

# Pheromone Search of 942 Monterey County Lepidoptera Species

Potentially Affected Non-Target Species / California LBAM Eradication Plan

10-06-07

## Search summary:

I recently researched the pheromone of 942 Monterey County moth Species. **863 of the Species** that is (92%) of the moths, the **pheromone compounds are unknown**. The pheromone of 79 Species has been identified. 65 of the 79 identified Species do not share the pheromone compounds found in OLR-F & LBAM-F. 14 of the identified Species share some of the pheromone compounds found in OLR-F & LBAM-F. In 3 of the 14 species, their primary pheromone compound is the identical primary pheromone compound found in OLR-F & LBAM-F.

The Pheromone of only 8% or 79 of the Monterey County (MC) moth population could be identified. Nearly 18% or 14 of the identified MC moths share pheromone found in Checkmate.

Nearly 22% or 3 of the 14 identified MC moths share primary pheromone found in Checkmate.

## To estimate the number of potentially adversely affected moths the following formula used:

Of the 942 moths 8%/79 moths pheromone identified (multiplier 12)

Of the 79 moths 18%/14 moths pheromone found in Checkmate (multiplier 14)

Of the 14 moths 22%/3 moths share primary pheromone found in Checkmate.(multiplier 22%)

$12 \times 14 = 168$  moth species potentially affected by the Checkmate spray

$168 \times 22\% = 37$  moth species mating disruption potentially could occur. (non-target species adversely affected)

Wide spread aerial spraying may cause irreparable harm to non-target species including humans, the extent of which is unknown. Non-spraying methods such as sticky traps would greatly reduce the potential harm to non-target species and the environment.

According to CDFA and the manufacturer (proponents), the OLR-F is specific to the *Omnivorous leafroller*. The proponents claim the OLR-F spray is expected to have a 80% efficacy rate against the LBA moth. By the proponents own admission, the OLR-F spray is affecting non-target species, such as the LBA moth. Additionally, there are many Lepidoptera that share the same primary attractant pheromone as the LBAM and *Omnivorous leafroller*. Therefore many Lepidoptera share the same primary attractant pheromone that is in OLR-F & LBAM-F spray. It is likely non-target species who share the E11-14Ac as their primary pheromone compound are in danger of mating disruption.

## Pheromone compounds in CheckMate spray:

LBAM-F & OLR-F : E11-14Ac primary compound of attractant pheromone found in 8 species

Z11-14Ac compound of attractant pheromone found in 6 species

E9E11-14Ac compound found in 2 species

**Active ingredients LBAM-F & OLR-F: (primary pheromone compound E11-14Ac)**

**CheckMate© LBAM-F**

active ingredients:

(E)-11-Tetradecen-1-yl Acetate ..... 16.90% = Tetradecenyl acetate E11-14Ac  
(E,E)-9,11-Tetradecadien-1-yl Acetate..... 0.71% = Tetradecadienyl acetate E9E11-14Ac  
Other ingredients:.....82.39%

**CheckMate© OLR-F**

active ingredients:

(E)-11-Tetradecen-1-yl acetate ..... 20.6 % = Tetradecenyl acetate E11-14Ac  
(Z)-11-Tetradecen-1-yl acetate .....3.19 % = Tetradecenyl acetate Z11-14Ac  
Other ingredients:.....76.24%

**research sources :**

942 moths in Monterey County: [http://bscit.berkeley.edu/eme/Browse\\_Calmoth\\_Counties.html](http://bscit.berkeley.edu/eme/Browse_Calmoth_Counties.html)

Pheromone database: <http://www.pherobase.com/>

Pheromone database: <http://www.nysaes.cornell.edu/pheronet/speciesindex.html>

## Pheromone Search of 942 Monterey County Lepidoptera Species

seq num	genus	species	sex	location	county	collector	coll date	specimen loc
? 59002	Abagrotis	apposita		Big Creek Reserve	Monterey	J.Powell	Oct 3 91	UCB
? 58914	Abagrotis	denticulata		Big Creek Reserve	Monterey	J.Powell	Aug 17 88	UCB
? 59030	Abagrotis	reedi		Big Creek Reserve	Monterey	J.Powell	Oct 3 91	UCB
? 58980	Abagrotis	scopeops		Big Creek Reserve	Monterey	J.Powell	Sep 4 91	UCB
? 58850	Abagrotis	trigona		Big Creek Reserve	Monterey	J.Powell	Sep 3 91	UCB
? 58967	Abagrotis	variata		Big Creek Reserve	Monterey	J.Powell	Sep 27 87	UCB
? 29915	Acanthopteroctetes	unifascia		Pfeiffer-Big Sur St Pk	Monterey	D.L. Wagner	Mar 11 84	UConn
? 56359	Acerra	normalis		Big Creek Reserve	Monterey	J.Powell	Mar 26 87	UCB
? 38631	Achyra	occidentalis		Big Creek Reserve	Monterey	J. Powell	Apr 27 90	UCB
? 36990	Acleris	britannia		Big Creek Reserve	Monterey	YFH	Apr 27 90	
? 36961	Acleris	hastiana	F	Bixby Cyn	Monterey	W. Tilden	Jul 23 48	UCB
? 36980	Acleris	keiferi	F	Bixby Cyn	Monterey	W. Tilden	Aug 25 48	UCB
N 37046	Acleris	maximana		Carmel	Monterey	L.Slevin	Dec 19 26	UCB
? 37038	Acleris	nigrolinea	F	Carmel	Monterey	L.S.Slevin	Dec 19 26	UCB
? 37006	Acleris	senescens		Big Creek Reserve	Monterey	J.Powell	Jun 7 89	UCB
? 52267	Aconitia	sedata cacola		Carmel	Monterey	Buckett & Bauer coll.	Apr 28 24	UCD
? 40220	Acrobasis	competella		Big Creek Reserve	Monterey	J.A. Powell	Jul 6 92	UCB
? 40194	Acrobasis	tricolorella		Big Creek Reserve	Monterey	J.A. Powell	Sep 4 91	UCB
? 34899	Acrolepiopsis	californica		Big Creek Reserve	Monterey	J. Powell	May 27 87	UCB
? 30773	Acrolophus	laticapitannus		Big Creek Reserve	Monterey	J. Powell	Aug 18 88	UCB
? 30794	Acrolophus	pyramellus		Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
? 30809	Acrolophus	variabilis		Big Creek Reserve	Monterey	J. Powell	Aug 17 88	UCB
? 52451	Acronicta	funeralis		Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
? 52483	Acronicta	mammorata		Big Creek Reserve	Monterey	J. Powell	Sep 3 91	UCB
? 52532	Acronicta	perdita		Big Creek Reserve	Monterey	J. Powell	Apr 23 87	UCB
? 30433	Adela	flammeusella		Big Creek Reserve	Monterey	Powell, Hsu	May 4 91	UCB
? 30355	Adela	punctiferella		Big Creek Reserve	Monterey	J. Powell	May 4 91	UCB
? 30384	Adela	septentrionella		SW Arroyo Seco	Monterey	J. Powell	May 3-9 75	UCB
? 30369	Adela	singulella		NE Arroyo Seco	Monterey	Powell, Chemsak	May 5 75	UCB
? 30410	Adela	thorpella	M	6 mi N Jolon	Monterey	R.W.Thorp	Apr 15 64	
? 30462	Adela	trigrapha		Big Creek Reserve	Monterey	J. Powell	Apr 10 89	UCB
? 58747	Adelphagrotis	indeterminata		Big Creek Reserve	Monterey	J.Powell	Oct 2 91	UCB
? 58737	Adelphagrotis	stellaris		Big Creek Reserve	Monterey	J.Powell	Aug 17 88	UCB
? 55710	Admetovis	similaris		Big Creek Reserve	Monterey	Hsu, Powell	Jun 14-16 91	UCB
? 44303	Aethaloida	packardia		21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
Y 31788	Agonopterix	alstroemeriana		Big Creek Reserve	Monterey	F.Arias	Oct 23 89	UCB
? 31733	Agonopterix	clarkei		Carmel	Monterey	R.H. Leuschner	Apr 6 90	RHL
? 31742	Agonopterix	fusciterminella		Monterey	Monterey			UCB
? 31825	Agonopterix	nervosa?		Big Creek Reserve	Monterey	J. Powell	Sep 28 87	UCB
? 31839	Agonopterix	new sp. (Petastis)		Big Creek Reserve	Monterey			UCB
? 31717	Agonopterix	oregonensis	F	Marina	Monterey	J.F.G. Clarke	Apr 13 44	USNM
? 31801	Agonopterix	rosaciliella		Big Sur	Monterey	J. Arnold	Jun 2 59	UCB

? = Pheromone unknown N = CheckMate pheromone compounds not identified Y = CheckMate pheromone compounds Identified

Pheromone Search of 942 Monterey County Lepidoptera Species

?	31762	Agonopterix	sabulella		Big Creek Reserve	Monterey	J. Powell	Jun 7 89	UCB
?	39717	Agripphila	anceps		Carmel	Monterey	L. S. Stevin	Oct 16 27	LACM
?	54632	Agrochola	purpurea		Pfeiffer Redwoods at Big	Monterey	R.L. Langston	May 10 69	RL
?	57250	Agrotis	aeneipennis		Big Creek Reserve	Monterey	J.Powell	May 4 91	UCB
?	57240	Agrotis	gravis			Monterey	not given	late March	USNM
Y	57303	Agrotis	ipsilon	Z11-14Ac	Big Creek Reserve	Monterey	J.Powell	Nov 6 88	UCB
N	57222	Agrotis	vancouverensis		Salinas	Monterey	G.T. York	May 27 43	CNC
N	57175	Agrotis	vetusta		Big Creek Reserve	Monterey	J.Powell	Sep 27 87	UCB
?	35242	Alcathoe	verruugo		Hastings Res nr James	Monterey	not given	Jul 19 40	UCB
?	34496	Alucita	hexadactyla		Big Creek Reserve	Monterey	RZ, BS	Jun 24 92	UCB
?	52672	Alypia	mariposa		SE Carmel Vly Village	Monterey	W. Patterson	Apr 22 92	WDP
?	41563	Amblyptilia	pica marina		Monterey	Monterey	F. Sala	Aug 10 98	LACM
N	37773	Amobia	cuneana		Big Creek Reserve	Monterey	J.Powell	Sep 4 91	UCB
Y	53118	Amphipoea	americana pacifica	Z11-14Ac	Big Creek Reserve	Monterey	J. Powell	Sep 3 91	UCB
?	53679	Amphipyra	pyramidoides		Big Sur	Monterey	J. Powell	Oct 5 86	UCB
?	30699	Amydria	arizonella		Big Creek Reserve	Monterey		Jul 21-22 92	UCB
?	30711	Amydria	confusella		Bigler Reserve, Whale	Monterey	Arias, Goderez	Oct 12 89	UCB
?	40337	Anadelosemia	condigna?		Big Creek Reserve	Monterey	J.A. Powell	Oct 23-31 89	UCB
?	41342	Anagasta	kuehniella		Big Creek Reserve	Monterey	J.A. Powell	Nov 6 88	UCB
?	43342	Anavitrinella	ocularia		Hastings Reserve	Monterey	D.D. Linsdale	Mar 28 59	UCB
N	36572	Ancylis	columbiana		Monterey	Monterey	Stevens, Sartwell, Kod	1977-78	CosU or UCB
N	36616	Ancylis	mediofasciana		Big Creek Reserve	Monterey	J.Powell	Apr 12 85	UCB
?	36569	Ancylis	metamelana angulifasciana		Big Creek Preserve	Monterey			
N	36585	Ancylis	simuloides		Big Creek Reserve	Monterey	YFH	Apr 13 90	UCB
?	56831	Anhimella	contrahens conar		Big Creek Reserve	Monterey	B. Scaccia	May 27-28 92	UCB
?	56822	Anhimella	perbrunnea		Big Creek Reserve	Monterey	J.Powell	Aug 25 89	UCB
?	54247	Annaphila	astrologa		F Monterey	Monterey	B.Weber	in Jul 41	
?	54197	Annaphila	danistica		M Salinas Riv nr Salinas	Monterey	B.Weber	Mar 9 41	
?	54344	Annaphila	decia		M Monterey	Monterey		Mar 30 27	
?	54380	Annaphila	diva		Big Creek Reserve	Monterey	J. Powell	Mar 26 80	UCB
?	54265	Annaphila	divinula		Big Creek Reserve	Monterey	J DeBenedictis	Apr 13 85	UCB
?	54279	Annaphila	lithosina		S Arroyo Seco	Monterey	R. Wharton	May 7 75	UCB
?	54406	Annaphila	spila		Big Creek Reserve	Monterey	J. Powell	Apr 10 89	UCB
?	32761	Anoncia	ortes		Big Creek Reserve	Monterey	J. Powell	Jun 6 92	UCB
?	37214	Anopina	triangulana		M Hastings Reservation	Monterey	B.Davis	Aug 15 54	UCB
?	41536	Anstenoptilia	marmarodactyla		Big Creek Reserve	Monterey	J.A. Powell	Jun 16 91	UCB
?	32125	Antaeotricha	manzanitae		Arroyo Seco	Monterey	B. Villegas	Jun 4 75	UCD
N	48991	Antherea	polyphemus polyphemus		Big Creek Reserve	Monterey	J.Powell	Jun 6 89	UCB
?	52766	Apamea	albina		Big Creek Reserve	Monterey	JAP, YFH	May 3 91	UCB
?	52788	Apamea	amputatrix		Big Creek Reserve	Monterey	J. Powell	Jun 6 89	UCB
?	52804	Apamea	castanea		Big Creek Reserve	Monterey	Hsu, Powell	Jun 5-8-89	UCB
?	52844	Apamea	cinifacta		Big Creek Reserve	Monterey	J. Powell	Apr 30 90	UCB
?	52695	Apamea	cuculiformis		Big Creek Reserve	Monterey	J. Powell	May 27 87	UCB

