

**Appendix C:
Biological Resources Supporting Information**

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C.1 - California Natural Diversity Database Results

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Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad (Malaga (3611966) OR Sanger (3611965) OR Round Mountain (3611975) OR Clovis (3611976))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S1S2	SSC
Ambystoma californiense pop. 1 California tiger salamander - central California DPS	AAAAA01181	Threatened	Threatened	G2G3T3	S3	WL
Anniella pulchra Northern California legless lizard	ARACC01020	None	None	G3	S3	SSC
Arizona elegans occidentalis California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Bombus crotchii Crotch bumble bee	IIHYM24480	None	None	G2	S1S2	
Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
Branchinecta mesovallensis midvalley fairy shrimp	ICBRA03150	None	None	G2	S2S3	
Buteo swainsoni Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
Carex comosa bristly sedge	PMCYP032Y0	None	None	G5	S2	2B.1
Castilleja campestris var. succulenta succulent owl's-clover	PDSCR0D3Z1	Threatened	Endangered	G4?T2T3	S2S3	1B.2
Caulanthus californicus California jewelflower	PDBRA31010	Endangered	Endangered	G1	S1	1B.1
Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
Desmocerus californicus dimorphus valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2T3	S3	
Efferia antiochi Antioch efferian robberfly	IIDIP07010	None	None	G1G2	S1S2	
Emys marmorata western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Eryngium spinosepalum spiny-sepaled button-celery	PDAP10Z0Y0	None	None	G2	S2	1B.2
Imperata brevifolia California satintail	PMPOA3D020	None	None	G4	S3	2B.1
Lagophylla dichotoma forked hare-leaf	PDAST5J070	None	None	G2	S2	1B.1



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Leptosiphon serrulatus</i> Madera leptosiphon	PDPLM09130	None	None	G3	S3	1B.2
<i>Linderiella occidentalis</i> California linderiella	ICBRA06010	None	None	G2G3	S2S3	
<i>Lytta molesta</i> molestan blister beetle	IICOL4C030	None	None	G2	S2	
<i>Metapogon hurdi</i> Hurd's metapogon robberfly	IIDIP08010	None	None	G1G2	S1S2	
<i>Nannopterum auritum</i> double-crested cormorant	ABNFD01020	None	None	G5	S4	WL
Northern Hardpan Vernal Pool Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
<i>Phrynosoma blainvillii</i> coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
<i>Pseudobahia peirsonii</i> San Joaquin adobe sunburst	PDAST7P030	Threatened	Endangered	G1	S1	1B.1
<i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
<i>Spea hammondii</i> western spadefoot	AAABF02020	None	None	G2G3	S3	SSC
<i>Taxidea taxus</i> American badger	AMAJF04010	None	None	G5	S3	SSC
<i>Tuctoria greenei</i> Greene's tuctoria	PMPOA6N010	Endangered	Rare	G1	S1	1B.1
<i>Vireo bellii pusillus</i> least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	
<i>Vulpes macrotis mutica</i> San Joaquin kit fox	AMAJA03041	Endangered	Threatened	G4T2	S2	

Record Count: 33

C.2 - California Native Plant Society Inventory Results

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CNPS Rare Plant Inventory



Search Results

4 matches found. Click on scientific name for details

Search Criteria: [CRPR](#) is one of [1A:1B:2A:2B] [Fed List](#) is one of [FE:FT:FC] or [State List](#) is one of [CE:CT:CR:CE:CT] , [Quad](#) is one of [3611965:3611966:3611976:3611975]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	PHOTO
Castilleja campestris var. succulenta	succulent owl's-clover	Orobanchaceae	annual herb (hemiparasitic)	(Mar)Apr-May	FT	CE	G4?T2T3	S2S3	1B.2	No Photo Available
Caulanthus californicus	California jewelflower	Brassicaceae	annual herb	Feb-May	FE	CE	G1	S1	1B.1	No Photo Available
Pseudobahia peirsonii	San Joaquin adobe sunburst	Asteraceae	annual herb	Feb-Apr	FT	CE	G1	S1	1B.1	No Photo Available
Tuctoria greenei	Greene's tuctoria	Poaceae	annual herb	May-Jul(Sep)	FE	CR	G1	S1	1B.1	 ©2008 F. Gauna

Showing 1 to 4 of 4 entries

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CONTACT US

Send questions and comments to rareplants@cnps.org.

