo Blue)	2	1			1

Maps 42-44 Surveyor ROB FLETCHER_____ Segment #_____ 12 625 ____ Date: 5/26/10 NECTOR PLANTS - UPOLYN, CAMHVE HEILDA LATES, LOTSCO, ADDEFAS Comments: ACHNIL, HELSLO SM.COL, MARMAC, GILIA SPP., AMS SPP., PHAPAR MIMAUR CAMEJS, ERGFOL, ENCRYPTAL SPP., PHADIS, CHLPAR, CHAGLA CHOSTA ERIDEN, MURVILL, CASH YUCUM, CALMAC, ASTRAGALUS SP CALMAC, TRACIL, ASC CAL, CASFOL neberte Plant Communities and Habitat Information: OAK WOODLAND WITHIN URBAN LANDSLAPE, AD AND DISTURBED GRADGLEND Host Plants Present: CHETILLETA EXSERTA, CORDALANTHUS RIGIDUS, Nectar Plants Present: BILLE DICICS, DELPHILING HESPING, ERODIUM CICUTARIUM BRAGGILA NIGRA GASCORDUG SPLENDENS, ERODIN BOTEYS, CRYPTANTHA CLARKIN PELICATA, CLARKIA PURPURPA, GNAPHALIUM CALIFORNICHM PRACELIA CICUTATION CALSPL, HYPELA, ELICON, TRIPAR PARCAL, CIROKI, LOTSI PRINGE, SILGAL, ANAARY DAUPAS, SOLXAN MINBRE, CORFRU, NAVITAN, INDIAN PANSIBROS Quino Sighting Date: GPS Location: **Photographs Taken:** 1. 2. 3. 4. 6. 5 7. 8. 9. 11. 10. 12,

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Adult	Survey
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Location MA	PS 49-50		Survey Segn	nent	
Surveyor	MCGAUGH	Date	5-6-10	Survey Weel	cNumber 🔏
Survey Partner(s)	)				
Total Acres:	Portion Surveyed:		Elevat	ion: Max	Min

i ya Tim	e (24 hr)	%Cloud		Sky		k (j. s. dani 6) Na serie taji ng	Wind (range)	Temp (F) 7
Start	0925	0	clear patchy	overcast	drizzle	shower		
anne a	820 50°F		clear patchy	overcast	drizzle	shower		
			clear patchy	overcast	drizzle	shower		
			clear patchy	overcast	drizzle	shower		
			clear patchy	overcast	drizzle	shower		
			clear patchy	overcast	drizzle	shower		
Stop	1(30	ð	clear patchy	overcast	drizzle	shower		

Butterfly Species	Count] (Total)	Hin-29 Stopping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino (Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona (Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western Tailed-Blue)	i	
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis (Western Pygmy-Blue)	:	
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)		
Basilarchia lorquini (Lorquin's Admiral)			Papilionidae (Swallowtails)		-
Junonia coenia (Common Buckeye)			Papilio eurymedon (Pale Swallowtail)		
Vanessa annabella (West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis (American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	7	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	2	
Hylephila phyleus (Fiery Skipper)			Eureina nicippe (Sleepy Orange)		
Pyrgus albescens (White Checkered-Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	1		Coenonympha californica (Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola (Rural Skipper)			blue m	5	
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)			blue sp Sulphus sp	6	
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa (Perplexing Hairstreak)			· · · · · · · · · · · · · · · · · · ·		
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus (Southern Blue)					
Icarcia acmon (Acmon Blue)		· · · ·			
Celastrina ladon (Echo Blue)					

Surveyor _	MICGAUGH	Segment #	ups 49+50	Date:	5-6-10
Comments:					
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Plant Commu	inities and Habitat Inform	nation:			
	CHAPADRAL	· · · · · · ·			
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Host Plants P	resent: CASTILLESA				
	ASTICA		· · · · · · · · · · · · · · · · · · ·		
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Nectar Plants	Present: ABUNDANT				
ricetal Flame	ADDIVAU			<u>.</u>	
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<b>Quino Sigh</b>	iting D	ate:	GPS Location		
Photographs T	alzan.	<u>.</u> .			
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#### Adult Survey