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?	52870	Apamea	finitima cerviana		Big Creek Reserve	Monterey	J. Powell	Apr 13 85	UCB
?	50177	Apantesis	hewletti		Big Sur	Monterey	R. Mattoni	Jun 16 49	LACM
?	50191	Apantesis	nevadensis		Chualar	Monterey	W.H. Lange	Oct 19 67	UCD
?	50150	Apantesis	ornata ornata		Big Creek Reserve	Monterey	J.Powell	May 1 92	UCB
?	50211	Apantesis	proxima		Big Creek Reserve	Monterey	J.Powell	Apr 21 93	UCB
?	44026	Apodrepanulatrix	litaria		Big Creek Reserve	Monterey	J.Powell	Oct 3 91	UCB
?	40304	Apomyvelis	bistrialata	F	Big Creek Reserve	Monterey	J.A. Powell	Oct 3-4 85	UCB
?	50080	Archaris	picta		Carmel Valley	Monterey	B.Walsh	Oct 14 73	
Y	37508	Archips	argyrospila	E11-14Ac	Hastings Reservation	Monterey	B.Davis	May 23 54	UCB
?	46779	Archirhoe	neomexicana		Big Creek Reserve	Monterey	J.A. Powell	Feb 21 88	UCB
?	49382	Arctionotus	lucidus		Chualar	Monterey	W.H. Lange	Feb 18 62	UCD
?	34869	Argyresthia	cupressella		Big Creek Reserve	Monterey	J. Powell	Jun 3 91	UCB
?	34871	Argyresthia	franciscella		Big Creek Reserve	Monterey	J. Powell	Jun 5 92	UCB
Y	37315	Argyrotaenia	citrana	Z11-14Ac	Carmel	Monterey	J.Kusche	Oct 8 33	UCB
?	37294	Argyrotaenia	franciscana franciscana		Bixby Cyn	Monterey	Tilden	Aug 24 48	UCB
?	37281	Argyrotaenia	niscana		Hastings Reservation	Monterey	B.Davis	May 23 54	UCB
?	33028	Aristotelia	adenostomae		Big Creek Reserve	Monterey	J. Powell	Sep 3 91	UCB
?	33042	Aristotelia	argentifera		5 mi NE Arroyo Seco	Monterey	J. Powell	May 4 75	UCB
?	33061	Aristotelia	sp nr corrollina		Big Creek Reserve	Monterey			
?	33080	Aristotelia	sp nr isopelta		Big Creek Reserve	Monterey	Y.F. Hsu	Jun 7 93	UCD
?	33403	Arlia	diversella		Big Creek Reserve	Monterey	J. Powell	Jun 5 90	UCB
?	34338	Aroga	erigonella		Big Creek Reserve	Monterey			
?	34385	Aroga	new sp RWH		Big Creek Reserve	Monterey			
?	34356	Aroga	paraplutea		Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	34388	Aroga	sp (Eriogonum latifolium)		Big Creek Reserve	Monterey			
?	34382	Aroga	unifasciella		Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	32970	Arottura	new sp nr powelli		Big Creek Reserve	Monterey			
?	40052	Arta	epicoenalis		Big Creek Reserve	Monterey	Powell, Hsu	Jun 6 89	UCB
?	53273	Aseptis	binotata binotata		Big Creek Reserve	Monterey	B.Scaccia	Mar 13 93	UCB
?	53239	Aseptis	ethnica		Big Creek Reserve	Monterey	JAP, YFH	Jun 6 89	UCB
?	53216	Aseptis	fumeola		Big Creek Reserve	Monterey	B.Scaccia	Apr 24 93	UCB
?	53166	Aseptis	fumosa		Big Creek Reserve	Monterey	Zuniga, Scaccia	Jun 23-24 92	UCB
?	53315	Aseptis	paviae		Big Creek Reserve	Monterey	J. Powell	Jul 7 86	UCB
?	53194	Aseptis	perfumosa		Big Creek Reserve	Monterey	J. Powell	Apr 21 93	UCB
?	50854	Asticta	victoria		Big Creek Reserve	Monterey	J.Powell	Aug 25 89	UCB
N	51834	Autographa	californica		Big Creek Reserve	Monterey	J.Powell	Sep 4 91	UCB
?	51887	Autographa	labrosa		Carmel	Monterey	L.S. Slavin	May 23 31	UCD
?	51865	Autographa	pasiphaeia		Big Creek Reserve	Monterey	J.Powell	Aug 17 88	UCB
?	51764	Autoplusia	olivacea		Carmel	Monterey	Buckett & Bauer coll.	Apr 26 34	UCD
?	54175	Axenus	arvalis		Big Creek Reserve	Monterey	JAP, YFH	May 4 91	UCB
?	35458	Bactra	maioriana	F	Castroville	Monterey	W.H. Lange	Jun 2 61	UCD
?	35464	Bactra	miwok	M	Asilomar	Monterey	G.I.Stage	May 17 59	UCB
?	32613	Batrachedra	striolata		Big Cr Reserve	Monterey	Powell, Zuniga	Jun 5-7 92	UCB

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?	30989	Bedellia	somnulentella	Big Creek Reserve	Monterey	J. Powell	Nov 6 88	UCB
?	55357	Behrensia	conchiformis conchiformis	Big Cr Reserve	Monterey	J. Powell	Mar 2 87	UCB
?	53072	Beniaminiola	colorada	Big Sur	Monterey	J. Powell	Oct 5 86	UCB
?	43404	Biston	betularia cognitaria	Big Creek Reserve	Monterey	J. Powell	Mar 23 89	UCB
?	34520	Bondia	?shastana	Big Creek Reserve	Monterey	Powell, Hsu	Apr 12 90	UCB
?	34509	Bondia	comonana	Big Creek Reserve	Monterey	J. Powell	Oct 30 89	UCB
?	32228	Borkhausenia	nefax	Big Creek Reserve	Monterey	J. Powell	Sep 27 87	UCB
?	31098	Bucculatrix	albertella	Oak Hills	Monterey	D.Green	May 10 77	UCB
?	31120	Bucculatrix	ceanothiella	Pfeiffer-Big Sur SP	Monterey	D.L. Wagner	Mar 11 84	UConn
?	31074	Bucculatrix	koebelella	Big Creek Reserve	Monterey	J. Powell	Jun 7 93	UCB
?	31133	Bucculatrix	quadrigenina	Carmel High Mdw	Monterey	F. Sala	Oct 16 97	UCB
?	31065	Bucculatrix	taeniola	Salinas	Monterey			
?	31045	Bucculatrix	variabilis	Big Creek Reserve	Monterey	J. Powell	Mar 22 89	UCB
N	41368	Cadra	cautella	5 mi S Salinas	Monterey	not given	Nov 15 71	UCB
?	51397	Caenurgina	togataria	Big Creek Reserve	Monterey	J. Powell	Aug 25 89	UCB
?	51429	Caenurgina	caerulea	Big Creek Reserve	Monterey	J. Powell	Apr 22 93	UCB
N	51478	Caenurgina	erechta	Big Creek Reserve	Monterey	K. Osborne	Jun 5 92	UCB
?	31151	Caloptilia	aceriella (or sp nr)	Big Creek Reserve	Monterey	J. Powell	Aug 2 92	
?	31159	Caloptilia	agrifoliella	Bixby Cyn	Monterey	J. W. Tilden	Jul 27 48	
?	31177	Caloptilia	alnivorella	Pfeiffer-Big Sur SP	Monterey	D.L. Wagner	May 19 85	UConn
?	31197	Caloptilia	diversilobiella	Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	31242	Caloptilia	palustrifella	Big Creek Reserve	Monterey	J. Powell	Jun 7 89	UCB
?	31259	Caloptilia	reticulata	Fort Ord	Monterey	D.Green	May 10 77	
?	31289	Caloptilia	stigmatella	Camel	Monterey	R.H. Leuschner	Nov 15 90	RHL
?	35265	Caloreas	apocynoglossa	Big Creek Reserve	Monterey	J. Powell	Apr 11-13 85	UCB
?	31532	Cameraria	agrifoliella	Prunedale	Monterey	D.Green	Mar 25 77	UCB
?	31552	Cameraria	diabloensis	17.5 mi W Jolon	Monterey		Mar 19 69	
?	31566	Cameraria	iacintoensis	Big Creek Reserve	Monterey	J. Powell	Apr 28 90	UCB
?	31603	Cameraria	mediodorsella	Arroyo Seco Park	Monterey	P.A. Opler	Oct 7 67	UCB
?	31621	Cameraria	memoris	Big Creek Reserve	Monterey	JAP & JBW	Mar 26 80	UCB
?	31678	Cameraria	wisizeniella	17.5 mi W Jolon	Monterey	J. Powell	Mar 19 69	
?	41440	Capperia	ningoris	Big Creek Reserve	Monterey	J.A. Powell	Apr 12 85	UCB
?	53778	Caradrina	extima	Big Creek Reserve	Monterey	JB, JAD	May 27 87	UCB
?	54907	Catabena	lineolata	Arroyo Seco	Monterey	D. Burdick	May 23 58	UCB
?	51514	Catocala	aholbah	Big Creek Reserve	Monterey	J. Powell	Aug 17 88	UCB
?	51570	Catocala	cleopatra?	Big Creek Reserve	Monterey	J. Powell	Sep 3 91	UCB
?	51538	Catocala	ilia zoe	Big Creek Reserve	Monterey	J. Powell	Sep 3 91	UCB
?	51690	Catocala	ophelia	Big Creek Reserve	Monterey	J. Powell	Oct 3 91	UCB
?	51667	Catocala	verrilliana verrilliana	Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	58776	Cerastis	gloriosa	Big Cr Reserve	Monterey	Powell, Prentice	Feb 28 89	UCB
?	58782	Cerastis	robertsoni	Big Cr Reserve	Monterey	Crabo, Powell, Roberts	Feb 2 94	CNC
?	46286	Ceratodalia	guenata	nr Carmel	Monterey	J.A. Comstock	Jun 2 31	LACM
?	30339	Chalceopla	lobata	Ft Ord, Marina Dunes	Monterey	J. Powell	May 18 77	UCB

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?	30324	Chalceopla	simpliciella		Paloma Cr	Monterey	J. Chemsak	May 9 75	UCB
?	38452	Chalcoela	ipitalis		21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
?	45742	Cheteoscelis	fasciolaria		Big Creek Reserve	Monterey	J.A. Powell	Jun 5 82	UCB
?	33731	Chionodes	acrina		Big Creek Reserve	Monterey	J. Powell	Oct 29 89	UCB
?	33752	Chionodes	bicolor		Carmel	Monterey	R.H. Leuschner	Jun 25 69	RHL
?	33771	Chionodes	braunella		Big Creek Reserve	Monterey	J. Powell	Aug 17 88	UCB
?	33799	Chionodes	ceanothiella		Big Creek Reserve	Monterey	J. Powell	Feb 22 88	UCB
?	33820	Chionodes	chrysopyla		Hastings Reservation	Monterey	J. Powell	May 4 58	UCB
?	33839	Chionodes	dammersi		Marina Dunes, Fort Ord	Monterey	J. Powell	May 18 77	UCB
?	33861	Chionodes	donahuertum		Big Creek Reserve	Monterey	J. Powell	Apr 11 85	UCB
?	33920	Chionodes	impes		Carmel	Monterey	A.H. Vachell	In Jun	
?	33964	Chionodes	lophosella		Big Creek Reserve	Monterey	In MONA	Apr 23-25 87	UCB
?	34003	Chionodes	nanodella		Big Creek Reserve	Monterey	J. Powell	Jul 7-8 86	UCB
?	34045	Chionodes	occidentella		Carmel	Monterey	A.H. Vachell	Mar 26 38	USNM
?	34115	Chionodes	petalumensis		Big Creek Reserve	Monterey	J. Powell	Aug 17 88	UCB
?	34177	Chionodes	restio		Arroyo Seco Camp	Monterey	J. Donahue	May 26-28 78	LACM
?	34192	Chionodes	retiniella		Big Creek Reserve	Monterey	J. Powell	Jul 6 92	UCB
?	34217	Chionodes	sabiniana?		Big Creek Reserve	Monterey	J. Powell	May 27 87	UCB
?	34258	Chionodes	trichostola		Big Creek Reserve	Monterey	F. Arias	Sep 18 89	UCB
?	45764	Chlorochlamys	triangularis		Big Creek Reserve	Monterey	J.A. Powell	Sep 4 91	UCB
?	45425	Chlorosea	banksaria banksaria		Carmel	Monterey	L.S. Slevin	Jul 2 33	LACM
Y	37394	Choristoneura	rosaceana E11-14Ac, Z11-14Ac		Hastings Reservation	Monterey	D. Linsdale	Jun 12 49	
?	39368	Choristostigma	elegantalis		Big Creek Reserve	Monterey	J. Powell	Jun 8 89	UCB
?	39353	Choristostigma	zephyralis		Big Creek Reserve	Monterey	JAP, YFH	May 1 92	UCB
?	33020	Chrysoestha	versicolorella		Carmel	Monterey			
?	53444	Chytonix	divesta		Big Creek Reserve	Monterey	BS, RZ	Jul 21 92	UCB
?	50891	Cissusa	indiscreta		Big Creek Reserve	Monterey	J. Powell	Mar 22 89	UCB
?	49824	Cisthene	deserta		Big Creek Reserve	Monterey	J. Powell	Sep 3 91	UCB
?	49838	Cisthene	faustina		Salinas	Monterey	R.L. Langston	Jun 12 81	RL
?	49810	Cisthene	liberomacula		Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	37553	Clepsis	fucana		Salinas	Monterey	Linsdale	Apr 11 62	UCB
?	49501	Clostera	apicalis		Big Creek Reserve	Monterey	J. Powell	Apr 12 85	UCB
N	37072	Cnephasia	longana		Marina	Monterey	J. Powell	May 1 95	UCB
?	43443	Cochisea	sinuaria		Big Creek Reserve	Monterey	J. Powell	Oct 3 91	UCB
?	37826	Cochylis	carmelana		Big Creek Reserve	Monterey	J. Powell	Apr 12 90	UCB
Y	37821	Cochylis	nana E11-14Ac		Big Creek Reserve	Monterey	F. Arias-Godene	Apr 26 90	UCB
?	32298	Coelopoeta	glutinosi		Arroyo Seco	Monterey	Real, Powell	May 3 75	UCB
?	32313	Coelopoeta	phacelliae		Big Cr Reserve	Monterey	J. Powell	Feb 21-22 88	UCB
?	32530	Coleophora	accordella		Big Creek Reserve	Monterey	J. Powell	Feb 28 89	UCB
?	32537	Coleophora	baccharella		Big Creek Reserve	Monterey	D.L. Wagner	Oct 3 85	UConn
?	32549	Coleophora	bistrigella		Ord Mt	Monterey			
?	32516	Coleophora	discostrata		Big Cr Reserve	Monterey	B. Landry	Jun 8 96	UCB
?	32542	Coleophora	glaucella		Big Creek Reserve	Monterey	J. Powell	Apr 28 90	UCB

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Pheromone Search of 942 Monterey County Lepidoptera Species

