

# Appendix C Species of Greatest Conservation Need

A key element of updating the California State Wildlife Action Plan (SWAP) is identifying and compiling information on the species of wildlife that are indicative of the state's biological diversity and have the greatest need for conservation. These species are referred to as Species of Greatest Conservation Need (SGCN). For SWAP 2015, technical teams developed criteria and evaluated species, resulting in a revised SGCN list of invertebrates, amphibians, reptiles, fish, birds, mammals, and plants. The improved set of criteria was developed to ensure a more scientifically rigorous list compared to the list in SWAP 2005.

## Criteria

Criteria 1 includes species listed as threatened, endangered or candidate species in California under the federal Endangered Species Act (ESA) or the California Endangered Species Act (CESA). State and Tribal Wildlife Grants (SWG) discourages the use of funds solely on federally listed species and on species that already have dedicated funding. Although these species are included in the SGCN list, it does not imply a funding preference or prioritization.

Criteria 2 includes species for which there is a conservation concern. The species under the second criteria are generally equivalent to the California Species of Special Concern (SSC) designation. Other conservation concern designations are described below under each category of species. The SSC designation carries no formal legal protection; the intent of the designation is to focus attention on animals of conservation risk, stimulate research on poorly known species, and achieve conservation and recovery of these animals before they meet criteria for listing as threatened or endangered. More information about CDFW's process of evaluating SSC, as well as their lists by taxa and life history accounts, including habitat association, population trends, and range maps, can be found online at <http://www.dfg.ca.gov/wildlife/nongame/ssc/>.

Criteria 3 includes species that were identified by CDFW as being highly vulnerable to climate change. The methods used to identify SGCN are described below for each category of species.

## Invertebrates

Invertebrates that are state or federally listed are included under Criteria 1. Invertebrate species under Criteria 2 have a NatureServe State Conservation Rank of S1. The NatureServe ranking represents a score that reflects a combination of rarity, threat, and trend factors within California's state boundaries. Rarity is weighed heavier than the other two factors. An S1 ranking is defined as critically imperiled in the state because of extreme rarity (often five or fewer populations) or because of factor(s), such as very steep declines, making it especially vulnerable to extirpation from the state. Marine invertebrates are included

under Criteria 2 if they are subject to a take or harvest prohibition by CDFW or National Marine Fisheries Service (NMFS), if they are under a federal rebuilding plan, or if they are considered to be overfished.

## **Fish**

Fishes that are state or federally listed are included under Criteria 1. Freshwater and anadromous fish species identified under Criteria 2 include SSC and species subject to a take or harvest prohibition by CDFW or NMFS, a federal rebuilding plan, or consideration of being overfished. The SSC report update from the 1995 report for fish includes information on the distribution, abundance, and status of species (<http://www.dfg.ca.gov/wildlife/nongame/ssc/fish.html>). Climate vulnerability for fish was determined using the methods and evaluation presented in Moyle et al. 2012. The methodology uses expert opinions of the authors and literature reviews of the status and biology of the fishes to score both status of each species (“baseline vulnerability”) and likely impact of climate change (“climate vulnerability”). When the total scores for baseline and climate vulnerability were combined, they produced a score that indicated the overall vulnerability to climate change. Species with a highly vulnerable or critically vulnerable score are included as SGCN under Criteria 3.

## **Amphibians and Reptiles**

Amphibians and reptiles that are state or federally listed are included under Criteria 1. CDFW updated the list of amphibian and reptile SSC (Thomson et al. 2012) and those species are included as SGCN under Criteria 2. The SSC report (in process, see <http://www.dfg.ca.gov/wildlife/nongame/ssc/amphibian-reptile.html>) contains species accounts and distribution maps for 48 amphibian and reptile special concern taxa (11 salamanders, 14 anurans, 2 turtles, 12 lizards, and 9 snakes). Each species account contains a description of the animal, taxonomic remarks, distribution and life history information, habitat description, status, management recommendations, and a range map. Under Criteria 3, a highly vulnerable status was assigned to amphibians and reptiles, if any of the following occurred:

- 90-100 percent of the (sub)species’ currently occupied cells were predicted to decline in suitability by 2050 (Warren et al. 2014);
- greater than 40 percent of currently occupied localities and/or greater than 50 percent of the species’ range were predicted to become unsuitable by 2050 (Wright et al. 2013); or
- expert opinion by the SSC Technical Advisory Committee predicted the (sub)species would be highly sensitive to climate change over the next 100 years (Thomson et al. 2012).