Location 7/200 (19 ()-52	Survey Segment
Surveyor <u>NK</u>	Date 19-11/2 Survey Week Number 24 #5 114 - Stored
Survey Partner(s)	
Total Acres: Portion Surveyed:	Elevation: Max Min

Time (24 hr)	% Cloud	Sits	Wind (range)	Temp (F)
Start	481	clear patchy overcast drizzle shower	3 - 4 <u>-</u>	
1.375	30	clear patchy overcast drizzle shower	4-6	-73
		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
		clear patchy overcast drizzle shower		
	··	clear patchy overcast drizzle shower		
Stop 2430	: 30	clear patchy overcast drizzle shower	3-5	-10 (Bir-60)

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

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Surveyor <u>AK, El</u> Segment # <u>And Co. 60, W-52</u> Date: <u>Contractor</u>

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Plant Communities and Habitat Info	rmation:		
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Host Plants Present:	Company Myslog	t	· · · · · · · · · · · · · · · · · · ·
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	1 (342 <u>/ 1 (</u>	Charles 1	C. P. Mar Constant
Lugipic for the shart and	, Production Lands	Tidy Tipe	Generale. Page
- All Marine Marine Marine	· · · · · · · · · · · · · · · · · · ·		
Quino Sighting	Date:	GPS Location	n:
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Photographs Taken:		<u> </u>	
1.	2.		3.
4.	5.		6.
	8.		
7.			9.
10.	11.		12.

		M 751	5.1.53	
Quino Checkerspot General Fo	rm	Maps 1972	$0, W^{-5}$	Adult Survey
Location 100 Augun	W	51 Maps 7975 Survey Segment_ 5_10/10_ Sur	TL625	+
Surveyor Unnalla	Date_	$\frac{10}{10}$ Sur	vey WeekNumber _(	0
Survey Partner(s) /				
Total Acres: Portion S	Surveyed: 4012 571453-	57144 Elevation: N 50BAIret land	Max Min	
	AND DIST. Un	e 64BATret 1000	11 Camp	<b>1</b>
Time (24 hr) % Clou	id Sky		Wind (range)	Temp (F)
Start 115 407	clear patchy overcas	t drizzle shower	4°8mp	64.5%
1215 507	clear patchy overcas	t drizzle shower	6-9	1210
1315 302	clear patchy overcas	t drizzle shower	4-8	74.90
1415 302	clear patchy overcas	t drizzle shower	5-10	12.7
1132 262	clear patchy overcas	t drizzle shower	6.8	68.0F

drizzle

shower

clear patchy drizzle shower overcast Stop Habitat onsite (circle as applicable); hillton, ridges, rock outcrops, open soils, soil crusts, clay soils old roads. Plantago, Castilleja, Cordylanthyb, Antirrhinum, nectar sources.

overcast

.

clear

patchy

Butterily Species	Count (Total)	Hill- topping	ButterNy Species	Count (Total)	Hill- fopping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)			Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopu (Mourning Cloak)		_	Apodemia mormo (Mormon Metalmark)	11	2
Basilarchia lorquini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	_	
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon (Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)	Δ	
Danaidae		<b>_</b>	Anthocharis sara (Sara's Orangetip)	14'	И
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)		
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)			Colias harfordii (Harford's Sulphur)	13	5
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)		
Pyrgus albescens(White CheckeredSkipper)	2	-	Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)	2	2	Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		<b></b>
Erynnis propertius (Propertius Duskywing)					
Ochlodes agricola(Rural Skipper)					
Lycaenidae (Hairstreaks)					
Atlides halesus(Great Purple Hairstreak)					
Incisalia augustinus(Western Brown Elfin)			· · · · · · · · · · · · · · · · · · ·		
Callophrys perplexa(Perplexing Hairstreak)					
Strymon melinus (Gray Hairstreak)					<u> </u>
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue)	25+	b			
Celastrina ladon(Echo Blue)		1	T · · · · · · · · · · · · · · · · · · ·	ļ	