?	32511	Coleophora	sacramenta	Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	32579	Coleophora	sp #3 (tan, wht, brn streaked)	Big Creek Reserve	Monterey	J. Powell	Jun 6 89	UCB
?	32582	Coleophora	sp #6 (small, wh, tan, brn)	Big Creek Reserve	Monterey	J. Powell	Sep 3 91	UCB
?	32584	Coleophora	sp #7 (brn & wh, long palpi)	Big Creek Reserve	Monterey	F. Arias	Sep 15 89	UCB
?	32586	Coleophora	sp #8 (small, gry brn, wh specks)	Big Creek Reserve	Monterey	J. Powell	Jun 14 91	UCB
?	32604	Coleophora	tildeni	Big Creek Reserve	Monterey	J. Powell	Oct 3 85	UCB
?	32551	Coleophora	viscidiflorella	Big Creek Reserve	Monterey	J. Powell	May 27 87	UCB
?	33144	Coleotechnites	bacchariella	Big Creek Reserve	Monterey	J. Powell	Feb 21 88	UCB
?	35363	Comadia	bertholdi indistincta	Big Creek Reserve	Monterey	J. Powell	Jun 14 91	UCB
?	30520	Coptodisca	arbutiella	Big Creek Reserve	Monterey	J. Powell	May 12 92	UCB
?	30548	Coptodisca	powelliella	Arroyo Seco Camp	Monterey	J. Powell	Feb 12 68	
?	30506	Coptodisca	saliciella	Big Creek Reserve	Monterey	J. Powell	Nov 19 90	UCB
?	46736	Coryphista	meadii	Carmel, High Midw	Monterey	F.P. Sala	Jul 17 94	LACM
?	54082	Cosmia	calami	Big Creek Reserve	Monterey	J. Powell	May 3 91	UCB
?	39654	Crampus	sperryellus	Big Creek Reserve	Monterey	J. Powell	Apr 13 90	UCB
?	31360	Cremastobombycia	new sp. (Baccharis)	Big Creek Reserve	Monterey	JFH	Jun 6 90	UCB
?	31361	Cremastobombycia	new sp. (Gnaphalium, Artemisia)	Big Creek Reserve	Monterey	J. Powell	May 2 92	UCB
N	52916	Cymodes	devastator	Big Creek Reserve	Monterey	J. Powell	Apr 11 85	UCB
?	52594	Cyphia	oaklandiae	Big Creek Reserve	Monterey	J. Powell	Sep 28 87	UCB
?	52613	Cyphia	viridata	Big Creek Reserve	Monterey	J. Powell	May 22 92	UCB
?	50362	Ctenucha	multifaria	Carmel Highlands	Monterey	R.L. Langston	Jul 14 92	CAS
?	55434	Cucullia	dorsalis	Big Creek Reserve	Monterey	J. Powell	Sep 3-5 91	UCB
?	55487	Cucullia	eulepis	Big Creek Reserve	Monterey	J. Powell	Aug 25 89	UCB
?	55401	Cucullia	serraticornis	Salinas	Monterey	R.L. Langston	Feb 2 81	RLI
?	45883	Cyclophora	datara	Big Creek Reserve	Monterey	J.A. Powell	Sep 4 91	UCB
?	45907	Cyclophora	nanaria	Big Creek Reserve	Monterey	J.A. Powell	Oct 3 91	UCB
N	36820	Cydia	americana	Big Creek Reserve	Monterey	J. Powell	Mar 26 80	UCB
N	36788	Cydia	bracteata	Big Creek Reserve	Monterey	J. Powell	May 2 92	UCB
N	36803	Cydia	cupressana	Big Creek Reserve	Monterey	J. Powell	May 3 91	UCB
?	36899	Cydia	latiferranus	Big Creek Reserve	Monterey	J. Powell	Oct 3 85	UCB
N	36841	Cydia	piperrana	Big Creek Reserve	Monterey	JAP, YFH	Jun 15 91	UCB
?	36813	Cydia	prosperrana	Big Creek Reserve	Monterey	J. Powell	Apr 12 90	UCB
?	56160	Dargida	procinta	Big Creek Reserve	Monterey	J. Powell	Nov 6-8 88	UCB
?	32180	Decantha	stonda	Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	37178	Decodes	aneuretus	Carmel	Monterey	A.H. Vachell	In April	AMNH
?	37200	Decodes	asaphodes	Salinas Riv at King City	Monterey	J. Powell & P.A. Rude	Nov 9 77	CAS
?	37100	Decodes	basiplaganus	Big Creek Reserve	Monterey	J. Powell	Sep 3 91	UCB
?	37117	Decodes	fragarianus	Arroyo Seco	Monterey	J.P. Donahue	May 28-31 76	
?	37185	Decodes	horarianus	Hastings	Monterey	T. Davies	Mar 4 54	UCB
?	34472	Deoclon	yuccasella	Big Creek Reserve	Monterey	J. Powell	Nov 7 88	UCB
?	39544	Diastictis	fracturalis	Big Creek Reserve	Monterey	J. Powell	Aug 18 88	UCB
?	39561	Diastictis	sperryorum	Big Cr Reserve	Monterey	Powell, Perntice	Feb 28 89	UCB
?	58359	Dichagyris	variabilis	Big Creek Reserve	Monterey	J. Powell	Sep 28 87	UCB

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?	34457	Dichomeris	baxa	F	Presidio of Monterey	Monterey	J.F. Clarke	Apr 18 44	USNM
?	45650	Dichorda	illustraria		2 mi S Big Sur	Monterey	R.M. Brown	May 7 76	RMB
?	38430	Dicymolomia	metalliferalis		Big Creek Reserve	Monterey	J. Powell	Oct 3 85	UCB
?	38442	Dicymolomia	micropunctalis		Carmel Valley	Monterey	J.B. Walsh	Aug 10 75	UCD
?	42450	Digrammia	californiaria		Big Creek Reserve	Monterey	B.Scaccia	May 28 92	UCB
?	42365	Digrammia	delectata		Big Cr Reserve	Monterey	J. Powell	Sep 3-5 91	UCB
?	42410	Digrammia	muscarifata		Big Creek Reserve	Monterey	J.Powell	Sep 4 91	UCB
?	42554	Digrammia	neptaria		Nacimiento Cmpgrnd	Monterey	R.M. & M.A.Brown	May 29 82	RMB
N	40633	Diorcytria	abietivorella		Big Creek Reserve	Monterey	J.A. Powell	Aug 2 92	UCB
N	40667	Diorcytria	auranticella		Cornob Cyn	Monterey	J. & K. Donahue	Jul 29 90	LACM
?	40691	Diorcytria	zimmermani		Big Creek Reserve	Monterey	J.A. Powell	Oct 2 91	UCB
?	55598	Discestra	oaklandiae		Big Creek Reserve	Monterey	Hsu., Powell	Apr 12-13 92	UCB
Y	55552	Discestra	trifolii		Big Creek Reserve	Monterey	J. Powell	Aug 25-26 89	UCB
?	55426	Dolocucullia	dentilinea		Big Creek Reserve	Monterey	B.Scaccia	Jun 6 92	UCB
?	43975	Drepanulatrix	baueraria		Big Sur	Monterey	R.M. Brown	26054	RMB
?	43778	Drepanulatrix	bifiliata bifiliata		Nacimiento River Cmpg	Monterey	R.M. Brown	Apr 10 80	RMB
?	43888	Drepanulatrix	carnearia		Big Creek Reserve	Monterey	J.Powell	Nov 6 88	UCB
?	43926	Drepanulatrix	falcataria		Big Creek Reserve	Monterey	J.Powell	Jun 14 91	UCB
?	43745	Drepanulatrix	hulstii hulstii		Big Creek Reserve	Monterey	J.Powell	Apr 13 85	UCB
?	43996	Drepanulatrix	monicaria		Big Sur	Monterey	R.M. & M.A.Brown	May 27 82	RMB
?	43825	Drepanulatrix	quadriaria usta		Carmel	Monterey	L.S.Slevin	Mar 3 26	
?	43961	Drepanulatrix	secundaria		Big Sur	Monterey	R.M. Brown	Apr 2 78	RMB
?	43710	Drepanulatrix	unicalararia		Big Sur	Monterey	R.M. Brown	Apr 2 78	RMB
?	54714	Dyoitype	opina		Big Creek Reserve	Monterey	J.Powell	Oct 29-31 89	UCB
?	29852	Dyseriocrania	auricyanea		Big Creek Reserve	Monterey	J. Powell	Mar 22 89	UCB
N	46119	Dysstroma	brunneata ethela		Big Creek Reserve	Monterey	A. Zuniga	Jul 24 92	UCB
N	46047	Dysstroma	citrata		Big Creek Reserve	Monterey	J.A. Powell	Apr 28 90	UCB
?	46144	Dysstroma	mancipata hulstata		Arroyo Seco	Monterey	D. Burdick	May 23 58	UCB
?	46128	Dysstroma	mancipata mancipata		Big Creek Reserve	Monterey	J.A. Powell	Apr 12 90	UCB
?	46103	Dysstroma	rectiflavata		Arroyo Seco	Monterey	J.P. Donahue	May 26-28 78	LACM
?	29978	Ectoedemia	nr clemensella		Big Creek	Monterey			
?	56704	Egira	cognata cognata		Big Creek Reserve	Monterey	J.Powell	Jan 24 88	UCB
?	56713	Egira	cognata minorata		Carmel	Monterey	R.H. Leuschner	Feb 6 2000	KMR
?	56686	Egira	crucialis		Big Creek Reserve	Monterey	B. Scaccia	Apr 25 93	UCB
?	56735	Egira	curlalis		Big Creek Reserve	Monterey	J.Powell	Apr 13 85	UCB
?	56721	Egira	februalis		Hastings Reserve	Monterey	J.Powell	Mar 9-10 2000	UCB
?	56640	Egira	hiemalis		2 mi S Bradley	Monterey	R.L. Langston	Feb 2 81	RLI
?	56793	Egira	perlubens		2 mi SE Bradley	Monterey	R.L. Langston	Feb 2 81	CAS
?	56767	Egira	rubrica		Big Creek Reserve	Monterey	J.Powell	Feb 28 89	UCB
?	56671	Egira	vanduzeei		Big Creek Reserve	Monterey	J.Powell	May 1 92	UCB
?	32410	Elachista	cucullata	M	Big Creek Reserve	Monterey	Hsu. Powell	May 17 92	UCB
?	32386	Elachista	guilirella	M	Arroyo Seco	Monterey	E. Rogers	May 8 75	UCB
?	32392	Elachista	indisella	M	Big Creek Pres.	Monterey	Y.F. Hsu	APr 9-11 94	UCB

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?	30914	Elatobia	nr. carbonella		Big Creek	Monterey				UCB
N	41795	Emmelinea	monodactyla		Big Creek Reserve	Monterey	J.A. Powell	Jan 24 88		UCB
?	53423	Enargia	mephisto		Carmel	Monterey	R.H. Leuschner	Jun 25 69		RHL
?	35482	Endothenia	hebesana		King City	Monterey	C.W.O'Brien	Apr 1 59		UCB
?	32259	Endrosis	sarcitrella	M	Big Creek Reserve	Monterey	J. Powell	Oct 3 85		UCB
?	34529	Epermenia	californica		Big Creek Reserve	Monterey	J. Powell	Sep 28 87		UCB
?	34532	Epermenia	cicutella		Big Creek Reserve	Monterey	J. Powell	Mar 27 87		UCB
?	41200	Ephesiodes	gilvescentella		Big Creek Reserve	Monterey	J.A. Powell	May 26 87		UCB
?	36042	Epiblema	deverrae		Big Creek Reserve	Monterey	J.Powell	Jun 4-6 82		UCB
?	36296	Epinotia	albangulana		Big Creek Reserve	Monterey	J.Powell	Mar 26 80		UCB
?	36458	Epinotia	arcostaphulana		Big Creek Reserve	Monterey	JAP & BS	May 12 92		UCB
?	36543	Epinotia	biangulana		Big Creek Reserve	Monterey	J.Powell	Jun 14 91		UCB
?	36449	Epinotia	bigemina		Big Creek Reserve	Monterey	F.Arias	Nov 20 89		UCB
?	36416	Epinotia	crenana		Pacific Grove	Monterey	J.A. Chemsak	Apr 15 62		
?	36232	Epinotia	cupressi		Cypress Pt	Monterey				
?	36340	Epinotia	digitana		Big Creek Reserve	Monterey	D.L. Wagner	Jul 7 86		UConn
N	36386	Epinotia	emarginana		Big Creek Reserve	Monterey	J.Powell	Oct 30 89		UCB
?	36248	Epinotia	fumoviridana		Big Creek Reserve	Monterey	YFH	Jun 14 91		UCB
?	36222	Epinotia	hopkinsana		Big Creek Reserve	Monterey	J.Powell	Apr 12 90		UCB
?	36470	Epinotia	infuscana		Marina	Monterey	D.L. Wagner	Jan 2 84		
?	36208	Epinotia	johnsonana		Big Creek Reserve	Monterey	J.Powell	Apr 24 87		UCB
?	36511	Epinotia	kasloana		Big Creek Reserve	Monterey	J.Powell	Apr 13 85		UCB
?	36341	Epinotia	new sp nr digitana		Big Creek Preserve	Monterey				
?	36351	Epinotia	nigralbana		Big Creek Reserve	Monterey	J. Powell	Feb 22 88		UCB
?	36370	Epinotia	sagittana		Big Creek Reserve	Monterey	J.Powell	Apr 12 85		UCB
?	36553	Epinotia	signiferana		Big Creek Reserve	Monterey	J.Powell	Oct 3 91		UCB
?	36186	Epinotia	siskiyouensis		Big Creek Reserve	Monterey	J.Powell	Mar 21 89		UCB
?	36179	Epinotia	solandriana		Big Creek Reserve	Monterey	J.Powell	Mar 26 80		UCB
?	36315	Epinotia	terracoctana		Big Creek Reserve	Monterey	J.Powell	Sep 4 91		UCB
?	36499	Epinotia	vagana		Big Creek Reserve	Monterey	J.Powell	Mar 26 80		UCB
?	47297	Edirhoe	plebeculata		S Big Sur	Monterey	R.L.Langston	Feb 21 65		RLl
?	35422	Edisimus	argutanus	M	Fort Ord, South Rd	Monterey	J.Powell	Jul 15 76		UCB
?	52951	Eremobina	hanhami		Carmel	Monterey	R.Leuschner	Oct 22 63		LACM
?	29871	Eriocraniella	aurosparsella		N Escondido Cmpgrnd	Monterey	J. Powell	May 7-9 75		UCB
?	29899	Eriocraniella	falcata		Big Creek Reserve	Monterey	Powell, Hsu	Apr 12-13 90		UCB
?	29887	Eriocraniella	xanthocara		Fort Ord	Monterey	DSG	Mar 25 77		UCB
?	31990	Ethmia	albistrigella		S Big Sur	Monterey	R.L. Langston	May 14 66		RLl
?	31955	Ethmia	albitogata		Salinas R at King City	Monterey	J. Powell	Feb 24 75		UCB
?	32020	Ethmia	arctostaphylella		Big Creek Reserve	Monterey	J. Powell	Oct 3 91		UCB
?	31945	Ethmia	brevistriga aridicola		S Arroyo Seco	Monterey	R. Wharton	May 7 75		UCB
?	31936	Ethmia	brevistriga brevistriga		Big Creek Reserve	Monterey	J. Powell	Apr 28 90		UCB
?	31921	Ethmia	coquilletella		Big Creek Reserve	Monterey	J. Powell	Apr 10 89		UCB
?	32049	Ethmia	discostrigella discostrigella		Big Creek Reserve	Monterey	J. Powell	Sep 4 91		UCB