## **Birds**

Birds that are state or federally listed are included under Criteria 1. Since the 2005 version of the SWAP, CDFW updated the bird SSC list (BSSC; Shuford and Gardali 2008) and those are included as SGCN under Criteria 2. The BSSC report includes species accounts for the 63 ranked taxa to document general range and abundance, seasonal status in California, historical range and abundance in California,

ecological requirements, and threats; additionally, management, research, and monitoring recommendations are presented (<http://www.dfg.ca.gov/wildlife/nongame/ssc/birds.html>). Species with a high vulnerability score are included as SGCN under Criteria 3. These species were determined through an extensive climate change vulnerability assessment for birds (Gardali et al. 2012). The methodology is described below.

To quantify climate vulnerability, a taxon's sensitivity and exposure were considered. Sensitivity was determined by intrinsic traits of species (habitat specialization, physiological tolerances, migratory status, and dispersal ability) that make them vulnerable to climate change. Exposure was determined by the extrinsic factors (habitat suitability, food availability, and extreme weather) that will result from climate change. Sensitivity and exposure were scored independently; then, the two scores were multiplied to generate a climate change vulnerability index. To integrate the climate change vulnerability index with the BSSC list, Gardali et al. (2012) took a similar approach to that proposed by the U.S. Environmental Protection Agency (EPA) to integrate climate change vulnerability with existing stresses for threatened and endangered species (EPA 2009). A matrix combined the priority Climate Change Vulnerability of California ranks from each list to produce a final integrated list.

## **Mammals**

Mammals that are state or federally listed are included under Criteria 1. Since the 2005 version of the SWAP, CDFW is in the process of updating the mammal SSC list (MSSC). Species listed on the current MSSC list are included as SGCN under Criteria 2. The MSSC report (in process, see <http://www.dfg.ca.gov/wildlife/nongame/ssc/mammals.html>) lists 36 species and subspecies of land mammals native to California determined to be potentially threatened with extinction in California. Species accounts for each taxon include initial description references, information on distribution, population status, and habitat, recommendations for additional assessment and conservation actions, taxonomic remarks, and distribution records. The vulnerability of California's land mammals was assessed for SWAP 2015 using scores developed for the MSSC update. For the MSSC project, a team of experts used a scoring system to quantify the conservation status of all the approximately 580 native land mammal taxa (species and subspecies) in California. Score definitions were developed for eight conservation factors, including population size, population trend, range size, range trend, population concentration, threats, endemism, and climate change. Mammals with a high risk ranking are included as SGCN under Criteria 3.

## **Plants**

Plants that are state or federally listed are included under Criteria 1. Marine plant species where take or harvest is prohibited by CDFW or NMFS are included under Criteria 2. Plants with a California Rare Plant Rank of 1B.1, which indicates they are rare or endangered in California and elsewhere and are seriously threatened, are also included as SGCN under Criteria 2.

## List of Species of Greatest Conservation Need

The list of SGCN for SWAP 2015 is included in this Appendix. The list includes 414 fish and wildlife species, 264 invertebrate species, and 475 plant species. In Chapter 5, the SGCN are identified as they occur within the provinces and conservation units for each of the targets. Common stresses and pressures affecting SGCN habitats are described in Chapter 5. Conservation strategies intended to relieve conservation targets from negative impacts and/or enhance habitat conditions are also identified in Chapter 5.

While plants are included in the list of SGCN, presence of SGCN plants were not included as a separate criteria used to prioritize or select targets when developing regional SWAP strategies. USFWS accepts plants as SGCN, but they are not currently eligible for SWG funding. However, plants will benefit from implementation of SWAP 2015 strategies incidentally when occurring in habitats conserved for animal SGCN. CDFW has chosen to include plants on the SGCN list, so SWAP 2015 would be a comprehensive conservation planning document.