Maps 4550, W-52 Surveyor 106 Methur Segment # TL 675 Date: 5/10/10

Comments:		
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Plant Communities and Habitat Inform	iation:	
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	<u> </u>	
Host Plants Present: CASER WWW	5. MARKE	
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Nectar Plants Present:	UN MARCE, Erallin-sc.	L'MAANTLA SP. PLATIOLAHMAN SH
ChMisson, 6 (p. HIRINC, DICLAP,	(LAF PUR, ETCLOW, LUP BI	LETUCZA LOT SCO SOMAL
GILANG, CASERE, TRIWIL, LOTS	STR. HYPGLA, MIMBLE	CREAN, SYXAN, GALSAL
SHUDL VANLAL ALS WHILL YE	NSVE VCRUINA CALMARK	TAP HIL VAL PILC
PHABOA, GNACAG TUCAN, A	I HAR, ROUMAS, AMOMIN,	MACHAR CHARTER CASCAL
Quino Sighting D	ate: GPS Location	CAPPEN PENCEN PILLEL
		WICH CHAT AICT, WICHN
Photographs Taken:	······	HNT NUI
1.	2.	3.
4.	5.	6.
7.	8.	9.
10.	11.	12.

Ċ ALE CONCERCE

Location <u>Mup 51, 41</u> Surveyor <u>NK</u> Survey Partner(s)	Survey Segment 2 Date 06-May-10 Survey Week Number 5 of #3	Мар 4/
Total Acres: Portion Surveyed:	Elevation: Max Min	

Tì	ne (24 hr)	% Cloud			Sky	a ta a ta a ta a ta a ta a ta a ta a t		Wind (range)	Temp (F)
Start	0840	$\bigcirc$	clear	patchy	overcast	drizzle	shower	2-1	60 (Air -60)
	0951	0	clear	patchy	overcast	drizzle	shower	3-5	78 (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	ctear	- patchy	overcast	drizzle	shower	3-6	76 (67-71)

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

Butterfly Species	Count (Total)	Hill: topping	Butterily Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)		
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	JHC		Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)	1		Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)		Į.	Apodemia mormo (Mormon Metalmark)	业业	} 
Basilarchia lorquini(Lorquin's Admiral)		]	Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)	Ĩ		Papilio eurymedon(Pale Swallowtail)	1	· .
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		L
Vanessa atalanta(Red Admiral)		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)	)	ý	Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)	_ [		Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara(Sara's Orangetip)	WEH	Ľ
Danaus gilippus (Queen)		1000 - C	Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)		4	Pontia protodice(Checkered White)		
Hesperidae			. Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White Skipper)		1	Colias harfordii (Harford's Sulphur)	IHT	ļ
Hylephila phyleus(Fiery Skipper)		1	Eurema nicippe (Sleepy Orange)	•	
Pyrgus albescens (White Checkered Skipper)		- 10- 10- 10- 10- 10- 10- 10- 10- 10- 10	Satyridae (Satyrids)		
Erynnis fureralis (Funereal Duskywing)		for much the sum of the first	Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)		h au actual	Blue 10,	1)	
Ochlodes agricola (Rural Skipper)		10 T West	Blue sp. CA sister	<u> </u>	<u> </u>
Lycaenidae (Hairstreaks)					
Atlides halesus (Great Purple Hairstreak)					
Incisalia augustinus (Western Brown Elfin)					
Callophrys perplexa(Perplexing Hairstreak)				_	<u> </u>
Strymon melinus (Gray Hairstreak)		<u> </u>			
Glaucopsyche lygdamus(Southern Blue)					<u> </u>
Icarcia acmon (Acmon Blue)	HALI				<u> </u>
Celastrina ladon(Echo Blue)					