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?	31978	Ethmia	tricula	M	Gauzas Cr	Monterey	L. Turner	Apr 3 90	UCB
Y	40370	Etiella	zinkenella E11-14Ac. Z11-14Ac		Big Creek Reserve	Monterey	J.A. Powell	Aug 17 88	UCB
?	34591	Eucalantica	polita		Big Creek Reserve	Monterey	J. Powell	Apr 23 87	UCB
?	34604	Euceratia	castella		Big Creek Reserve	Monterey	J. Powell	Jun 8 93	UCB
N	39869	Euchromius	ocelleus		Big Creek Reserve	Monterey	J. Powell	Apr 13 90	UCB
?	51374	Euclidia	ardita		Big Creek Reserve	Monterey	J. Powell	Aug 13 90	UCB
?	35783	Eucosma	avolona	M	Arroyo Seco	Monterey	R.L. Langston	Aug 26 62	UCB
?	35833	Eucosma	comatulana	M	Carmel	Monterey	L.S. Slevin	Oct 20 28	UCB
?	35949	Eucosma	hasseanthi		Big Creek Reserve	Monterey	J. Powell	Sep 3 91	UCB
?	35857	Eucosma	maculataana?		Big Creek Reserve	Monterey	J. Powell	Jun 6 92	UCB
?	35763	Eucosma	new sp nr crambitana		Seaside	Monterey	JAP, Wolf	Sep 27 66	UCB
?	35943	Eucosma	primulana		Big Creek Reserve	Monterey	J. Powell	Jun 15 91	UCB
?	35773	Eucosma	ridingiana		Marina Dunes, W Seasi	Monterey	R.L. Langston	Aug 24 62	UCB
?	35923	Eucosma	willamsi	F	10 mi S Big Sur	Monterey	C. Smith	Aug 20 48	UCB
?	38045	Eudonia	franciscalis		Carmel	Monterey	F. Sala	Aug 1 91	LACM
?	38014	Eudonia	rectilinea		Big Creek Reserve	Monterey	J. Powell	Sep 9 91	UCB
?	38103	Eudonia	sp nr bronzalis		Big Creek Reserve	Monterey	L. Turner	Jul 7 90	UCB
?	43671	Eudrespanelatri	rectifascia		Big Creek Reserve	Monterey	B. Scaccia	May 28 92	UCB
?	46184	Eulithis	powellata		Carmel	Monterey	R.H. Leuschner	Jun 25 69	RHL
?	52089	Eumicremma	minima		Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	47333	Euphyia	implicata multilineata		Marina Dunes, W Seasi	Monterey	R.L. Langston	Aug 28 61	CIS
?	47342	Euphyia	minima		Marina Beach Dunes	Monterey	R.L. Langston	Aug 24 62	CIS
?	48250	Eupithecia	acutipennis		Big Creek Reserve	Monterey	J.A. Powell	Nov 18 90	UCB
N	48002	Eupithecia	annulata		Carmel	Monterey	R.H. Leuschner	In April	RHL
?	47957	Eupithecia	behrensata		Big Sur	Monterey	R.M. Brown	Apr 8 80	RMB
?	47823	Eupithecia	bivittata		Carmel	Monterey	R.H. Leuschner	In April	RHL
?	48412	Eupithecia	cestata		Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB
?	48422	Eupithecia	cestatoides		Big Creek Reserve	Monterey	JAP. YFH	Apt 12 90	UCB
?	48023	Eupithecia	cognizata		Carmel	Monterey	R.H. Leuschner	In April	RHL
?	48018	Eupithecia	cognizata		Big Creek Reserve	Monterey	J.A. Powell	Nov 7 88	UCB
?	47629	Eupithecia	columbiata		Carmel	Monterey	R.H. Leuschner	Apr 4 60	RHL
?	47907	Eupithecia	cupressata		Carmel	Monterey	R.H. Leuschner	In June	RHL
?	48205	Eupithecia	glivipennata		Big Creek Reserve	Monterey	J.A. Powell	Feb 28 89	UCB
?	48327	Eupithecia	graeffii graeffii		Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB
?	48394	Eupithecia	implorata		Big Creek Reserve	Monterey	J.A. Powell	Apr 11 85	UCB
?	48047	Eupithecia	interruptofasciata		Carmel	Monterey	R.H. Leuschner	Apr 4 60	RHL
?	47626	Eupithecia	karenae	F	Carmel	Monterey	R.H. Leuschner	Apr 4 60	LACM
?	47895	Eupithecia	macdunnoughi		Big Creek Reserve	Monterey	J.A. Powell	Feb 21 88	UCB
?	47715	Eupithecia	macrocarpata		Carmel	Monterey	R.H. Leuschner	Apr 6 90	RHL
?	47642	Eupithecia	maestosa maestosa		Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB
?	47790	Eupithecia	misturata misturata		Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB
?	47967	Eupithecia	multiscripta		Big Cr Reserve	Monterey	J. Powell	May 1-3 92	UCB
?	48186	Eupithecia	mystata		Big Creek Reserve	Monterey	J.A. Powell	Apr 21 93	UCB

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? 48360	Eupithecia	nevadata nevadata	Big Sur	Monterey	R.M. Brown	Apr 2 78	RMB	
? 48015	Eupithecia	olivacea	Carmel	Monterey	R.H. Leuschner	Apr 4 60	RHL	
? 47986	Eupithecia	perfusca perfusca	Carmel	Monterey	L.S. Slevin	Feb 6 28	UCD	
? 48176	Eupithecia	purpurissata	Carmel	Monterey	R.H. Leuschner	in April	RHL	
? 48425	Eupithecia	ravocostallata	Carmel	Monterey	R.H. Leuschner	in April	RHL	
? 48152	Eupithecia	rindgei	Nacimiento Cmpgrnd	Monterey	R.M. Brown	May 29 82	RMB	
? 47854	Eupithecia	rotundopuncta	Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB	
? 47704	Eupithecia	sabulosata	Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB	
? 48226	Eupithecia	scabrogata	Big Creek Reserve	Monterey	J.A. Powell	Feb 21 89	UCB	
? 48096	Eupithecia	segregata	Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB	
? 48268	Eupithecia	subapicata	Big Sur	Monterey	R.M. Brown	Apr 2 78	RMB	
? 47835	Eupithecia	subfuscata	Carmel	Monterey	F.P. Sala	Apr 29 93	RHL	
? 47670	Eupithecia	subvirens	Carmel	Monterey	R.H. Leuschner	in April	RHL	
? 47841	Eupithecia	tripunctaria	Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB	
? 48068	Eupithecia	zelmira	Big Creek Reserve	Monterey	J.A. Powell	Feb 28 89	UCB	
? 53414	Euplexia	benesimilis	Big Creek Reserve	Monterey	J. Powell	Aug 18 88	UCB	
? 44913	Eusarca	falcata	Big Creek Reserve	Monterey	J. Powell	Jun 5 90	UCB	
? 33618	Euscrobipalpa	arenaceariella	M	Big Creek Reserve	Monterey	J. Powell	May 4 91	UCB
? 33602	Euscrobipalpa	artemisiella	F	Big Creek Reserve	Monterey	J. Powell reared	May 26 95	UCB
? 46233	Eustoma	semiatrata	Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB	
? 57908	Euxoa	aequalis alko	Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB	
? 57583	Euxoa	atomeris	Big Creek Reserve	Monterey	J. Powell	Sep 3 91	UCB	
? 58019	Euxoa	bicoloraris	Big Creek Reserve	Monterey	JAP, YFH	Jun 5 89	UCB	
? 58065	Euxoa	bitascata	Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB	
? 58216	Euxoa	brevipennis	Salinas R at King City	Monterey	Powell, Rude	Nov 9 77	UCB	
? 57968	Euxoa	brunneigera brunneigera	Big Creek Reserve	Monterey	J. Powell, RZ	Jun 7 89	UCB	
? 57924	Euxoa	comosa luteulenta	Big Creek Reserve	Monterey	J. Powell	Jun 6 89	UCB	
? 58290	Euxoa	diformis	Big Creek Reserve	Monterey	J. Powell	Nov 6 88	UCB	
? 57500	Euxoa	extranea	Big Creek Reserve	Monterey	J. Powell	Jun 7 89	UCB	
? 57554	Euxoa	fuscigera	Big Creek Reserve	Monterey	J. Powell	Oct 30 89	UCB	
? 57954	Euxoa	infauusta	Big Creek Reserve	Monterey	JAP, YFH	Jun 5 89	UCB	
? 58145	Euxoa	medialis	Big Creek Reserve	Monterey	J. Powell	Nov 18 90	UCB	
N 57479	Euxoa	messoria	Big Creek Reserve	Monterey	J. Powell	Sep 27 87	UCB	
N 58167	Euxoa	obeliscoides	Big Creek Reserve	Monterey	J. Powell	Aug 17 88	UCB	
? 58257	Euxoa	olivalis?	Big Creek Reserve	Monterey	J. Powell	Nov 18 90	UCB	
N 57715	Euxoa	olivia	Big Creek Reserve	Monterey	J. Powell	Nov 6 88	UCB	
? 57863	Euxoa	punctigera	Big Creek Reserve	Monterey	J. Powell	Aug 18 88	UCB	
? 57997	Euxoa	satis	Big Creek Reserve	Monterey	JAP, YFH	Jun 7 89	UCB	
? 57686	Euxoa	septentrionalis	Big Creek Reserve	Monterey	J. Powell	May 2 92	UCB	
? 57753	Euxoa	serricornis?	Big Creek Reserve	Monterey	J. Powell	Apr 28 90	UCB	
? 57874	Euxoa	stigmatalis	Big Creek Reserve	Monterey	J. Powell	Aug 2 92	UCB	
? 57735	Euxoa	terrena	Big Creek Reserve	Monterey	J. Powell	May 26 87	UCB	
? 57772	Euxoa	tocoyae	Big Creek Reserve	Monterey	J. Powell	May 26 87	UCB	

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Pheromone Search of 942 Monterey County Lepidoptera Species

?	57544	Euxoa	vetusta		Carmel	Monterey	Slevin	on Jul 3	
?	58337	Euxoa	wilsoni		Carmel	Monterey	Slevin	Jun 2 to Sep 25	
?	33107	Evippe	laudatella		Big Creek Reserve	Monterey	J. Powell	Apr 28 90	UCB
?	31849	Evaereta	thoraceniograella	M	Carmel	Monterey	A.H. Vachell	in June	USNM
?	33645	Exceptia	sisterina	M	Big Creek Reserve	Monterey	Hsu, Powell	Jun 5-8 89	UCB
?	33213	Exoteleia	californica		Big Creek Reserve	Monterey	Powell, Wagner	Jul 7 86	UCB
?	33219	Exoteleia	graphicella		6 mi W Greenfield	Monterey	J. Powell	May 3 75	UCB
?	57370	Feltia	evandalis	M	Salinas	Monterey	G.T. York	Oct 19 43	CNC
?	57341	Feltia	subterranea		Carmel	Monterey	F.P. Sala	not given	UCB
?	54771	Feralia	februalis		Big Creek Reserve	Monterey	B.Scaccia	Apr 26 93	UCB
?	34301	Filatima	demissae		Big Creek Reserve	Monterey	J. Powell	Dec 3-4 85	UCB
?	34321	Filatima	sp #1 RWH		Big Creek Reserve	Monterey			
?	34323	Filatima	sp #2 RWH		Big Creek Reserve	Monterey			
?	34324	Filatima	sp #3 RWH		Big Creek Reserve	Monterey			
?	34325	Filatima	sp #4 RWH		Big Creek Reserve	Monterey			
?	34318	Filatima	vaniae		King City	Monterey	J. Powell	May 3 74	UCB
?	54676	Fishia	evelina evelina	M	Big Creek Reserve	Monterey	J. Powell	Sep 27-29 87	UCB
?	49666	Furcula	scolopendrina?		Big Creek Reserve	Monterey	J. Powell	Aug 17 88	UCB
?	44351	Gabriola	dyari pruina	M	Carmel	Monterey	R.H. Leuschner	Apr 4 60	AMNH
?	53922	Galgula	partia		Big Creek Reserve	Monterey	J. Powell	Apr 27 90	UCB
N	40115	Galleria	melonella		Big Creek Reserve	Monterey	J.A. Powell	Sep 3 91	UCB
?	33438	Gelechia	bianulella		Big Creek Reserve	Monterey	J. Powell	Jan 24-26 88	UCB
?	33445	Gelechia	desiliens		Big Creek Reserve	Monterey	J. Powell	Apr 29 90	UCB
?	33458	Gelechia	monella		Big Creek Reserve	Monterey	J. Powell	Oct 3 91	UCB
?	33439	Gelechia	new sp nr bianulella (Toxicodendron)		Big Creek Reserve	Monterey	Powell, Hsu	Apr 12 90	UCB
?	33468	Gelechia	panella		Big Creek Reserve	Monterey	J. Powell	Jun 14 91	UCB
?	35331	Givira	marga		Big Creek Reserve	Monterey	J. Powell	Aug 2 92	UCB
?	49622	Gluphisia	severa		Carmel River	Monterey	R.H. Leuschner	Mar 31 79	RHL
?	32451	Glyphidocera	septentrionella		Ft Ord, South Rd	Monterey	Powell, Opler	Jul 15 76	UCB
?	34543	Glyphipterix	bifasciata		Big Creek Reserve	Monterey	J. Powell	Jun 5 82	UCB
?	34576	Glyphipterix	montisella group		Big Creek Reserve	Monterey	J. Powell	Oct 3 91	UCB
?	34557	Glyphipterix	unifasciata	M	Monterey	Monterey	P.A. Rude	May 23 64	UCB
?	49788	Gnophaela	latipennis		Big Creek Reserve	Monterey	J. Powell	Jun 5 82	UCB
?	33491	Gnorimoschema	baccharisella	F	Big Creek Reserve	Monterey	J. Powell	Jun 7 93	UCB
?	33503	Gnorimoschema	coquilletella		Big Creek Reserve	Monterey	J. Powell	Apr 28 90	
?	33508	Gnorimoschema	crypticum	M	Big Creek Reserve	Monterey	J. Powell	Mar 1 89	UCB
?	33513	Gnorimoschema	ericameriae	M	Seaside	Monterey	H.H. Keifer	Jun 1 36	CAS
?	33526	Gnorimoschema	saphirinella		Big Creek Reserve	Monterey	J. Powell	Oct 3 85	UCB
N	36681	Grapholita	caeruleana		Big Creek Reserve	Monterey	J. Powell	Apr 12 90	UCB
N	36717	Grapholita	conversana		Monterey	Monterey	Stevens, Sartwell, Koel	1977-78	CoSU or UCB
?	36756	Grapholita	edwardsiana		nr Marina	Monterey	D.L. Wagner	Jan 2 84	UCConn
?	36734	Grapholita	imitativa		Marina Dunes	Monterey	R.L. Langston	Mar 27 87	CAS
N	36744	Grapholita	lunatana?		Big Creek Reserve	Monterey	J. Powell	May 5 91	UCB