## Invertebrates

Scientific Name	Common Name	Legal Status	Conservation Concern	Climate Vulnerable
<b>Pelecypoda (clams and mussels)</b>				
<i>Pisidium ultramontanum</i>	montane peaclam		S1	
<b>Gastropoda (snails, slugs, and abalone)</b>				
<i>Ammonitella yatesii</i>	tight coin (=Yates' snail)		S1	
<i>Assiminea infima</i>	Badwater snail		S1	
<i>Binneya notabilis</i>	Santa Barbara shelled slug		S1	
<i>Eremarionta immaculata</i>	white desertsnailed		S1	
<i>Eremarionta millepalmarum</i>	Thousand Palms desertsnailed		S1	
<i>Eremarionta morongoana</i>	Morongo (=Colorado) desertsnailed		S1	
<i>Eremarionta rowelli bakerensis</i>	Baker's desertsnailed		S1	
<i>Eremarionta rowelli mccoiana</i>	California Mcco snail		S1	
<i>Fontelicella sp.</i>	Deep Springs fontelicella		S1	
<i>Haliotis corrugata</i>	pink abalone		NT	X
<i>Haliotis cracherodii</i>	black abalone	FE		X
<i>Haliotis fulgens</i>	green abalone		NT	X
<i>Haliotis kamtschatkana</i>	pinto abalone		NT	X
<i>Haliotis sorenseni</i>	white abalone	FE		X
<i>Haliotis walallensis</i>	flat abalone		NT	X
<i>Haplotrema catalinense</i>	Santa Catalina lancetooth		S1	
<i>Helisoma newberryi</i>	Great Basin rams-horn		S1	
<i>Helminthoglypta allynsmithi</i>	Merced Canyon shoulderband		S1	
<i>Helminthoglypta arrosa monticola</i>	mountain shoulderband		S1	
<i>Helminthoglypta arrosa pomoensis</i>	Pomo bronze shoulderband		S1	
<i>Helminthoglypta callistoderma</i>	Kern shoulderband		S1	
<i>Helminthoglypta coelata</i>	mesa shoulderband		S1	
<i>Helminthoglypta fontiphila</i>	Soledad shoulderband		S1	
<i>Helminthoglypta hertleini</i>	Oregon shoulderband		S1	
<i>Helminthoglypta milleri</i>	peak shoulderband		S1	
<i>Helminthoglypta mohaveana</i>	Victorville shoulderband		S1	
<i>Helminthoglypta nickliniana awania</i>	Peninsula coast range shoulderband		S1	
<i>Helminthoglypta nickliniana bridgesi</i>	Bridges' coast range shoulderband		S1	
<i>Helminthoglypta sequoicola consors</i>	redwood shoulderband		S1	
<i>Helminthoglypta stiversiana williamsi</i>	Williams' bronze shoulderband		S1	

Legal Status

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Conservation Concern

S1 = NatureServe State Conservation Rank of S1 (Invertebrates)  
 SSC = CDFW Species of Special Concern  
 NT = No take allowed by state and/or federal harvesting/fishing regulations  
 R = Under federal rebuilding plan  
 O = Overfished