Adult Survey

Surveyor NK	Segme	nt # Map 51, 41	Date: 06-May 10
Comments:			
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Plant Communities and	Habitat Information:		-
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Host Plants Present: Ca	est ex (going to seed); a	alignet all P. M. How	" to seed, sm. To have green 3
Cordinia full + far beta	welli; but coult Ismall	pateth	
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	ت 		· · · · · · · · · · · · · · · · · · ·
	Eri, crass, Clauserty Side	alicea, lup bie, Mim. 6	new, Galium, Dich. cap. Yu.
Neetar Plants Present:			
Neetar Plants Present: ( Erid . conf., Mustand Sc	1. gal, Camissia, S.L. pa		enstanon, Son colum. Er. ce
	1. gal, Caminania, S.I. pa ing hiping, Cal. macio, 19	E p. On., Changarthe, Lip	enstanon, Sal. colum. Er. a. mine. Helianthemum, Grafa bie
Erio-conf., Mustand Sc. Lot. scop., Wild Pea, Stinger Clar. deling Helmas thus, Com	1. gal, Caminaria, Sol. pa ing hipine, Cal. macro, 190 artines, Wally Blue Cents, 9		. then it the
Evil - conf., Mustand S. Lot. scop., Wild Pea, Stinger Clar. duling Helman theses, Com Canterne, Amsinking, Cillei	1. gal, Caminania, S.I. pa ing hiping, Cal. macro, Pha arinan, Warly Blue Curlo, Y. Plagis, Pectocanja,	uc. schi. Him, Tela	tury Heliartherum, Grafa bil nt; Al. fasc., Whereing B
Erio-conf., Mustand Sc. Lot. scop., Wild Pea, Stinger Clar. deling Helmas thus, Com	1. gal, Caminaria, Sol. pa ing hipine, Cal. macro, 190 artines, Wally Blue Cents, 9	E p. On., Changarthe, Lip	tury Heliartherum, Grafa bil nt; Al. fasc., Whereing B
Erio-conf., Murtand Sc Lot. scop., Wild Pea, Stinger Clar. delin, Helmorthus, Con- Lantens, Amsinkin, Crille Quino Sighting	1. gal, Caminania, S.I. pa ing hiping, Cal. macro, Pha arinan, Warly Blue Curlo, Y. Plagis, Pectocanja,	uc. schi. Him, Tela	tury Heliartherum, Grafa bil nt; Al. fasc., Whereing B
Exil - conf., Muster 50 Lot. 500p., Wild Per, Stinger Clar. duin, Helms thus, tone Canterns, Amsinkin, Cullui Quino Sighting Photographs Taken:	1. gal, Camping, Sol. pa ing hipine, Cal. macro, 1919 artinen, Warly Blue Cents, 91 Plagis, Pectocanya, Date:	uc. schi. Him, Tela	. two y Heliantherway, Gonato bie not; Al. Lasc., Wheepering B 1:
Erio - conf., Mustand Sc Lot. scop., Wild Per, Stinger Clar. delin, Helms thus, tone Lantens, Amsinking, Cullé Quino Sighting Photographs Taken: 1.	1. g.1, Camping, S.1. pa ing hiping, Cal. macro, 194 artines, Warly Blue Cents, 91 plagis, Pectocauga, Date: 2.	uc. schi. Him, Tela	: mucy Helianthemum, Genater bie not; Al. Lasc., Wheepering B 1: 3.
Exil - conf., Muster 50 Lot. 500p., Wild Per, Stinger Clar. duin, Helms thus, tone Canterns, Amsinkin, Cullui Quino Sighting Photographs Taken:	1. gal, Camping, Sol. pa ing hipine, Cal. macro, 1919 artinen, Warly Blue Cents, 91 Plagis, Pectocanya, Date:	uc. schi. Him, Tela	. two y Heliantherway, Gonato bie not; Al. Lasc., Wheepering B 1:

Location BUGNOT WILL. Surveyor (Lob Fliffung Survey Partner(s)

Date 5 Date Survey Segment TL Map 54 Date 5 Date Survey Week Number #5 Elevation: Max _____ Min ____

Total Acres: _____ Portion St

Surveyed: 7	10551	1466	-57145
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Time (24 hr)	% Cloud	Sky	Wind (range)	Temp (F)
Start 0830	67.	clear patchy overcast drizzle shower	0-2mch	65.70F
/000	52H48e	cleap patchy overcast drizzle shower	2. Und	-14,30F
1100	52 Wale	clear) patchy overcast drizzle shower	2.4mph	12.400
1245	52 haze	Sear) patchy overcast drizzle shower	3-6mph	76.90
1335	526470	clear patchy overcast drizzle shower	3-lenn	77.2°C
		clear patchy overcast drizzle shower		
Stop		clear patchy overcast drizzle shower		