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Pheromone Search of 942 Monterey County Lepidoptera Species

?	36774	Grapholita	new sp		Arroyo Seco	Monterey	J.Powell			
N	36667	Grapholita	prunivora		Big Creek Reserve	Monterey	J.Powell	Jun 5 90		UCB
?	36701	Grapholita	vitrana		King City	Monterey	J.Powell	May 3 74		UCB
?	30189	Greya	obscura		1 mi S Jamesburg	Monterey	Powell, Chemsak, Sz	May 5 75		UCB
?	30224	Greya	polifella		Big Creek Reserve	Monterey	J. Powell	Apr 28 90		UCB
?	30204	Greya	solenobiella		Arroyo Seco	Monterey	D. Burdick	Apr 15 58		UCB
?	41815	Habrosyne	scripta		Big Creek Reserve	Monterey	J.A. Powell	Jun 5 92		UCB
?	34451	Helystogramma	badium		Big Creek Reserve	Monterey	J. Powell	Jul 22 92		UCB
?	59244	Helicoverpa	zea		Big Creek Reserve	Monterey	J.Powell	Oct 3 85		UCB
N	59290	Heliothis	phloxiphaga		Big Creek Reserve	Monterey	J.Powell	Jul 7 92		UCB
?	59208	Heliothodes	diminutiva		Marina Dunes	Monterey	R.L.Langston	Apr 24 87		CAS
?	41708	Hellinsia	fieldi		Big Creek Reserve	Monterey	J.A. Powell	Apr 29 90		UCB
?	41741	Hellinsia	grandis		Big Creek Reserve	Monterey	J.A. Powell	Dec 17 93		UCB
?	41729	Hellinsia	new sp nr phoebus		Big Creek Reserve	Monterey	J.A. Powell	Jun 7 89		UCB
?	41727	Hellinsia	phoebus		Big Creek Reserve	Monterey	J.A. Powell	Jun 6 89		UCB
?	41762	Hellinsia	serenus		nr King City	Monterey	M.L. Walton	Jun 12 37		LACM
?	41756	Hellinsia	sulphureodactylus		Big Creek Reserve	Monterey	J.A. Powell	Feb 28 89		UCB
?	38366	Hellula	rogatalis		Salinas	Monterey	J. Powell	Aug 30 59		UCB
N	49323	Hemaris	diffinis		5 mi E Lucia	Monterey	R.L. Langston	Aug 6 56		RLI
?	49338	Hemaris	senta		Big Creek Reserve	Monterey	J.Powell	Jun 6 90		UCB
?	50775	Hemeroplanis	finitima		W Soledad	Monterey	R.M.Brown	Jun 14 97		RMB
?	58466	Hemieuxoa	rudens		Big Creek Reserve	Monterey	J.Powell	Oct 3 91		UCB
?	50306	Hemihyalea	edwardsii		Big Creek Reserve	Monterey	J.Powell	Oct 29 89		UCB
?	39923	Hemiplatyles	prosenes		Carmel	Monterey	F. Sala	Sep 1 91		LACM
?	44327	Hemnychia	baueri		Carmel	Monterey	R.H. Leuschner	Jun 25 69		RHL
?	37858	Henricus	contrastanus		Arroyo Seco	Monterey	E.C. Johnston	May 17 39		UCB
?	37852	Henricus	fuscodosanus		Big Creek Reserve	Monterey	J.Powell	May 26 87		UCB
?	37843	Henricus	macrocarpanus		Pt Lobos	Monterey	J.Powell	Oct 6 86		UCB
?	37869	Henricus	umbrahasanus		Big Creek Reserve	Monterey	J.Powell	Oct 5 91		UCB
N	29942	Hepialus	californicus		Big Creek Reserve	Monterey	Y.F. Hsu	Mar 21 89		UCB
?	29961	Hepialus	hectoides		Big Creek Reserve	Monterey	B.Scaccia	May 28 92		UCB
?	42772	Hesperumia	latipennis		Big Creek Reserve	Monterey	J.Powell	May 26 87		UCB
?	42698	Hesperumia	sulphuraria		Nacimiento Cmpgrnd	Monterey	R.M. Brown	May 29 82		RMB
?	40879	Heterographis	morrisonella		Big Creek Reserve	Monterey	J.A. Powell	Jun 14 91		UCB
?	32246	Hoffmannophila	pseudospretella		Big Creek Reserve	Monterey	J. DeBenedictis	Jul 7 86		UCB
?	32466	Holcocera	gigantella		4 rd mi S Big Sur	Monterey	J. Powell	Oct 4 84		UCB
?	40950	Homoeosoma	electellum		Big Creek Reserve	Monterey	J.A. Powell	Jun 7 89		UCB
?	54440	Homoglaea	californica		Carmel	Monterey	R.H. Leuschner	Dec 31 62		RHL
?	54471	Homoglaea	carbonaria		Carmel	Monterey	R.H. Leuschner	Dec 31 62		RHL
?	54455	Homoglaea	dives		Big Cr Reserve	Monterey	J. Powell	em Sep 30 87		UCB
?	56873	Homorthodes	communis		Big Creek Reserve	Monterey	J.Powell	Aug 17 88		UCB
?	56912	Homorthodes	discreta		Big Creek Reserve	Monterey	J. Powell	Sep 3-5 91		UCB
?	56898	Homorthodes	fractura mecona		Big Creek Reserve	Monterey	J.Powell	Apr 23 87		UCB

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Pheromone Search of 942 Monterey County Lepidoptera Species

?	56932	Homorthodes	hanhami semicarnea		Big Creek Reserve	Monterey	B.Scaccia	May 28 92	UCB
?	30616	Homosetia	margini-maculella	M	Carmel	Monterey	J.F. Lawrence	May 15 60	
?	40921	Honora	dotella		Big Creek Reserve	Monterey	J.A. Powell	Jun 6 89	UCB
?	40934	Honora	montinatatella?		Big Creek Reserve	Monterey	Hsu, Powell	Jun 5-8 89	UCB
?	47609	Horisme	incana or nr		Big Creek Reserve	Monterey	J.A. Powell	Oct 30 89	UCB
?	40900	Hulstia	undulaterlia		Big Creek Reserve	Monterey	J.A. Powell	Apr 27 90	UCB
?	43066	Hulstina	grossbecki		Arroyo Seco	Monterey	J. Donahue	May 26-28 78	LACM
?	43087	Hulstina	wrighttaria		W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
?	49028	Hyalophora	euryalus		Carmel	Monterey	J.Osterhaus	Jun 27 97	
?	46573	Hydriomena	albifasciata albifasciata		Big Creek Reserve	Monterey	J.A. Powell	Mar 26 87	UCB
?	46488	Hydriomena	crokeri comstocki		Carmel, High Mdw	Monterey	F.P. Sala	Jan 9 99	LACM
?	46381	Hydriomena	edenata edenata		Big Creek Reserve	Monterey	J.A. Powell	Feb 22 88	UCB
?	46397	Hydriomena	edenata prasinata		Carmel	Monterey	R.H. Leuschner	Apr 4 60	RHL
?	46519	Hydriomena	feminata		Carmel	Monterey	R.H. Leuschner	Feb 6 2000	RHL
N	46536	Hydriomena	furcata		Big Creek Reserve	Monterey	Hsu, Powell	Jun 5-8 89	UCB
N	46539	Hydriomena	furcata		Big Creek Reserve	Monterey	J.A. Powell	Oct 3 85	UCB
?	46432	Hydriomena	johnstoni		Big Cr Preserve	Monterey	J.A. Powell	Mar 1 95	UCB
?	46648	Hydriomena	manzanita		Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB
?	46616	Hydriomena	nubiofasciata		Big Sur	Monterey	R.M. Brown	Apr 2 78	RMB
?	46555	Hydriomena	quinquefasciata		Big Creek Reserve	Monterey	J.A. Powell	Jun 5 92	UCB
?	49457	Hyles	lineata		Carmel, High Mdw	Monterey	F.P. Sala	Jul 31 99	LACM
?	50729	Hypena	californica		Big Creek Reserve	Monterey	J.Powell	Sep 3 91	UCB
?	50743	Hypena	decorata		Big Creek Reserve	Monterey	F.Arias	Mar 16 90	UCB
?	50750	Hypena	modesta		Big Creek Reserve	Monterey	J.Powell	Feb 21 88	UCB
?	30682	Hypoplesia	dietziella		High Mdw, Carmel	Monterey	F. Salas	Jun 9 99	LACM
?	37914	Hysterosia	fulviplicana		Big Creek Reserve	Monterey	J. Powell	Jul 2 92	UCB
?	45833	Idaea	bonifata		Big Creek Reserve	Monterey	J.Powell	May 13 92	UCB
?	45851	Idaea	dennissaria columbia?		W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
?	45869	Idaea	occidentaria		Big Creek Reserve	Monterey	J.A. Powell	Aug 2 93	UCB
N	50552	Idia	amercialis		Arroyo Seco Rd	Monterey	R.M. Brown	Jun 14 97	RMB
?	50575	Idia	occidentalis		Big Creek Reserve	Monterey	J.Powell	Jul 6 92	UCB
?	43257	Iridopsis	clivnaria clivnaria		Big Creek Reserve	Monterey	J.Powell	Aug 18 88	UCB
?	43274	Iridopsis	clivnaria implea		Nacimiento Cmpgnd	Monterey	R.M. Brown	Apr 10 80	RMB
?	43305	Iridopsis	fragilaria		Big Creek Reserve	Monterey	B. Scaccia	May 12 92	UCB
?	43285	Iridopsis	sancitissima		Big Creek Reserve	Monterey	B. Scaccia	Jun 27 92	UCB
?	32984	Isophrictis	sp nr magnella		Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB
N	33677	Keiferia	lycoopersicella		Big Creek Reserve	Monterey	R.M. Brown	Apr 11 70	RMB
?	50125	Kodiosoma	fulvum		Jamesburg	Monterey	H.H. Keifer	Jun 1 36	UCD
?	55931	Lacinipolia	acutipennis		Arroyo Seco CG	Monterey	B. Villegas	Apr 30 75	UCD
?	55988	Lacinipolia	circumcincta		Big Creek Reserve	Monterey	J. Powell	Aug 17 88	UCB
?	55879	Lacinipolia	cuneata		Big Sur	Monterey	J. Powell	Oct 5 86	UCB
?	56115	Lacinipolia	patalis patalis		Carmel	Monterey	R.H. Leuschner	May 29 69	RHL
?					Carmel	Monterey	R.H. Leuschner	Apr 4 60	RHL

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Pheromone Search of 942 Monterey County Lepidoptera Species

?	56090	Lacinipolia	quadrilineata		Carmel	Monterey	R.H. Leuschner	Apr 4 60	RHL
?	55978	Lacinipolia	stricta cinnabarina		Big Creek Reserve	Monterey	J. Powell	Oct 3 85	UCB
?	41052	Laetilia	zamacrella	F	Big Creek Reserve	Monterey	J.A. Powell	Oct 24 91	UCB
?	30161	Lanpronia	nr oregonella	F	Big Creek Reserve	Monterey			
?	55281	Lepipolys	perscripta		Big Cr Reserve	Monterey	Powell, Prentice	Feb 28 89	UCB
?	49894	Leptarcia	californiae		S Big Sur	Monterey	R.L. Langston	Apr 9 68	RLL
?	56245	Leucania	farcta		Big Creek Reserve	Monterey	J.Powell	Sep 27 87	UCB
?	33229	Leucogniella	californica		Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	30931	Lindera	tessellatella		Salinas	Monterey	not given	Dec 2 32	
?	39318	Lineodes	integra		Big Creek Reserve	Monterey	J. Powell	Jan 25 88	UCB
?	41571	Liophilodes	parvus		Comcob Cyn	Monterey	J. Donahue	Jul 29 90	LACM
?	40776	Lipographis	fenestrella		Asilomar	Monterey	G.I. Stage	May 17 59	UCB
?	33365	Lita	recens		Big Creek Reserve	Monterey	J. Powell	Oct 3-5 85	UCB
?	33384	Lita	sironae		Big Creek Reserve	Monterey	J. Powell	Oct 3 85	UCB
?	34964	Lithariapteryx	abroniaeella		Marina Dunes	Monterey	R.L. Langston	Jul 20 87	CAS
?	34985	Lithariapteryx	elegans	F	Fort Ord coastal dunes	Monterey	J. Powell	May 18 77	UCB
?	54513	Lithophane	contenta		Big Creek Reserve	Monterey	B.Scaccia	Apr 26 93	UCB
?	54533	Lithophane	perforata		Carmel	Monterey	R.H. Leuschner	Dec 30 62	RHL
?	54578	Lithophane	vanduzeei	M	Carmel	Monterey	R.H. Leuschner	Apr 4 65	RHL
?	54545	Lithophane	verfina		Big Creek Reserve	Monterey	J. Powell	Feb 21-22 88	UCB
?	50246	Lophocampa	argentata argentata		Carmel Valley	Monterey	B.Walsh	Sep 27 73	
?	50272	Lophocampa	maculata		Salinas	Monterey	R.L. Langston	Jun 13 78	CAS
?	50257	Lophocampa	sobrina		High Meadow, Carmel	Monterey	F. Sala	Jul 19 99	LACM
?	34482	Lotisma	trigona		Big Creek Reserve	Monterey	J. Powell	May 27 87	UCB
?	49856	Lycomorpha	grotei		Big Creek Reserve	Monterey	J.Brown, JAP	Oct 4 85	UCB
?	39527	Lygropia	oconalis		9 mi E King City	Monterey	C.W. OBrien	Apr 1 59	UCB
?	50522	Lymantria	dispar		Monterey, Bergin Dr	Monterey	T. Cotenass	Aug 13 96	
?	31002	Lyonetia	candida		Big Creek Reserve	Monterey	Powell, Scaccia	May 12-13 92	UCB
?	31006	Lyonetia	specuella		Big Creek Reserve	Monterey			
?	42040	Macaria	guenearia		21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
?	42147	Macaria	lorquinaria		Big Sur	Monterey	R.M. & M.A.Brown	May 27 82	RMB
?	42117	Macaria	marcescaria		Big Sur	Monterey	R.M. & M.A.Brown	May 27 82	RMB
?	41957	Macaria	quadrilinearia		Salinas	Monterey	M.L. Walton	Jun 12 37	LACM
?	41985	Macaria	semivolata		Salinas Riv/King City	Monterey	M.L. Walton	Jun 12 37	LACM
N	48806	Malacosoma	californicum californicum		Big Creek Reserve	Monterey	JAP, YFH, DM	Jun 15 91	UCB
?	48772	Malacosoma	constrictum constrictum	M	Arroyo Seco	Monterey	J. Donahue	May 26-28 78	LACM
?	49092	Manduca	quinquemaculata		Big Creek Reserve	Monterey	J.Powell	Aug 17 88	UCB
?	31343	Marmara	arbutifella		Big Creek Reserve	Monterey	J. Powell	Jan 26 88	UCB
?	39397	Mecyna	mustelinalis		21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
?	51801	Megalographa	bioba		Big Creek Reserve	Monterey	J.Powell	May 27 87	UCB
?	51972	Meganola	fuscula		Big Creek Reserve	Monterey	J.Powell	Mar 27 87	UCB
?	43373	Melanolophia	imitata		2 mi S Big Sur	Monterey	R.M. Brown	May 7 76	RMB
?	50942	Melipotis	indomita		Big Creek Reserve	Monterey	J.Powell	Jun 6 92	UCB