Appendix C Species of Greatest Conservation Need

Scientific Name	Common Name	Legal Status	Conservation Concern	Climate Vulnerable
<i>Helminthoglypta taylori</i>	westfork shoulderband		S1	
<i>Helminthoglypta traskii pacoimensis</i>	Pacoima shoulderband		S1	
<i>Helminthoglypta traskii traskii</i>	Trask shoulderband		S1	
<i>Helminthoglypta uvasana</i>	Grapevine shoulderband		S1	
<i>Helminthoglypta vasquezi</i>	Vasquez shoulderband		S1	
<i>Helminthoglypta walkeriana</i>	Morro shoulderband (=banded dune) snail	FE		
<i>Herpeteros angelus</i>	Soledad deserts nail		S1	
<i>Ipnobius robustus</i>	robust tryonia		S1	
<i>Juga chacei</i>	Chace juga		S1	
<i>Juga occata</i>	scalloped juga		S1	
<i>Lanx klamathensis</i>	scale lanx		S1	
<i>Micrarionta feralis</i>	San Nicolas islandsnail		S1	
<i>Micrarionta gabbi</i>	San Clemente islandsnail		S1	
<i>Micrarionta opuntia</i>	pricklypear islandsnail		S1	
<i>Monadenia circumcarinata</i>	keeled sideband		S1	
<i>Monadenia fidelis pronotis</i>	rocky coast Pacific sideband		S1	
<i>Monadenia infumata ochromphalus</i>	yellow-based sideband		S1	
<i>Monadenia infumata setosa</i>	Trinity bristle snail	ST		
<i>Monadenia marmorotis</i>	marble sideband		S1	
<i>Monadenia mormonum buttoni</i>	Button's Sierra sideband		S1	
<i>Monadenia mormonum hirsuta</i>	hirsute Sierra sideband		S1	
<i>Monadenia tuolumneana</i>	Tuolumne sideband		S1	
<i>Monadenia yosemitensis</i>	Yosemite Mariposa sideband		S1	
<i>Pomatiopsis binneyi</i>	robust walker		S1	
<i>Pomatiopsis californica</i>	Pacific walker		S1	
<i>Pomatiopsis chacei</i>	marsh walker		S1	
<i>Pristiloma shepardae</i>	Shepard's snail		S1	
<i>Pristinicola hemphilli</i>	pristine pyrg		S1	
<i>Pyrgulopsis aardahli</i>	Benton Valley (=Aahrdahl's) springsnail		S1	
<i>Pyrgulopsis diablensis</i>	Diablo Range pyrg		S1	
<i>Pyrgulopsis falciglans</i>	Likely pyrg		S1	
<i>Pyrgulopsis greggi</i>	Kern River pyrg		S1	
<i>Pyrgulopsis longae</i>	Long Valley pyrg		S1	
<i>Pyrgulopsis perturbata</i>	Fish Slough springsnail		S1	
<i>Pyrgulopsis rupinicola</i>	Sucker Springs pyrg		S1	

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<i>Pyrgulopsis taylori</i>	San Luis Obispo pyrg		S1	
<i>Pyrgulopsis ventricosa</i>	Clear Lake pyrg		S1	
<i>Radiocentrum avalonense</i>	Catalina mountainsnail		S1	
<i>Rothelix warnerfontis</i>	Warner Springs shoulderband		S1	
<i>Sterkia clementina</i>	San Clemente Island blunt-top snail		S1	
<i>Trilobopsis roperi</i>	Shasta chaparral		S1	
<i>Trilobopsis tehamana</i>	Tehama chaparral		S1	
<i>Tryonia margae</i>	Grapevine Springs elongate tryonia		S1	
<i>Tryonia rowlandsi</i>	Grapevine Springs squat tryonia		S1	
<i>Vespericola pressleyi</i>	Big Bar hesperian		S1	
<i>Vespericola scotti</i>	Benson Gulch hesperian		S1	
<i>Vespericola shasta</i>	Shasta hesperian		S1	
<i>Xerarionta intercisa</i>	horseshoe snail		S1	
<i>Xerarionta redimita</i>	wreathed cactusnail		S1	
<i>Xerarionta tryoni</i>	Bicolor cactusnail		S1	
<b>Bivalvia (clams, oysters, scallops, geoducks, mussels)</b>				
<i>Argopecten circularis</i>	Speckled (Bay) scallop		NT	X
<b>Arachnida (spiders and relatives)</b>				
<i>Banksula galilei</i>	Galile's cave harvestman		S1	
<i>Banksula grubbsi</i>	Grubbs' cave harvestman		S1	
<i>Banksula incredula</i>	incredible harvestman		S1	
<i>Banksula martinorum</i>	Martins' cave harvestman		S1	
<i>Banksula melones</i>	Melones Cave harvestman		S1	
<i>Banksula rudolphi</i>	Rudolph's cave harvestman		S1	
<i>Banksula tuolumne</i>	Tuolumne cave harvestman		S1	
<i>Banksula tutankhamen</i>	King Tut Cave harvestman		S1	
<i>Calicina arida</i>	San Benito harvestman		S1	
<i>Calicina breva</i>	Stanislaus harvestman		S1	
<i>Calicina cloughensis</i>	Clough Cave harvestman		S1	
<i>Calicina confera</i>	Crane Flat harvestman		S1	
<i>Calicina diminua</i>	Marin blind harvestman		S1	
<i>Calicina dimorphica</i>	Watts Valley harvestman		S1	
<i>Calicina macula</i>	marbled harvestman		S1	
<i>Calicina mesaensis</i>	Table Mountain harvestman		S1	
<i>Calicina minor</i>	Edgewood blind harvestman		S1	