Habitat onsite (circle as applicable): killtopy ridges, rock outcrops, open soils, soil crusts, day soils, ski roads, Blantago Castilleia, Cordylanthus, Antirrhinum, neetar sources.>

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

Mip 54 RobRetcher J1625 _Date: 5/6/10 Segment # Survevor Comments: Fill Planhing 1 Before Fire in 2007 Whis UERY Dense 114 -olower pres thes on ot near hilltops w 10St + ants Drasart. Parte Ven lest roll i Plant Communities and Habitat Information: Die New Vering Might Host Plants Present: CASELE, CORALE, PAPE, COLCON Nectar Plants Present: 6 10 Min NIDEANTHY GO 4 SD 1 C, GNA*O* DICAP OT ARG, TRIWIL ERICON MIMBRE HAPAR PHACZEA LOTSTZ  $\mathcal{SU}$ HERLOUI HAE PLON. EXE, SIDMAL. RMAC, ERICEA, DAMCH HUDVA ANCHA HEL SOD GILANG, CH HELGRA ALS. SIS BEL, ESHCAL LAPPRIC Quino Sighting Date: GPS Location: Photographs Taken: V)D 1. 2, 3. 4. 5. 6. 7. 8. 9. 10. 11. 12,

40531-44178-79

Location <u>Maps 70-77</u> Surveyor <u>UK</u> Date Survey Partner(s)	Survey Segment <u>24 · May - 10</u> Survey Week Number <u>5</u>
Total Acres: Portion Surveyed:	Elevation: Max Min

Tin	ie (24 hr)	% Cloud			Sky			Wind (range)	Temp (F)	
Start	1030	ľ	cfear	patchy	overcast	drizzle	shower	0-2	69 (Air-69)	lgusts =
	1158	D	clear	patchy	overcast	drizzle	shower	2-6 Gusto=8	78 (Air-69)	· · ·
	1310	0	ctear	patchy	overcast	drizzle	shower	6-8 (gusts=13)		
			clear	patchy	overcast	drizzle	shower			
			clear	patchy	overcast	drizzle	shower			
			clear	patchy	overcast	drizzle	shower			
Stop	1602	0	clear	patchy	overcast	drizzle	shower	2-10(quoto = 14)	78 (A-70)	

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

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

mostly

Adult Survey

Surveyor	NK
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Segment # ______ Date: 24-May -16

- Map 75: cartle moved through area as evi: of fresh tracks, scate wind . Plant Communities and Habitat Information: Host Plants Present: Collinsia - beg. to yo to seed Neetar Plants Present: Er. cie, Mustand, Caminsonia, Un. cal, Up bic, Cupt, Gilia, Ens. conf. Plaugine Woolly Upine, Astragalas, Yuc. whip, Chopizandie, Yuc. Soch Sam rean Whispening Bells, Esch. al., Phlor, Forton, Cirsium, Ephedra, Chaenactur, Sal. alum, clay perfy Kniegonum, Phar. par, Ad. Parce, min. brev. Delphinium Poppy, Keckiella, Penstemon, Cale, splen, & holly Blue Curls Clarkin, Sol. par, pich up, Pick Whig Scutellaria Comatium, Allium, Tidy - Tips, Sidalca **GPS** Location: 🗋 Quino Sighting Date: Photographs Taken: 2. 3. 1. 6. 5٠ 4. 8. 9. 7. 12. 11. 10.

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

Tir	ne (24 hr)	% Cloud			Sky			Wind (range)	Temp ( <i>F</i> )
Start	0800	0	(clear	patchy	overcast	drizzle	shower	4-9 (austo = 11)	73 (Air -71)
	1005	0	clear	patchy	overcast	drizzle	shower	5-8 (quisto = 12)	76 (Air-76)
	1210	0	clear	patchy	overcast	drizzle	shower	1-2 (no quite)	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 (mgusts)	30 (Air - 84)