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C.3 - Project Species List

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Project Species List

Scientific Name	Common Name	Taxonomy Group	Elm Code	Total Occurrences	Federal Listing	California Listing	G Rank	S Rank	Rare Plant Rank	Other Status	Habitats	General Habitat	Micro Habitat	Return Occurrences
Agelaius tricolor	tricolored blackbird	Birds	ABPBXB0020	955	None	Threatened	G1G2	S1S2		BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern	Freshwater marsh Marsh & swamp Swamp Wetland	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California.	Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	6
Ambystoma californiense pop. 1	California tiger salamander - central California DPS	Amphibians	AAAAA01181	1265	Threatened	Threatened	G2G3T3	S3		CDFW_WL-Watch List IUCN_VU-Vulnerable	Cismontane woodland Meadow & seep Riparian woodland Valley & foothill grassland Vernal pool Wetland	Lives in vacant or mammal-occupied burrows throughout most of the year; in grassland, savanna, or open woodland habitats.	Need underground refuges, especially ground squirrel burrows, and vernal pools or other seasonal water sources for breeding.	12
Anniella pulchra	Northern California legless lizard	Reptiles	ARACC01020	383	None	None	G3	S3		CDFW_SSC-Species of Special Concern USFS_S-Sensitive	Chaparral Coastal dunes Coastal scrub	Sandy or loose loamy soils under sparse vegetation.	Soil moisture is essential. They prefer soils with a high moisture content.	1
Arizona elegans occidentalis	California glossy snake	Reptiles	ARADB01017	260	None	None	G5T2	S2		CDFW_SSC-Species of Special Concern		Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California.	Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	1
Athene cunicularia	burrowing owl	Birds	ABNSB10010	2011	None	None	G4	S3		BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	Coastal prairie Coastal scrub Great Basin grassland Great Basin scrub Mojavean desert scrub Sonoran desert scrub Valley & foothill grassland	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	3
Branchinecta lynchi	vernal pool fairy shrimp	Crustaceans	ICBRA03030	795	Threatened	None	G3	S3		IUCN_VU-Vulnerable	Valley & foothill grassland Vernal pool Wetland	Endemic to the grasslands of the Central Valley, Central Coast mountains, and South Coast mountains, in astatic rain-filled pools.	Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools.	9
Buteo swainsoni	Swainson's hawk	Birds	ABNKC19070	2547	None	Threatened	G5	S3		BLM_S-Sensitive IUCN_LC-Least Concern	Great Basin grassland Riparian forest Riparian woodland Valley & foothill grassland	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannas, and agricultural or ranch lands with groves or lines of trees.	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	2
Carex comosa	bristly sedge	Monocots	PMCPY032Y0	31	None	None	G5	S2	2B.1	IUCN_LC-Least Concern	Coastal prairie Freshwater marsh Marsh & swamp Valley & foothill grassland Wetland	Marshes and swamps, coastal prairie, valley and foothill grassland.	Lake margins, wet places; site below sea level is on a Delta island. -5-1010 m.	1
Castilleja campestris var. succulenta	succulent owl's-clover	Dicots	PDSCROD3Z1	99	Threatened	Endangered	G4?T2T3	S2S3	1B.2		Vernal pool Wetland	Vernal pools.	Moist places, often in acidic soils. 20-705 m.	2
Caulanthus californicus	California jewelflower	Dicots	PDBRA31010	67	Endangered	Endangered	G1	S1	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_SBBG-Santa Barbara Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley	Chenopod scrub Pinon & juniper woodlands Valley & foothill grassland	Chenopod scrub, valley and foothill grassland, pinyon and juniper woodland.	Sandy soils. 65-1860 m.	1
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Birds	ABNRB02022	165	Threatened	Endangered	G5T2T3	S1		BLM_S-Sensitive NABCI_RWL-Red Watch List USFS_S-Sensitive	Riparian forest	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems.	Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	1
Desmocerus californicus dimorphus	valley elderberry longhorn beetle	Insects	IICOL48011	271	Threatened	None	G3T2T3	S3			Riparian scrub	Occurs only in the Central Valley of California, in association with blue elderberry (Sambucus mexicana).	Prefers to lay eggs in elderberries 2-8 inches in diameter; some preference shown for "stressed" elderberries.	8