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<i>Calicina piedra</i>	Piedra harvestman		S1	
<i>Calileptoneta briggsi</i>	Briggs' leptonetid spider		S1	
<i>Calileptoneta oasa</i>	Andreas Canyon leptonetid spider		S1	
<i>Calileptoneta ubicki</i>	Ubick's leptonetid spider		S1	
<i>Calileptoneta wapiti</i>	Mendocino leptonetid spider		S1	
<i>Fissilicreagris imperialis</i>	Empire Cave pseudoscorpion		S1	
<i>Hubbardia idria</i>	Idria short-tailed whipscorpion		S1	
<i>Hubbardia secoensis</i>	Arroyo Seco short-tailed whipscorpion		S1	
<i>Hubbardia shoshonensis</i>	Shoshone Cave whip-scorpion		S1	
<i>Larca laceyi</i>	Lacey's Cave pseudoscorpion		S1	
<i>Meta dolloff</i>	Dolloff Cave spider		S1	
<i>Microcina edgewoodensis</i>	Edgewood Park micro-blind harvestman		S1	
<i>Microcina homi</i>	Hom's micro-blind harvestman		S1	
<i>Microcina jungi</i>	Jung's micro-blind harvestman		S1	
<i>Microcina leei</i>	Lee's micro-blind harvestman		S1	
<i>Microcina lumi</i>	Lum's micro-blind harvestman		S1	
<i>Microcina tiburona</i>	Tiburon micro-blind harvestman		S1	
<i>Neochthonius imperialis</i>	Empire Cave pseudoscorpion		S1	
<i>Pseudogarypus orpheus</i>	Music Hall Cave pseudoscorpion		S1	
<i>Socalchemmis gertschi</i>	Gertsch's socalchemmis spider		S1	
<i>Socalchemmis icenoglei</i>	Icenogle's socalchemmis spider		S1	
<i>Socalchemmis monterey</i>	Monterey socalchemmis spider		S1	
<i>Talanites ubicki</i>	Ubick's gnaphosid spider		S1	
<i>Texella deserticola</i>	Whitewater Canyon harvestman		S1	
<i>Texella kokoweef</i>	Kokoweef Crystal Cave harvestman		S1	
<i>Texella shoshone</i>	Shoshone Cave harvestman		S1	
<b>Crustacea, Order Anostraca (fairy shrimp)</b>				
<i>Branchinecta campestris</i>	pocket pouch fairy shrimp		S1	
<i>Branchinecta conservatio</i>	Conservancy fairy shrimp	FE		
<i>Branchinecta longiantenna</i>	longhorn fairy shrimp	FE		
<i>Branchinecta lynchi</i>	vernal pool fairy shrimp	FT		
<i>Branchinecta sandiegonensis</i>	San Diego fairy shrimp	FE		
<i>Linderiella santarosae</i>	Santa Rosa Plateau fairy shrimp		S1	
<i>Streptocephalus woottoni</i>	Riverside fairy shrimp	FE		