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

Butterfly Species	Count (Total)	Hill- topping	Butterfly Species	Count (Total)	Hill- topping
Nymphalidae (Brush Footed Butterflies)			Leptotes marina (Marine Blue)	1	
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis (Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		
Charidryas gabbii (Gabb's Checkerspot)	1		Everes amyntula (Western TailedBlue)		
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa(Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	my	
Basilarchia lorguini(Lorquin's Admiral)			Papilionidae (Swallowtails)		
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)	1	
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta (Red Admiral)			Papilio zelicaon(Anise Swallowtail)		
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)	111-111	
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice(Checkered White)	u	
Hesperidae	1		Colias eurytheme (Orange Sulphur)		
Heliopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	HHE I	
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)	1	
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		
Erynnis funeralis (Funereal Duskywing)	itV		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)		<b>-</b>	OTHERS:		
Erynnis propertius (Propertius Duskywing)			Copper sp.	1	
Ochlodes agricola (Rural Skipper)			O Sahare-spotzed	1/1	
Lycaenidae (Hairstreaks)	_	,	While so,	1.	
Atlides halesus (Great Purple Hairstreak)			Blue AD.	L.	
Incisalia augustinus(Western Brown Elfin)	-		Gurgon Comen	UF	
Callophrys perplexa(Perplexing Hairstreak)		†		1.	
Strymon melinus (Gray Hairstreak)					
Glaucopsyche lygdamus(Southern Blue)					
Icarcia acmon (Acmon Blue) Many	14H H	11			
Celastrina ladon (Echo Blue)	))	1			

	Segment #		
Comments:			
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Plant Communities and Hab	pitat Information:		
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Host Plants Present: Colling	in flowering & going to seed		
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Host Plants Present: Collins	is flowering & going to seed		
Host Plants Present: Colling	in Howening & going to seed		
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Nectar Plants Present: Lot	Scop., Penstmon, Decto, M.	ustard, EV. cić., Crypt, Canusor 100 ly Jushy, Cas cal, Sel. aslung, Pha	
ing Nectar Plants Present: Lot conf., Gilla, Phac. par., Che	Scop., Penstmon, Decto, M.	Bolly Luphe, Las cal, Sel. alung, Pha Engonum Datus, Lup. bic., Amoin	<u>c.ai. 1</u>
ing Nectar Plants Present: Lot comp. Gilla, Phar. par., Che	Scop: Penstenon, Decto, M. n. zanthe, Woolly Bhy Cerrla, h San. men. Min. buc, Astragelan,	loolly lupho, las caly Sel. column, Pha	<u>c.ai. 1</u>
ing Nectar Plants Present: Lot conf., Gilla, Phar. par, Che Pelphinium, Sol. par, Vuc. Schirg.	Scop: Penstenon, Decto, M. n. zanthe, Wolly Blue Cerrlo, M. San. min. buer, 4 stragelan,	Lobly Luphe, Las. cal, Sel. alung, Pha Engonum, Datus, Lup. bic., Amoin	<u>c.ai. 1</u>
ing Nectar Plants Present: Lot conf., Gillia, Phac. par., Che Pelphinium, Sol. par., Inc. schier Pock lotus, Chaeractia, Esch Quino Sighting	(scop: Penstenon, Decto, M. nizanthe, Wolly Blue Cerrla, M. Sammer, Mim. beer, Astragelan, .cal, Poppy, Wheneering Bells P	Holly Luphe, Las. Cal, Scl. alung, Pha Enigonum, Datus, Lup. bic., Amorin hac. brac., Lonicera, Cast. affinis, Dich.	<u>c.ai. 1</u>
ing Nectar Plants Present: Lot eonf., Gillia, Phar. par., Che Pelphinium, Soli par, Inc. schie; Pock lotus, Chaenactici, Esch	(scop: Penstenon, Decto, M. nizanthe, Wolly Blue Cerrla, M. Sammer, Mim. beer, Astragelan, .cal, Poppy, Wheneering Bells P	Belly Juphe, Las. Cal, Scl. alung, Pha Eningonum, Datus, Lup. bic., Amorin hac. brac., Lonicua, Cast. affinis, Dich. GPS Location: 3.	<u>c.ai. 1</u>
hy Nectar Plants Present: Lot conf., Gillia, Phac. par., Che Pelphinium, Soli par., Inc. schier Pock lotus, Chaenactiá, Esch Quino Sighting Photographs Taken:	(scop: Penstmon, Pecto, M. sizanthe, Woolly Bhy Clarks, M. Sammer, Mim. buer, 4-stragelas, .col, Poppy, Whiseering Bella, P Date:	Bolly Liphe, Las cal, Sel. alway, Pha Enigeonum Datus, Lup. bic., America hac. brac., Lonicera, Cast. appris, Dich. GPS Location: 3. 6.	<u>c.ai. 1</u>
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Location	Maps	71-74
Surveyor	M Hea	14
Survey Pa	rtner(s)	
Total Acre	·8.	Portion Sur