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? 54592	Mesogona	olivata	Big Creek Reserve	Monterey	J.Powell	Sep 28 87	UCB
? 54611	Mesogona	subcuprea?	Big Creek Reserve	Monterey	J.Powell	Oct 29 89	UCB
? 46840	Mesoleuca	gratulata	9 mi SE Big Sur	Monterey	R.M. Brown	Apr 8 80	RMB
? 50799	Metactetra	bigallis	Big Creek Reserve	Monterey	J.Powell	Sep 3 91	UCB
? 35409	Miacora	perplexa	Big Creek Reserve	Monterey	J.Powell	Sep 15 93	UCB
? 53721	Micrathetis	triplez	Big Creek Reserve	Monterey	J.Powell	Apr 27 90	UCB
? 30049	Microcalpytris	lotella	Big Creek Reserve	Monterey	Y. Hsu	Jun 7 93	UCB
? 39776	Microcrambus	copelandi	Big Creek Reserve	Monterey	J.Powell	Aug 2 92	UCB
? 38183	Microtheoris	opionalis occidentalis	Big Creek Reserve	Monterey	J.Powell	Aug 25 89	UCB
? 31294	Micrurapteryx	salicifoliella	Big Creek Reserve	Monterey	J.Powell	Sep 5 91	UCB
? 39430	Mimorista	subcostalis	21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
? 57134	Miodera	stigmata	Big Creek Reserve	Monterey	J.Powell	Oct 29-32 89	UCB
? 32641	Mompha	franclemonti	Big Creek Reserve	Monterey	Powell, Hsu	Mar 21-23 89	UCB
? 32645	Mompha	new sp. nr powelli	Big Creek Pres.	Monterey			
? 33002	Monochroa	harrisonella	Big Creek Reserve	Monterey	J.Powell	May 5 91	UCB
? 30905	Monopsis	mycetopiella	Big Creek Reserve	Monterey	J.Powell	Mar 28 87	UCB
? 30640	Morophagoides	berkeleyella	Big Creek Reserve	Monterey	J.Powell	May 23 92	UCB
? 30648	Morophagoides	burkerella	Big Creek Reserve	Monterey	J.Powell	May 27 87	UCB
? 30657	Morophagoides	gracilis	Big Creek Reserve	Monterey	J.Powell	Dec 17 93	UCB
? 40279	Myelopsis	alabella	Big Creek Reserve	Monterey	J.A. Powell	May 1 92	UCB
? 49556	Nadata	gibbosa	Big Creek Reserve	Monterey	BS, RZ	Jun 24 92	UCB
? 48435	Nasusina	inferior	Big Sur	Monterey	R.M. Brown	Apr 7 80	RMB
? 48469	Nasusina	mendicata	Big Creek Reserve	Monterey	J.A. Powell	Apr 27 90	UCB
? 48453	Nasusina	vaporata	Big Sur	Monterey	R.M. Brown	May 8 76	RMB
? 30564	Nemapogon	defectella	Big Creek Reserve	Monterey	J.Powell	Sep 4 91	UCB
? 30572	Nemapogon	geniculatella?	Big Creek Reserve	Monterey			
? 30579	Nemapogon	granella	Big Creek Reserve	Monterey	J.Powell	Oct 30 89	UCB
? 30595	Nemapogon	molybdanella	Big Creek Reserve	Monterey	J.Powell	Apr 13 85	UCB
? 45511	Nemoria	darwinata darwinata	Big Creek Reserve	Monterey	J.A. Powell	Jun 5 89	UCB
? 45539	Nemoria	darwinata punctularia	Big Sur	Monterey	R.M. & M.A. Brown	May 27 82	RMB
? 45614	Nemoria	glaucomargarinaria	Nacimiento River Cmpg	Monterey	R.M. Brown	Apr 10 80	RMB
? 45578	Nemoria	leptalea	Big Creek Reserve	Monterey	J.A. Powell	Nov 6 88	UCB
? 45488	Nemoria	pistaciaria	Big Creek Reserve	Monterey	JAP. JWB	Jul 7 86	UCB
? 45459	Nemoria	pulcherrima	Big Creek Reserve	Monterey	J.A. Powell	Feb 21 88	UCB
? 42794	Nealcis	californiaria	Big Creek Reserve	Monterey	J.Powell	Mar 23 89	UCB
? 29903	Neocrania	bifasciata	Big Creek Reserve	Monterey	Powell, Hsu	Apr 12 90	UCB
? 54895	Neogalea	esula	Arroyo Seco	Monterey	C.I. Smith	em Aug 28 40	UCB
? 53007	Neoligia	tonsa tonsa	Big Creek Reserve	Monterey	J.Powell	Oct 3 91	UCB
? 44605	Neoterpes	edwardsata	Big Creek Reserve	Monterey	J.Powell	May 4 91	UCB
? 44551	Neoterpes	ephellidaria	Big Sur	Monterey	R.M. & M.A. Brown	May 27 82	RMB
? 30006	Nepticula	variella	Fort Ord	Monterey	DSG	Mar 25 77	UCB
? 44680	Nepytia	umbrosaria nigrovenaria	Big Creek Reserve	Monterey	J.Powell	Oct 2 91	UCB
? 31313	Neurobathra	bohartiella	Fort Ord	Monterey	D.Green	Mar 25 77	UCB

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Pheromone Search of 942 Monterey County Lepidoptera Species

?	51991	Nola	minna	Carmel	Monterey	R.H. Leuschner	Feb 27 77	RHL
N	39465	Nomophila	nearctica	Big Creek Reserve	Monterey	J.DeBenedictis	Sep 28 87	UCD
?	41716	Oidaematophorus	confusus	Big Creek Reserve	Monterey	YFH & JAP	Mar 22 89	
?	41705	Oidaematophorus	gratiosus	Carmel	Monterey	R.H. Leuschner	Jun 25 69	RHL
Y	41658	Oidaematophorus	mathewianus? E11-14Ac	Big Creek Reserve	Monterey	JAP & YFH	Apr 13 90	UCB
?	41702	Oidaematophorus	meyricki	Carmel	Monterey	R.H. Leuschner	May 25 69	RHL
?	41720	Oidaematophorus	new sp nr confusus	Big Creek Reserve	Monterey	J.A. Powell	Apr 10 94	UCB
?	41687	Oidaematophorus	new sp nr griseoscens?	Big Creek Reserve	Monterey	YFH	Mar 23 89	UCB
?	41673	Oidaematophorus	phacellae?	Big Creek Reserve	Monterey	J.A. Powell	May 3 91	UCB
?	30954	Oinophila	v-flavum	Big Creek Reserve	Monterey	J. Powell	Dec 17 93	UCB
N	53042	Oligia	mactata	Big Creek Reserve	Monterey	J. Powell	Aug 17 88	UCB
?	52977	Oligia	marina	Big Creek Reserve	Monterey	J. Powell	Jun 14 91	UCB
?	52964	Oligia	new sp nr indirecta	Big Creek Reserve	Monterey	J. Powell	Aug 17 88	UCB
?	55224	Oncocnemis	astrigata	Big Cr Reserve	Monterey	Zuniga, Scaccia	Jun 23-24 92	UCB
?	55273	Oncocnemis	dunbari	Big Cr Reserve	Monterey	J. Powell	Sep 3-5 91	UCB
?	55202	Oncocnemis	ragani	Santa Lucia Mts	Monterey	J. Donahue	May 28 76	LACM
?	55154	Oncocnemis	umbrifascia	Big Cr Reserve	Monterey	J. Powell	Jul 6-8 92	UCB
?	55140	Oncocnemis	youngi	Big Cr Reserve	Monterey	J. Powell	Aug 17-19 88	UCB
?	47597	Operophtera	danybi	Prunedale	Monterey	R.H. Leuschner	Jan 1 71	RHL
?	30942	Opogona	omoscopa	Carmel	Monterey	R.H. Leuschner	Dec 30 86	RHL
?	30949	Opogona	saccharae	Carmel	Monterey	R.H. Leuschner	Apr 29 93	RHL
?	30056	Opostega	sp 1 (unmarked white)	Big Creek	Monterey	Hsu, Powell	Apr 12-13 90	UCB
N	50499	Orygia	pseudosugata pseudosugata	1 ml N Moss Landing	Monterey	R.F. Denno	Jun 24 67	UCD
N	50441	Orygia	vetusta	Big Creek Reserve	Monterey	J. Powell	Jun 5 89	UCB
?	47472	Orthonama	centrostrigaria?	Big Creek Reserve	Monterey	J.A. Powell	Apr 24 87	UCB
?	47442	Orthonama	obstipata	Big Sur	Monterey	R.M. & M.A. Brown	May 27 82	RMB
?	56557	Orthosia	arthrolita	Big Creek Reserve	Monterey	J. Powell	Nov 6 88	UCB
?	56536	Orthosia	behrensiana	Big Creek Reserve	Monterey	J. Powell	Jan 24 88	UCB
?	56407	Orthosia	erythrolita	Big Creek Reserve	Monterey	J. Powell	Feb 28 89	UCB
?	56510	Orthosia	ferrigera	Big Creek Reserve	Monterey	J. Powell	Mar 1 89	UCB
N	56593	Orthosia	hibisci	Carmel Valley	Monterey	R.L. Langston	Dec 13 90	CAS
?	56493	Orthosia	mys mys	Big Creek Reserve	Monterey	J. Powell	Nov 6 88	UCB
?	56577	Orthosia	pacifica	Big Creek Reserve	Monterey	J. Powell	Apr 12 85	UCB
?	56474	Orthosia	praeses	Big Creek Reserve	Monterey	J. Powell	Feb 21 88	UCB
?	56431	Orthosia	pulchella	Big Creek Reserve	Monterey	JAP. YFH	Feb 22 88	UCB
?	56524	Orthosia	terminata	Hastings Reserve	Monterey	J. Powell	Mar 25 98	UCB
?	56452	Orthosia	transparens	Big Creek Reserve	Monterey	J. Powell	Apr 21 93	UCB
?	43509	Palaearctia	longiciliata	Big Creek Reserve	Monterey	B.S.	Mar 13 93	UCB
?	52363	Panthea	portlandia?	Big Creek Reserve	Monterey	JAP, YFH	Jun 14 91	UCB
?	53135	Papaipema	sauzalilae	Big Creek Reserve	Monterey	J. Powell	Sep 27 87	UCB
?	59071	Parabagrotis	exertistigma	Big Creek Reserve	Monterey	J. Powell	Aug 17 88	UCB
?	59102	Parabagrotis	formalis	Big Creek Reserve	Monterey	J. Powell	Oct 3 91	UCB
?	41588	Paraplatyptilia	albiciliata rubricans	Pt Lobos	Monterey			UCB

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Pheromone Search of 942 Monterey County Lepidoptera Species