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<b>Crustacea, Order Notostraca (tadpole shrimp)</b>				
<i>Lepidurus packardii</i>	vernal pool tadpole shrimp	FE		
<b>Crustacea, Order Anomopoda (water fleas)</b>				
<i>Dumontia oregonensis</i>	hairy water flea		S1	
<b>Crustacea, Order Isopoda (isopods)</b>				
<i>Bowmanasellus sequoiae</i>	Sequoia cave isopod		S1	
<i>Calasellus longus</i>	An isopod		S1	
<b>Crustacea, Order Amphipods (amphipods)</b>				
<i>Hyalella muerta</i>	Texas Spring amphipod		S1	
<i>Hyalella sandra</i>	Death Valley amphipod		S1	
<i>Stygobromus cherylae</i>	Barr's amphipod		S1	
<i>Stygobromus cowani</i>	Cowan's amphipod		S1	
<i>Stygobromus gallawayae</i>	Gallaway's amphipod		S1	
<i>Stygobromus gradyi</i>	Grady's Cave amphipod		S1	
<i>Stygobromus hyporheicus</i>	Hypoheic amphipod		S1	
<i>Stygobromus imperialis</i>	Empire Cave amphipod		S1	
<i>Stygobromus lacicolus</i>	Lake Tahoe amphipod		S1	
<i>Stygobromus mackenziei</i>	Mackenzie's Cave amphipod		S1	
<i>Stygobromus mysticus</i>	Secret Cave amphipod		S1	
<i>Stygobromus rudolphi</i>	Rudolph's amphipod		S1	
<i>Stygobromus sheldoni</i>	Sheldon's amphipod		S1	
<i>Stygobromus sierrensis</i>	Sierra amphipod		S1	
<i>Stygobromus tahoensis</i>	Lake Tahoe stygobromid		S1	
<i>Stygobromus trinus</i>	Trinity County amphipod		S1	
<i>Stygobromus wengerorum</i>	Wengerors' Cave amphipod		S1	
<b>Crustacea, Order Decapoda (crayfish and shrimp)</b>				
<i>Pacifastacus fortis</i>	Shasta crayfish	FE/SE		
<i>Syncares pacifica</i>	California freshwater shrimp	FE/SE		
<b>Insecta, Order Plecoptera (stoneflies)</b>				
<i>Capnia lacustra</i>	Lake Tahoe benthic stonefly		S1	
<b>Insecta, Order Orthoptera (grasshoppers, katydids, and crickets)</b>				
<i>Ammopelmatus muwu</i>	Point Conception jerusalem cricket		S1	
<i>Idiostatus middlekauffi</i>	Middlekauff's shieldback katydid		S1	
<i>Trimerotropis infantilis</i>	Zayante band-winged grasshopper	FE		

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<b>Insecta, Order Heteroptera (true bugs)</b>				
<i>Ambrysus funebris</i>	Nevares Spring naucorid bug	FC		
<i>Belostoma saratogae</i>	Saratoga Springs belostoman bug		S1	
<i>Oravelia pege</i>	Dry Creek cliff strider bug		S1	
<i>Saldula usingeri</i>	Wilbur Springs shorebug		S1	
<b>Insecta, Order Coleoptera (beetles)</b>				
<i>Aegialia concinna</i>	Ciervo aegilian scarab beetle		S1	
<i>Agabus rumpfi</i>	Death Valley agabus diving beetle		S1	
<i>Anomala carlsoni</i>	Carlson's dune beetle		S1	
<i>Anomala hardyorum</i>	Hardy's dune beetle		S1	
<i>Anthicus antiochensis</i>	Antioch Dunes anthicid beetle		S1	
<i>Anthicus sacramento</i>	Sacramento anthicid beetle		S1	
<i>Cicindela gabbii</i>	western tidal-flat tiger beetle		S1	
<i>Cicindela hirticollis gravida</i>	sandy beach tiger beetle		S1	
<i>Cicindela latesignata latesignata</i>	western beach tiger beetle		S1	
<i>Cicindela ohlone</i>	Ohlone tiger beetle	FE		
<i>Cicindela senilis frosti</i>	senile tiger beetle		S1	
<i>Cicindela tranquebarica ssp.</i>	San Joaquin tiger beetle		S1	
<i>Cicindela tranquebarica viridissima</i>	greenest tiger beetle		S1	
<i>Coelus gracilis</i>	San Joaquin dune beetle		S1	
<i>Deltaspis ivae</i>	marsh-elder long-horned beetle		S1	
<i>Desmocerus californicus dimorphus</i>	valley elderberry longhorn beetle	FT		
<i>Dinacoma caseyi</i>	Casey's June beetle	FE		
<i>Dubiraphia brunnescens</i>	brownish dubiraphian riffle beetle		S1	
<i>Elaphrus viridis</i>	Delta green ground beetle	FT		
<i>Hygrotus curvipes</i>	curved-foot hygrotus diving beetle		S1	
<i>Hygrotus fontinalis</i>	travertine band-thigh diving beetle		S1	
<i>Juniperella mirabilis</i>	juniper metallic wood-boring beetle		S1	
<i>Lepismadora algodones</i>	Algodones sand jewel beetle		S1	
<i>Lichnanthe albipilosa</i>	white sand bear scarab beetle		S1	
<i>Microcylloepus formicoideus</i>	Furnace Creek riffle beetle		S1	
<i>Nebria darlingtoni</i>	South Forks ground beetle		S1	
<i>Nebria sahlbergii triad</i>	Trinity Alps ground beetle		S1	