5 71-74	CAUF	Survey Segment	
eath		Date <u>5/30/2010</u> Survey Week Number	5

Surveyed: Total Acres: _____

Elevation: Max _____ Min ____

Tin	ne (24 hr)	% Cloud	4		Sky		· · · · · · · · · · · · · · · · · · ·	Wind (range)	Temp (F)
Start	0800	0	efea	patchy	overcast	drizzle	shower	4-9 (quoto = 11)	73 (Au-71)
}	1005	0	etean	patchy	overcast	drizzle	shower	5-8/quoto=12)	
	1210	0	etear	patchy	overcast	drizzle	shower	1-2 (no questo)	88 (Air - 87)
			clear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
			clear	patchy	overcast	drizzle	shower		
Stop	1345	0	rlear	patchy	overcast	drizzle	shower	3-5 (noquets)	86 (4nr - 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)			Leptotes marina (Marine Blue)	1	
Euphydras editha quino(Quino Checkerspot)			Philotes sonorensis(Sonoran Blue)		
Euphydras chalcedona(Chalcedon Checkerspot)			Plebejus melissa (Melissa Blue)		ļ
Charidryas gabbii (Gabb's Checkerspot)		·	Everes amyntula (Western TailedBlue)	-	
Phycoides mylitta (Mylitta Crescent)			Brephidium exilis(Western Pygmy-Blue)		L
Thessalia leanira (Leanira Checkerspot)			Riodinidae (Metalmarks)		
Nymphalis antiopa (Mourning Cloak)			Apodemia mormo (Mormon Metalmark)	16	
Basilarchia lorguini(Lorguin's Admiral)			Papilionidae (Swallowtails)		ļ
Junonia coenia(Common Buckeye)			Papilio eurymedon(Pale Swallowtail)		
Vanessa annabella(West Coast Lady)			Papilio rutulus (Western Tiger Swallowtail)		
Vanessa atalanta(Red Admiral)			Papilio zelicaon(Anise Swallowtail)		l
Vanessa cardui (Painted Lady)			Pieridae (Whites and Orangetips)		L
Vanessa virginiensis(American Lady)			Anthocharis cethura (Desert Orangetip)		
Danaidae			Anthocharis sara (Sara's Orangetip)		
Danaus gilippus (Queen)			Pieris rapae (Cabbage White)		
Danaus plexippus (Monarch)			Pontia protodice (Checkered White)	ĺ	
Hesperidae			Colias eurytheme (Orange Sulphur)		
Heltopetes ericetorum (Northern White-Skipper)			Colias harfordii (Harford's Sulphur)	8	<u> </u>
Hylephila phyleus(Fiery Skipper)			Eurema nicippe (Sleepy Orange)	<u> </u>	<u> </u>
Pyrgus albescens (White Checkered Skipper)			Satyridae (Satyrids)		ļ
Erynnis funeralis (Funereal Duskywing)	T.		Coenonympha californica(Common California Ringlet)		
Erynnis tristis (Mournful Duskywing)			OTHERS:		
Erynnis propertius (Propertius Duskywing)			Calil Sister		
Ochlodes agricola(Rural Skipper)			Cipter 39	17	<u> </u>
Lycaenidae (Hairstreaks)			Culturi la poer		<u> </u>
Atlides halesus (Great Purple Hairstreak)			Saucho spitter	4	<u></u>
Incisalia augustinus(Western Brown Elfin)			White 5A	5	
Callophrys perplexa(Perplexing Hairstreak)			Buc 30 pts	55	<u>t</u>
Strymon melinus (Gray Hairstreak)		<u> </u>			
Glaucopsyche lygdamus(Southern Blue)					+
Icarcia acmon (Acmon Blue)	16				1
Celastrina ladon(Echo Blue)					