?	41001	Patagonia	peregrina	F	Redwood Camp Trail	Monterey	J.A. Powell	May 26-28 87	UCB
?	35995	Pelochrista	expolitana?		Big Creek Preserve	Monterey			
?	35993	Pelochrista	new sp nr palpana?		Big Creek Preserve	Monterey			
?	36002	Pelochrista	passerana	M	Bixby Cyn	Monterey	J.W. Tilden	Aug 1 48	UCB
?	35229	Penstemonia	clarkei		Big Creek Reserve	Monterey	J. Powell	Aug 6 93	UCB
N	58501	Peridroma	saucia		Big Creek Reserve	Monterey	J. Powell	Oct 30 89	UCB
?	56322	Perigonia	angulata		Big Creek Reserve	Monterey	B.Scaccia	Jun 6 92	UCB
?	56342	Perigonia	pectinata		Big Creek Reserve	Monterey	J. Powell	Apr 23 87	UCB
?	32817	Periploca	ceanothiella		Big Creek Reserve	Monterey	J. Powell	May 5 91	UCB
?	32330	Peritia	passula	M	17.5 mi W Jolon	Monterey	P.A. Opler	Mar 19 69	UCB
?	46938	Perizoma	costiguttata		Big Sur	Monterey	R.M. & M.A. Brown	May 27 82	RMB
?	46923	Perizoma	curvilinea curvilinea		Carmel	Monterey	R.H. Leuschner	Apr 4 60	RHL
?	46964	Perizoma	custodiata		Moss Landing	Monterey	R.M. Brown	Apr 11 70	RMB
?	44160	Pero	macdunnoughi	M	Monterey	Monterey	K. Richers	Apr 2 96	KMR
?	44130	Pero	mizon		Arroyo Seco	Monterey	D. Burdick	Jun 1 57	UCB
?	44111	Pero	morrisonaria		Salinas	Monterey	not given	Oct 1 65	UCD
?	44230	Pero	occidentalis		Nacimiento Cmpgrnd	Monterey	R.M. & M.A. Brown	May 29 82	RMB
?	44249	Pero	occidentalis packardi		White Oaks CG	Monterey	A.H. Porter	Apr 27 85	UCD
?	44096	Pero	radiosaria		21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
?	38159	Petrophila	confusalis		21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
?	38132	Petrophila	ialiscalis		Big Sur	Monterey	J. Arnold	Jun 2 59	UCB
?	35641	Phaneta	amphorana		Marina Dunes	Monterey	R.L. Langston	Feb 19 87	CAS
?	35656	Phaneta	apacheana		Big Creek Reserve	Monterey	YFH	Jun 15 91	UCB
?	35684	Phaneta	argenticostana		SW Arroyo Seco G Sta	Monterey	J. Powell	May 5 75	UCB
?	35718	Phaneta	artemisia		Bixby Cyn	Monterey	J.W. Tilden	Aug 20 48	UCB
?	35672	Phaneta	mistrana	F	9 mi E King City	Monterey	C.W. O'Brien	Jun 1 59	UCB
?	35699	Phaneta	pallidarcis	M	Fort Ord, South Rd	Monterey	JAP, Opler	Jul 15 76	UCB
?	35730	Phaneta	scalana	M	Bixby Cyn	Monterey	J.W. Tilden	Jul 19 48	UCB
?	35688	Phaneta	striatana occidentalis	M	Fort Ord, South Rd	Monterey	JAP, Opler	Jul 15 76	UCB
?	35706	Phaneta	subminimana	M	Bixby Cyn	Monterey	J.W. Tilden	Aug 13 48	UCB
?	49598	Pheosia	rimosa		Big Creek Reserve	Monterey	J. Powell	Jul 7 92	UCB
?	44996	Pherne	parallela		Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB
?	44974	Pherne	placeraria?		Big Creek Reserve	Monterey	J. Powell	Aug 18 88	UCB
?	45023	Pherne	subpunctata subpunctata		Big Creek Reserve	Monterey	J. Powell	Feb 21 88	UCB
?	43472	Phigalia	plumogeraria		Big Creek Reserve	Monterey	J. Powell	Feb 21 88	UCB
?	44443	Philledia	punctomacularia		Big Creek Reserve	Monterey	J. Powell	Jun 8 89	UCB
?	44452	Philledia	punctomacularia connecta		Carmel	Monterey	L.S. Slevin	on Nov 5	
?	50674	Phobolosa	anfracta		Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	40546	Phobus	brucei		Big Creek Reserve	Monterey	J.A. Powell	Jun 8 93	UCB
?	40566	Phobus	curvatellus		Big Creek Reserve	Monterey	J.A. Powell	Sep 4 91	UCB
?	40554	Phobus	funerellus		Big Creek Reserve	Monterey	JAP, YFH	Jun 5 92	UCB
?	30677	Phryganeopsis	brunnea		Big Creek Reserve	Monterey	RZ	Jul 21 92	UCB
?	49760	Phryganidia	californica		Salinas	Monterey	R.L. Langston	Jun 12 81	RLL

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Pheromone Search of 942 Monterey County Lepidoptera Species

?	37922	Phthoechroa	aegrana		Big Creek Reserve	Monterey	Powell, Hsu	Jun 5 89	UCB
N	33546	Phthorimaea	operculella		nr Castroville	Monterey	not given	in Oct 59	UCB
?	41019	Phycitodes	muclidella		Big Creek Reserve	Monterey	J.A. Powell	Apr 24 87	UCB
?	31702	Phyllocnistis	populiella?		Big Creek Reserve	Monterey	D.L. Wagner	Oct 4 85	UConn
?	48684	Phyllodesma	americana californica	M	White Oaks CG	Monterey	A.H. Porter	Apr 27 85	UCD
?	48715	Phyllodesma	coturnix coturnix		Big Creek Reserve	Monterey	J.Powell	Feb 21 88	UCB
?	31379	Phyllonorycter	apicingrella		Big Creek Reserve	Monterey	J. Powell	Oct 2 91	
?	31383	Phyllonorycter	arbutusella		Big Creek Reserve	Monterey	Hsu, Powell	Apr 12-13 90	UCB
?	31406	Phyllonorycter	felinella		Big Creek Reserve	Monterey	J. Powell	Oct 30 89	UCB
?	31431	Phyllonorycter	holodisci		Big Creek Reserve	Monterey	D.L. Wagner	Oct 4 85	UConn
?	31438	Phyllonorycter	incanella		Big Creek Reserve	Monterey	D.L. Wagner	Jul 7 86	UConn
?	31449	Phyllonorycter	inustatella		8 mi S Jamesburg	Monterey	D.L. Wagner	May 15 83	UConn
?	31474	Phyllonorycter	manzanita		Jack's Pk Regional Park	Monterey	D.L. Wagner	Mar 11 84	UConn
?	31482	Phyllonorycter	memorabilis		Big Creek Reserve	Monterey	J. Powell	Apr 22 93	UCB
?	31502	Phyllonorycter	ribefoliae		Big Creek Reserve	Monterey	D.L. Wagner	Oct 4 85	UConn
?	31511	Phyllonorycter	sandraella		Carmel	Monterey	L.S. Stevin	Oct 2 27	
?	40405	Pima	albocostallialis albocostallialis		Big Creek Reserve	Monterey	J.A. Powell	May 26 87	UCB
?	44858	Plataea	californiaria	F	Monterey	Monterey	not given	Jul 15 28	LACM
?	44830	Plataea	personaria		Big Sur	Monterey	R.M. & M.A. Brown	May 27 82	RMB
?	54698	Platypolia	contadina		Big Creek Reserve	Monterey	J.Powell	Oct 29 89	UCB
?	41501	Platypolia	carduidactylia		Big Creek Reserve	Monterey	J.A. Powell	Mar 26 87	UCB
?	41520	Platypolia	williamsii		Big Creek Reserve	Monterey	F. Arias	Apr 17 92	UCB
?	53943	Platysenta	alboblaves		Big Creek Reserve	Monterey	J. Powell	May 1-3 92	UCB
?	54822	Pleromella	opter		Big Creek Reserve	Monterey	J.Powell	May 12 92	UCB
?	54866	Pleromelloida	bonuscula		Carmel	Monterey	R.H. Leuschner	Jan 1 71	RHL
?	54879	Pleromelloida	cinerea		Carmel Valley	Monterey	R.L. Langston	Dec 13 90	CAS
?	54846	Pleromelloida	consenta		Hastings Reserve	Monterey	J. Powell	Mar 9-10 2000	UCB
?	54858	Pleromelloida	obliquata smithi		Big Creek Reserve	Monterey	Powell, Prentice	Feb 28 89	UCB
?	32273	Pleurota	albastrigulella		Big Creek Reserve	Monterey	J. Powell	Apr 24 87	UCB
N	34699	Plutella	xylostella		Big Creek Reserve	Monterey	Y.F. Hsu	Jun 7 89	UCB
?	55759	Polia	delecta		Big Creek Reserve	Monterey	J. Powell	Apr 23-25 87	UCB
?	55753	Polia	noverca		Hastings Res	Monterey	J. Powell	May 3 58	UCB
?	32217	Polix	coloradella		Big Creek Reserve	Monterey	J. Powell	May 4 91	UCB
?	35377	Prionoxystus	robiniae	M	Arroyo Seco Camp	Monterey	R.W. Brooks	May 15 76	UCD
?	45221	Prochoerodes	forficaria catenulata		Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB
?	45181	Prochoerodes	truxaliata		21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
?	30301	Prodoxus	aenescens		Arroyo Seco	Monterey	J. Powell	Oct 7 67	UCB
?	30277	Prodoxus	marginatus		4 mi S Big Sur	Monterey	J. Powell	Oct 5 85	UCB
?	53559	Properigea	albimacula		Big Creek Reserve	Monterey	J. Powell	Sep 3 91	UCB
?	53600	Properigea	niveirena		Big Creek Reserve	Monterey	Hsu, Powell	Jun 14-16 91	UCB
?	48491	Protella	emmedonia			Monterey	J. Doll		LACM
?	48512	Protella	melissa		Arroyo Seco Camp	Monterey	not given	May 15 73	UCD
?	48526	Protella	opinata		Nacimiento Cmpgmd	Monterey	R.M. Brown	May 29 82	RMB

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Pheromone Search of 942 Monterey County Lepidoptera Species

?	49414	Proserpinus	clarkiae	Big Creek Reserve	Monterey	J.Powell	Mar 27 87	UCB
?	36103	Proteoteras	aesculana	Big Creek Reserve	Monterey	J.Powell	Apr 12 90	UCB
?	53707	Protoperigea	posticata	Big Creek Reserve	Monterey	J.Powell	Oct 3 91	UCB
?	57011	Protrhodes	alkeni	Big Creek Reserve	Monterey	J.Powell	Sep 3 91	UCB
?	57048	Protrhodes	melanopsis melanopsis	Carmel	Monterey	F. Sala?	Mar 17 80	UCB
?	56984	Protrhodes	rufula	Big Creek Reserve	Monterey	J.Powell	Mar 22 89	UCB
?	53745	Proxenus	mindara	9 mi E King City	Monterey	C.W. O'Brien	Mar 29 59	UCB
?	56211	Pseudaletha	unipuncta	Big Creek Reserve	Monterey	J.Powell	Apr 24 87	UCB
?	51781	Pseudeva	palligera	Big Creek Reserve	Monterey	BS,RZ	Jun 24 92	UCB
?	36130	Pseudexentera	habrosana	Big Creek Reserve	Monterey	J.Powell	Feb 21 88	UCB
?	53624	Pseudobryomima	fatalax	Big Creek Reserve	Monterey	J.Powell	Apr 11 85	UCB
?	33279	Pseudochelaria	manzanitiae	Big Creek Reserve	Monterey	J.Powell	Apr 29 90	UCB
?	33295	Pseudochelaria	scabrella	Hastings Reserve	Monterey	J.Powell	May 3 58	UCB
?	57077	Pseudorthodes	irrorata	Big Creek Reserve	Monterey	Powell, Hsu	Jun 14 91	UCB
?	57089	Pseudorthodes	puerilis	Big Creek Reserve	Monterey	J.Powell	Mar 21 89	UCB
?	43194	Pterotaeta	albescens	Hastings Reserve	Monterey	J.Powell	Jun 9-10 2000	UCB
?	43116	Pterotaeta	lamtaria lamtaria	Salinas	Monterey	M. Christie	Sep 18 53	UCD
?	37594	Pycholoma	peritana	9 mi E King City	Monterey	O'Brien	Apr 1 59	UCB
?	37622	Pycholoma	virescana	Carmel	Monterey	A.H.Vachell	in Jun	
?	39963	Pyralis	cacamica?	Big Creek Reserve	Monterey	J.A. Powell	Sep 3 91	UCB
N	39938	Pyralis	farinalis	Chualar	Monterey	W.H. Lange	Jul 3 61	UCD
?	31913	Pyramidobela	angelarum	Carmel	Monterey	F. Sala	in Feb 99	RHL
?	38985	Pyrausta	dapalis	6 mi W Greenfield	Monterey	J. Powell	May 3 75	UCB
N	39159	Pyrausta	fodinalis	Big Creek Reserve	Monterey	J. Powell	Oct 3 91	UCB
?	38917	Pyrausta	grotei	Big Creek Reserve	Monterey	Hsu, Powell	Jun 5-8 89	UCB
?	39139	Pyrausta	laticlavia	Big Creek Reserve	Monterey	J. Powell	May 22 92	UCB
?	38870	Pyrausta	lethalis	Big Creek Reserve	Monterey	J. Powell	Apr 24 87	UCB
?	38836	Pyrausta	napaeealis	Big Creek Reserve	Monterey	JAP. YFH	May 12 92	UCB
?	38809	Pyrausta	nexalis	Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	39052	Pyrausta	perrubralls perrubralls	Big Creek Reserve	Monterey	JB. JAD	May 26 87	UCB
?	39090	Pyrausta	semirubralls	S Arroyo Seco Guard S	Monterey	J. Powell	May 7 75	UCB
?	39192	Pyrausta	socialis perpallidalis	Valley Greens	Monterey	F. Sala	Jun 12 98	LACM
?	39028	Pyrausta	subsequalis petaluma	9 mi NW Lucia	Monterey	J.A. Powell	Aug 28 61	CAS
?	39119	Pyrausta	unifascialis	Big Creek Reserve	Monterey	J. Powell	Jun 5 90	UCB
?	40502	Quasisalebria	occidentalis	Big Creek Reserve	Monterey	J.A. Powell	Aug 2 92	UCB
?	32147	Rectostoma	ferraldella	Big Creek Reserve	Monterey	J. Powell	May 3 91	UCB
?	33122	Recurvaria	ceanothiella	Big Creek Reserve	Monterey	D.L. Wagner	Apr 24 87	UConn
?	33133	Recurvaria	francisca	Big Creek Reserve	Monterey	Hsu, Powell	Apr 28 90	UCB
?	41102	Rhagea	stigmella	Big Creek Reserve	Monterey	J.A. Powell	May 3 91	UCB
N	35546	Rhyacionia	pasadenana	Carmel	Monterey	A.H.Vachell		
?	33418	Ritseria	fuscotaeniaella	Big Creek Reserve	Monterey	F.Arias	Oct 12 89	UCB
?	45241	Sabulodes	aegrotata	Big Sur	Monterey	R.M. Brown	Apr 2 78	RMB
?	45295	Sabulodes	spoliata lagunata?	Big Creek Reserve	Monterey	J. Powell	Apr 27 90	UCB