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<i>Ochthebius reticulatus</i>	Wilbur Springs minute moss beetle		S1	
<i>Onychobaris langei</i>	Lange's El Segundo Dune weevil		S1	
<i>Optioservus canus</i>	Pinnacles optioservus riffle beetle		S1	
<i>Polyphylla anteronivea</i>	Saline Valley snow-front June beetle		S1	
<i>Polyphylla barbata</i>	Mount Hermon (=barbate) June beetle	FE		
<i>Polyphylla erratica</i>	Death Valley June beetle		S1	
<i>Polyphylla nubila</i>	Atascadero June beetle		S1	
<i>Pseudocotalpa andrewsi</i>	Andrew's dune scarab beetle		S1	
<i>Trachykele hartmani</i>	serpentine cypress wood-boring beetle		S1	
<i>Trichinorhipis knulli</i>	Knull's metallic wood-boring beetle		S1	
<i>Trigonoscuta dorothea dorothea</i>	Dorothy's El Segundo Dune weevil		S1	
<i>Trigonoscuta sp.</i>	Doyen's trigonoscuta dune weevil		S1	
<i>Vandykea tuberculata</i>	serpentine cypress long-horned beetle		S1	
<b>Insecta, Order Mecoptera (scorpionflies)</b>				
<i>Orobittacus obscurus</i>	gold rush hanging scorpionfly		S1	
<b>Insecta, Order Diptera (flies)</b>				
<i>Ablautus schlingeri</i>	Oso Flaco robber fly		S1	
<i>Paracoenia calida</i>	Wilbur Springs shore fly		S1	
<i>Rhaphiomidas terminatus abdominalis</i>	Delhi Sands flower-loving fly	FE		
<i>Rhaphiomidas terminatus terminatus</i>	El Segundo flower-loving fly		S1	
<i>Rhaphiomidas trochilus</i>	Valley mydas fly		S1	
<b>Insecta, Order Lepidoptera (butterflies and moths)</b>				
<i>Apodemia mormo langei</i>	Lange's metalmark butterfly	FE		
<i>Areniscythis brachypteris</i>	Oso Flaco flightless moth		S1	
<i>Callophrys mossii bayensis</i>	San Bruno elfin butterfly	FE		
<i>Callophrys mossii marinensis</i>	Marin elfin butterfly		S1	
<i>Callophrys thornei</i>	Thorne's hairstreak		S1	
<i>Carterocephalus palaemon magnus</i>	Sonoma arctic skipper		S1	
<i>Coenonympha tullia yontockett</i>	Yontocket satyr		S1	
<i>Danaus plexippus</i>	monarch butterfly	FPL		
<i>Euchloe hyantis andrewsi</i>	Andrew's marble butterfly		S1	
<i>Eucosma hennei</i>	Henne's eucosman moth		S1	