Surveyor M. Hec. M.				
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Nectar Plants Present: Exc Work, phy civel, Gilliam i Gillia, Chaptered poor Chira, Holly Pachado poor Chira, Holly Pachado poor Chira, Holly Pachado p Chira, Chira Phata p Chira, Chira Phata p Chira, Chira Phata p Chira, Chira Phata p Chira, Chira Phata p Chira, Chira Phata p Chira, Chira Phata p Chira Phata	Jananis Peorn Usea prombe Novels Coali 1, Lotivs Kaliflerry Re 1, Ikvetch, White process Date: G	Fiddlinech Lipines, Pop John String, Junily Broth aron, Plury s PS Location:	Phacelia, Peredo	frend s

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# **APPENDIX G – QCB BIOLOGISTS' SIGNATURE PAGES**

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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

Dav	id K					
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Prepared for:

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Melissa NAME (PLEASE PRINT) 10 DATE SIGNATURE 9210 PARK CT, STE 200, SAN DIEGO, CH 92123 SKY ADDRESS

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Tathan J. Moothater SIGNATURE

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## September 2010

John F. Green			
NAME (PLEASE PRINT)	•		
John FM	22 Sep	2010	
SIGNATURE	DATE '		
3120 Chicago Ave., Ste 110, ADDRESS	Riverside	, CA	<u>92</u> 507
(AMEC)			

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#### September 2010

MICHAEL D. NILCOX	
NAME (PLEASE PRINT)	
SIGNATURE TATUL	23 JEPT 10
AMEC, 3120 CHICAGO AVE., 5 ADDRESS'	SUITE 110, RIVERSIDE 92.507

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#### September 2010

<u>Stephen</u> J. Myers NAME (PLEASE PRINT)	
NAME (PLEASE PRINT)	
State m	
SIGNATURE	DATE
3120 Chicago Ave., Ste 11	0, Riverside CA 92507
ADDRESS V	

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23,2010

3120 Chirage Ave, Ste 110, Riverside, CA 92507 ADDRESS

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September 2010

Nicole Kimball	
NAME (PLEASE PRINT)	
Jos Hold	06-0ct-10
SIGNATURE	DATE

9210 SKy Park	Court. Suite	200. Jan	Diego, CA	92123	
ADDRESS	,	/	<i>.</i> ,		

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September 2010

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e = 76	BUENA	MESA	enver	CAMARILL			93013

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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.

NAME (PLEASE PRINT)	0
andrew R. Pign	de la
andrew R. Lign	
	0/04/40
	9/24/10
SIGNATURE	DATE

ADDRESS

**Prepared for:** 

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Laurie Gorman NAME (PLEASE PRINT)

September 20, 2010

SIGNATURE

DATE

165 Paseo de las Delicias, Redondo Beach, CA 90277

ADDRESS

Prepared for:

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Prepared by:

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

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Adam H. Behle NAME (PLEASE PRINT)

m H Bell

SIGNATURE

September 27, 2010 DATE

5434 Ruffin Road, San Diego, CA 92123 ADDRESS

Prepared for:

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**Prepared by:** 

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

## September 2010

September 27, 2010
DATE

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

Diana M. Jensen	
NAME (PLEASE PRINT)	
Diana M. Jensen	September 27, 2010
SIGNATURE	DATE
5434 Ruffin Road, San Diego, CA 92123	
ADDRESS	

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.

	Kyle L. Ince
-	NAME (PLEASE PRINT)

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September 27, 2010 DATE

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ADDRESS	

Prepared for:

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Melissa A. Booker NAME (PLEASE PRINT)

Melissa a Booker

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Stephen R. Rink NAME (PLEASE PRINT)

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## September 2010

Frank R. Dittmer	
NAME (PLEASE PRINT)	
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Jos MR. DA	- Allan -
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1	9/24/10
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Sarah M. Farmer	
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