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?	45271	Sabulodes	spoliata spoliata		Pacific Grove	Monterey	R.H. Leuschner	Apr 4 60	LACM
?	37837	Saphenista	dilutana	M	Big Sur	Monterey	J.Powell	Oct 5 86	UCB
?	37888	Saphenista	latipunctana	F	Marina dunes at Ft Ord	Monterey	J.Powell	May 18 77	UCB
?	37940	Saphenista	nomonana		Carmel	Monterey			
?	37833	Saphenista	nr parvimaclulana		Big Creek Reserve	Monterey	J.Powell	Sep 27 87	UCB
?	37896	Saphenista	saxicolana	M	Big Creek Reserve	Monterey	YFH	Apr 27 90	UCB
N	59355	Schinia	sueta californica		Big Creek Reserve	Monterey	J.Powell	May 4 91	UCB
?	49711	Schizura	unicornis conspecta		Big Creek Reserve	Monterey	J.Powell	Sep 4 91	UCB
N	34954	Schreckensteinia	festaliella		Big Creek Reserve	Monterey	J. Powell	Jun 6 82	UCB
N	50817	Scoliopteryx	libatrix		Big Creek Reserve	Monterey	J.Powell	Jun 5 92	UCB
?	45972	Scopula	junctaria johnstonaria		Nacimiento River Cmpg	Monterey	R.M. & M.A.Brown	May 29 82	RMB
?	45950	Scopula	junctaria quinquelinearia		Big Sur	Monterey	R.M. & M.A.Brown	May 27 82	RMB
?	46000	Scopula	sideraria		Carmel Valley area	Monterey	not given	Apr 27 55	UCB
?	33635	Scrobipalpopis	interposita	M	Big Creek Reserve	Monterey	J. Powell	Oct 3-4 85	UCB
?	33633	Scrobipalpopis	madiae	M	Big Creek Reserve	Monterey	Hsu, Powell	em Jun 18 91	UCB
?	33578	Scrobipalpula	psitella		Big Creek Reserve	Monterey	J. Powell	Apr 10 89	UCB
?	33568	Scrobipalpopis	lutescella	M	Big Creek Reserve	Monterey	F.Arias	Oct 12 89	UCB
?	32928	Scythris	interrupta		Big Creek Reserve	Monterey	J. Powell	Apr 27 90	UCB
?	43560	Sericosema	lutumaria		21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
?	43637	Sericosema	simularia		Arroyo Seco	Monterey	J. Donahue	May 26-28 78	LACM
N	35054	Sesia	tibialis		Hastings Reseve	Monterey	not given	Jun 18 40	UCB
?	44726	Sicya	crocearia		Big Creek Reserve	Monterey	RZ, BS	Jul 21 92	UCB
N	44752	Sicya	macularia macularia		21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
?	44801	Sicya	moiscaria		Big Creek Reserve	Monterey	J. Powell	Jun 7 89	UCB
N	52567	Simyra	henrici		Big Sur	Monterey	J. Powell	Oct 5 86	UCB
?	44502	Slossonia	rubrotincta		21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
N	49235	Smerinthus	cerisyi		Carmel	Monterey	J.Osterhaus	May 15 96	
?	32909	Sorhagenia	nimbosa		Big Creek Reserve	Monterey	J. Powell	Jun 4 82	UCB
?	41306	Sosipatra	thurberiae		Big Creek Reserve	Monterey	J.A. Powell	Sep 4 91	UCB
N	58543	Spaelotis	clandestina		Big Creek Reserve	Monterey	J.Powell	Aug 2-4 92	UCB
?	46863	Spargania	magnoliata quadripunctata		Big Sur	Monterey	R.M. & M.A.Brown	May 27 82	RMB
?	37694	Sparganothis	senecionana		NE Arroyo Seco Grd St	Monterey	J.Powell	May 5 75	UCB
Y	37657	Sparganothis	tunicana		Bryson	Monterey	E.VanDuzee	May 19 20	UCB
?	49165	Sphinx	perelegens		Big Creek Reserve	Monterey	J.Powell	Apr 28 90	UCB
?	50033	Spilosoma	vagens		Big Creek Reserve	Monterey	J.Powell	Feb 21 88	UCB
?	49987	Spilosoma	vestalis		Big Creek Reserve	Monterey	J.Powell	Apr 27 90	UCB
Y	53832	Spodoptera	exigua		Big Creek Reserve	Monterey	J. Powell	Sep 28 87	UCB
N	53881	Spodoptera	praefica		Big Creek Reserve	Monterey	J. Powell	Jun 7 89	UCB
?	39508	Spoladea	recurvalis		Big Sur	Monterey	G.M. Prlain?	Sep 30 84	UCB
?	32683	Stagmatophora	iridella		Big Creek Reserve	Monterey	J. Powell	Oct 4 91	UCB
?	47109	Stannoctenis	pearsalli		Big Creek Reserve	Monterey	J.A. Powell	Nov 18 90	UCB
?	47127	Stannoctenis	ululata		Big Creek Reserve	Monterey	J.A. Powell	Oct 29 89	UCB
?	47011	Stannodes	affiliata		Big Creek Reserve	Monterey	J.A. Powell	Oct 30 89	UCB

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?	47053	Stammodes	coenonymphata	Arroyo Seco	Monterey	not given	Mar 18 35	LACM
?	47077	Stammodes	marinata	Big Creek Reserve	Monterey	R.Robertson	Feb 2 94	
?	47002	Stammodes	reckseckeri	Big Creek Reserve	Monterey	J. Powell	Oct 29-32 89	UCB
?	42859	Stenoporia	pulmonaria lita	Pacific Grove	Monterey	A.L.Melander	Jun 19 47	AMNH
?	44049	Stergamataea	delicata delicata	Big Creek Reserve	Monterey	J.Powell	Mar 27 89	UCB
?	29983	Stigmella	ceanothi	9 mi S Blg Sur	Monterey	D.L. Wagner	Mar 10 84	UConn
?	29991	Stigmella	diffasciae?	Big Creek Reserve	Monterey	Wagner, Powell	Oct 4 85	UConn
?	30037	Stigmella	heteromelis	Big Creek Reserve	Monterey	J. Powell	Oct 30 89	
?	32854	Stilbosis	dulcedo	Nacimiento Ranger Sta	Monterey	D.L. Wagner	Mar 27 84	
?	32867	Stilbosis	extensa	Big Creek Reserve	Monterey	Powell, Hsu	Jun 14 91	UCB
?	56384	Stretchia	pacifica	Big Creek Reserve	Monterey	J.Powell	Jan 25 88	UCB
?	55324	Stylopoda	sexpunctata	Arroyo Seco Camp	Monterey	D. Whitman	Apr 30 72	UCB
?	33651	Symmetrischema	striatellum	Big Creek Reserve	Monterey	J. Powell	Oct 30 89	UCB
N	33664	Symmetrischema	tangolias	Big Creek Reserve	Monterey	J. Powell	Oct 30 89	UCB
N	35076	Synanthedon	albicornis	21 mi W Soledad	Monterey	R.M.Brown	Jun 14 97	RMB
N	35103	Synanthedon	bibionipennis	Carmel Valley	Monterey	B.Smith	Jun 24 73	
?	35136	Synanthedon	melinipennis	Bixby Cr	Monterey	M. Washbauer	Aug 12 49	UCB
?	35149	Synanthedon	polygona	Marina Dunes	Monterey	R.L. Langston	Jul 18 86	CAS
N	35211	Synanthedon	sequoiae	Prunedale	Monterey	C.S. Koehler	in Jan 1965	UCB
?	45098	Synaxis	cervinaria	Big Creek Reserve	Monterey	JAP. YFH	Apr 13 90	UCB
?	45148	Synaxis	hirsutaria	Big Creek Reserve	Monterey	J.Powell	Oct 3 91	UCB
N	45048	Synaxis	jubararia jubararia	Monterey	Monterey	F.P. Sala	Nov 13 96	LACM
?	45072	Synaxis	pallulata	Pfeiffer Big Trees	Monterey	J. Powell	Dec 15 79	UCB
?	45692	Synchlora	aerata liguoraria	Big Creek Reserve	Monterey	F.Arias	Nov 7 89	UCB
?	34412	Syncopacma	nigrella	Big Creek Reserve	Monterey	J. Powell	Oct 3 91	UCB
?	37547	Syndemis	sequoiae	Big Creek Reserve	Monterey	J.Powell	May 22 92	UCB
?	51163	Synedoida	divergens	Big Creek Reserve	Monterey	J.Powell	May 12 92	UCB
?	51106	Synedoida	edwardsi	21 mi W Soledad	Monterey	R.M.Brown	Jun 14 97	RMB
?	52132	Tarachidia	fumata	9 mi E King City	Monterey	C.W. O'Brien	Apr 1 59	UCB
?	35297	Tebenna	gnaphaliella	Big Creek Reserve	Monterey	J. Powell	Apr 24 87	UCB
?	30250	Tegeticula	maculata maculata	Big Creek Reserve	Monterey	J. Powell	Nov 7 88	
N	39837	Tehama	bonifatella	Carmel	Monterey	R.H. Leuschner	Jun 25 69	LACM
?	33320	Teleiposis	baldiana	Big Creek Reserve	Monterey	J. Powell	Apr 28 90	UCB
?	40535	Telethusia	ovalis	Big Creek Reserve	Monterey	J.A. Powell	Oct 2 91	UCB
?	33253	Telphusa	sedulifella	Big Creek Reserve	Monterey	J. Powell	May 3 91	UCB
?	58729	Tesagrotis	ama	Big Creek Reserve	Monterey	J.Powell	Aug 2-4 92	UCB
?	50602	Tetanolita	palligera	Big Creek Reserve	Monterey	J.Powell	Jul 7 86	UCB
?	44487	Thallophaga	nigroseriara	Big Creek Reserve	Monterey	J.Powell	Mar 26 87	UCB
?	44461	Thallophaga	taylorata	Big Creek Reserve	Monterey	J.Powell	May 22 92	UCB
?	39808	Thaumatopsis	repanda	Big Creek Reserve	Monterey	J. Powell	Aug 2 92	UCB
?	30828	Tinea	niveocapitella	Big Creek Reserve	Monterey	J. Powell	Apr 23 87	UCB
?	30837	Tinea	occidentella	Big Creek Reserve	Monterey	J. Powell	Sep 28 87	UCB
?	30854	Tinea	pallescentella	Big Creek Reserve	Monterey	F.Arias	Sep 15 89	UCB

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Pheromone Search of 942 Monterey County Lepidoptera Species

N	30871	Tinea	pellionella	Big Creek Reserve	Monterey	J. Powell	Dec 17 93	UCB
?	30125	Tischeria	ceanothi?	8 mi S Jamesburg	Monterey	D.L. Wagner	May 15 83	UCConn
?	30086	Tischeria	discreta	Nacimiento Rang Sta	Monterey	Wagner, Gold	Mar 27 84	UCB
?	30104	Tischeria	splendida	Big Creek Reserve	Monterey	J. Powell	Jul 22 92	
?	48658	Tolype	lowriei	Big Creek Reserve	Monterey	J.Powell	Sep 4 91	UCB
?	40089	Toripalpus	trabalis	Hastings Res	Monterey	J.A. Powell	May 24-25 98	UCB
?	40240	Trachycera	caliginella	21 mi W Soledad	Monterey	R.M. Brown	Jun 14 97	RMB
?	47566	Trichodezia	californiata	Redwood Gulch, Hwy 1	Monterey	R.H.Leuschner	Mar 31 79	RHL
?	57153	Tricholita	fistula	Big Creek Reserve	Monterey	J.Powell	Sep 3 91	UCB
N	51730	Trichoplusia	ni	Big Creek Reserve	Monterey	J.Powell	Sep 3 91	UCB
?	41465	Trichoptilus	californicus	Big Creek Reserve	Monterey	J.A. Powell	Apr 20 92	UCB
?	41480	Trichoptilus	pygmaeus	Big Creek Reserve	Monterey	J.A. Powell	Aug 17 88	UCB
?	46707	Triphosa	californiata	Big Sur	Monterey	R.M. Brown	May 8 76	RMB
?	46675	Triphosa	haesitata haesitata	Big Sur	Monterey	R.M. Brown	Apr 11 70	RMB
?	39231	Udea	profundalis	Big Creek Reserve	Monterey	J. Powell	May 23 92	UCB
?	39203	Udea	rubigalis	Watsonville	Monterey			LACM
?	59195	Ufeus	plucatus hulsti	Big Creek Reserve	Monterey	JAP, YFH	Jun 15 91	UCB
?	59176	Ufeus	satyricus sagittarius	Big Creek Reserve	Monterey	J.Powell	Nov 18 90	UCB
?	57058	Ulianthe	dilecta	Big Creek Reserve	Monterey	J.Powell	Sep 4 91	UCB
?	38674	Uresiphita	reversalis	Lucia	Monterey	R.H. Leuschner	Apr 6 90	LACM
?	32457	Valentia	glandulella?	Big Creek Reserve	Monterey	J. Powell	Aug 17 88	UCB
?	47504	Venusia	duodecemlineata	Big Sur	Monterey	R.M. Brown	May 8 76	RMB
?	47546	Venusia	pearsalli	Big Sur	Monterey	R.M. Brown	Apr 8 80	RMB
?	30168	Vespina	quervicora	8 mi S Jamesburg	Monterey	D.L. Wagner	May 15 83	UConn
?	41246	Vitula	serratilineella	Big Creek Reserve	Monterey	J.A. Powell	Aug 25 89	UCB
?	32883	Walshia	misceocolorella	Big Creek Reserve	Monterey	J. Powell	Sep 4 91	UCB
?	47247	Xanthorhoe	defensaria	Big Sur	Monterey	R.M. Brown	May 27 82	RMB
?	33300	Xenolechia	aethiops	Big Creek Reserve	Monterey	JWB, JAP	Jul 7 86	UCB
?	58649	Xestia	infirmatis	Big Creek Reserve	Monterey	J.Powell	Sep 4 91	UCB
?	58638	Xestia	mustelina	Big Creek Reserve	Monterey	J.Powell	Oct 3 91	UCB
?	34744	Ypsolopha	cervella	6 mi W Greenfield	Monterey	J. Powell	May 3 75	UCB
?	34816	Ypsolopha	rubrella	Big Creek Reserve	Monterey			UCB
?	51300	Zale	lunata salicis	Big Creek Reserve	Monterey	J.Powell	Apr 23 89	UCB
?	51332	Zale	rubi	Arroyo Seco	Monterey	F. Farqua	Jun 8 47	UCD
?	51349	Zale	termina	Big Creek Reserve	Monterey	J.Powell	May 1 92	UCB
?	34853	Zelleria	gracilarella	Big Creek Reserve	Monterey	J.Powell	Jun 16 91	UCB
?	47388	Zenopleps	lignicolorata	Big Creek Reserve	Monterey	J.A. Powell	Mar 25 80	UCB
?	41111	Zophodia	grossulariella	Carmel	Monterey	R.H. Leuschner	Mar 31 79	LACM
?	57111	Zosteropoda	hirtipes	Big Creek Reserve	Monterey	J.Powell	Feb 22 88	UCB
?	54112	Zotheca	tranquilla	Big Creek Reserve	Monterey	J. Powell	Jul 6 92	UCB

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