Project Species List

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Emys marmorata	western pond turtle	Reptiles	ARAAD02030	1404	None	None	G3G4	S3		BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive	Aquatic Artificial flowing waters Klamath/North coast flowing waters Klamath/North coast standing waters Marsh & swamp Sacramento/San Joaquin flowing waters Sacramento/San Joaquin standing waters South coast flowing waters South coast standing waters Wetland	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation.	Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	1
Eryngium spinosepalum	spiny-sealed button-celery	Dicots	PDAP1020Y0	108	None	None	G2	S2	1B.2	BLM_S-Sensitive	Valley & foothill grassland Vernal pool Wetland	Vernal pools, valley and foothill grassland.	Some sites on clay soil of granitic origin; vernal pools, within grassland. 15-1270 m.	1
Imperata brevifolia	California satintail	Monocots	PMPOA3D020	32	None	None	G4	S3	2B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_SBBG-Santa Barbara Botanic Garden USFS_S-Sensitive	Chaparral Coastal scrub Meadow & seep Mojavean desert scrub Riparian scrub Wetland	Coastal scrub, chaparral, riparian scrub, mojavean desert scrub, meadows and seeps (alkali), riparian scrub.	Mesic sites, alkali seeps, riparian areas. 3-1495 m.	1
Lagophylla dichotoma	forked hare-leaf	Dicots	PDAST5J070	7	None	None	G2	S2	1B.1		Cismontane woodland Valley & foothill grassland	Cismontane woodland, valley and foothill grassland.	Sometimes clay. 190-335 m.	1
Leptosiphon serrulatus	Madera leptosiphon	Dicots	PDPLM09130	27	None	None	G3	S3	1B.2	BLM_S-Sensitive USFS_S-Sensitive	Cismontane woodland Lower montane coniferous forest	Cismontane woodland, lower montane coniferous forest.	Dry slopes; often on decomposed granite in woodland. 80-1645 m.	1
Nannopterum auritum	double-crested cormorant	Birds	ABNFD01020	39	None	None	G5	S4		CDFW_WL-Watch List IUCN_LC-Least Concern	Riparian forest Riparian scrub Riparian woodland	Colonial nester on coastal cliffs, offshore islands, and along lake margins in the interior of the state.	Nests along coast on sequestered islets, usually on ground with sloping surface, or in tall trees along lake margins.	1
Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	Herbaceous	CTT44110CA	126	None	None	G3	S3.1			Vernal pool Wetland			1
Phrynosoma blainvillii	coast horned lizard	Reptiles	ARACF12100	784	None	None	G3G4	S3S4		BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Chaparral Cismontane woodland Coastal bluff scrub Coastal scrub Desert wash Pinon & juniper woodlands Riparian scrub Riparian woodland Valley & foothill grassland	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	1
Pseudobahia peirsonii	San Joaquin adobe sunburst	Dicots	PDAST7P030	51	Threatened	Endangered	G1	S1	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Cismontane woodland Valley & foothill grassland	Valley and foothill grassland, cismontane woodland.	Grassy valley floors and rolling foothills in heavy clay soil. 115-795 m.	5
Sagittaria sanfordii	Sanford's arrowhead	Monocots	PMALI040Q0	143	None	None	G3	S3	1B.2	BLM_S-Sensitive	Marsh & swamp Wetland	Marshes and swamps.	In standing or slow-moving freshwater ponds, marshes, and ditches. 0-605 m.	4
Spea hammondi	western spadefoot	Amphibians	AAABF02020	1422	None	None	G2G3	S3		BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened	Cismontane woodland Coastal scrub Valley & foothill grassland Vernal pool Wetland	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	Vernal pools are essential for breeding and egg-laying.	10
Taxidea taxus	American badger	Mammals	AMAJF04010	594	None	None	G5	S3		CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	Alkali marsh Alkali playa Alpine Alpine dwarf scrub Bog & fen Brackish marsh Broadleaved upland forest Chaparral Chenopod scrub Cismontane woodland Closed-cone coniferous forest Coastal bluff scrub Coastal dunes Coastal prairie Coastal scrub Desert dunes Desert wash Freshwater marsh Great Basin grassland Great Basin scrub Interior dunes Ione formation Joshua tree woodland Limestone Lower montane coniferous forest Marsh & swamp Meadow & seep Mojavean desert scrub Montane dwarf scrub North coast coniferous forest Oldgrowth Pavement plain Redwood Riparian forest Riparian scrub Riparian woodland Salt marsh Sonoran desert scrub Sonoran thorn woodland Ultramafic Upper montane coniferous forest Upper Sonoran scrub Valley & foothill grassland	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	1
Tuctoria greenei	Greene's tuctoria	Monocots	PMPOA6N010	50	Endangered	Rare	G1	S1	1B.1		Vernal pool Wetland	Vernal pools.	Vernal pools in open grasslands. 25-1325 m.	3

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Vireo bellii pusillus	Least Bell's vireo	Birds	ABPBW01114	504	Endangered	Endangered	G5T2	S2		IUCN_NT-Near Threatened NABCI_YWL-Yellow Watch List	Riparian forest Riparian scrub Riparian woodland	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft.	Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	2
Vulpes macrotis mutica	San Joaquin kit fox	Mammals	AMAJA03041	1020	Endangered	Threatened	G4T2	S2			Chenopod scrub Valley & foothill grassland	Annual grasslands or grassy open stages with scattered shrubby vegetation.	Need loose-textured sandy soils for burrowing, and suitable prey base.	1