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<i>Euphilotes battoides allyni</i>	El Segundo blue butterfly	FE		
<i>Euphilotes enoptes smithi</i>	Smith's blue butterfly	FE		
<i>Euphydryas editha bayensis</i>	Bay checkerspot butterfly	FT		
<i>Euphydryas editha quino</i>	quino checkerspot butterfly	FE		
<i>Euproserpinus euterpe</i>	Kern primrose sphinx moth	FT		
<i>Glaucopsyche lygdamus palosverdesensis</i>	Palos Verdes blue butterfly	FE		
<i>Hesperia miriamae longaevicola</i>	White Mountains skipper		S1	
<i>Lycaena hermes</i>	Hermes copper butterfly	FC		
<i>Lycaena rubidus incana</i>	White Mountains copper		S1	
<i>Philotiella speciosa bohartorum</i>	Boharts' blue butterfly		S1	
<i>Plebejus icarioides missionensis</i>	Mission blue butterfly	FE		
<i>Plebejus idas lotis</i>	lotis blue butterfly	FE		
<i>Plebejus saepiolus aureolus</i>	San Gabriel Mountains blue butterfly		S1	
<i>Polites mardon</i>	mardon skipper		S1	
<i>Pseudocopaeodes eunus obscurus</i>	Carson wandering skipper	FE		
<i>Pyrgus ruralis lagunae</i>	Laguna Mountains skipper	FE		
<i>Speyeria adiaste adiaste</i>	unsilvered fritillary		S1	
<i>Speyeria callippe callippe</i>	callippe silverspot butterfly	FE		
<i>Speyeria nokomis carsonensis</i>	Carson Valley silverspot		S1	
<i>Speyeria zerene behrensii</i>	Behren's silverspot butterfly	FE		
<i>Speyeria zerene hippolyta</i>	Oregon silverspot butterfly	FT		
<i>Speyeria zerene myrtleae</i>	Myrtle's silverspot butterfly	FE		
<i>Speyeria zerene sonomensis</i>	Sonoma zerene fritillary		S1	
<b>Insecta, Order Trichoptera (caddisflies)</b>				
<i>Limnephilus atercus</i>	Fort Dick limnephilus caddisfly		S1	
<b>Insecta, Order Hymenoptera (ants, bees, and wasps)</b>				
<i>Argochrysis lassena</i>	Lassen cuckoo wasp		S1	
<i>Bombus caliginosus</i>	Obscure bumble bee		S1	
<i>Bombus crotchii</i>	Crotch bumble bee		S1	
<i>Bombus franklini</i>	Franklin's bumble bee		S1	
<i>Bombus morrisoni</i>	Morrison bumble bee		S1	
<i>Bombus occidentalis</i>	western bumble bee		S1	
<i>Bombus suckleyi</i>	Suckley cuckoo bumble bee		S1	
<i>Ceratochrysis bradleyi</i>	Bradley's cuckoo wasp		S1	
<i>Ceratochrysis gracilis</i>	Piute Mountains cuckoo wasp		S1	
<i>Ceratochrysis longimala</i>	Desert cuckoo wasp		S1	

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<i>Ceratochrysis menkei</i>	Menke's cuckoo wasp		S1	
<i>Halictus harmonius</i>	haromonius halictid bee		S1	
<i>Lasioglossum channelense</i>	Channel Island sweat bee		S1	
<i>Paranomada californica</i>	California cuckoo bee		S1	
<i>Perdita scitula antiochensis</i>	Antioch andrenid bee		S1	
<i>Philanthus nasalis</i>	Antioch spetid wasp		S1	
<i>Protodufourea wasbaueri</i>	Wasbauer's protodufourea bee		S1	
<i>Protodufourea zavortinki</i>	Zavortink's protodufourea bee		S1	
<i>Rhopalolemma robertsi</i>	Roberts' rhopalolemma bee		S1	
<i>Sphecodogastra antiochensis</i>	Antioch Dunes halctid bee		S1	
<i>Trachusa gummifera</i>	San Francisco Bay Area leaf-cutter bee		S1	

## Fishes

Scientific Name	Common Name	Legal Status	Conservation Concern	Climate Vulnerable
<b>Petromyzontidae (lampreys)</b>				
<i>Entosphenus hubbsi</i>	Kern brook lamprey		SSC	X
<i>Entosphenus similis</i>	Klamath River lamprey		SSC	
<i>Entosphenus tridentatus</i>	Pacific lamprey			X
<i>Entosphenus ssp. 1</i>	Goose Lake lamprey		SSC	X
<i>Lampetra ayresii</i>	river lamprey		SSC	X
<i>Lampetra lethophaga</i>	Pit Klamath brook lamprey		SSC	
<b>Lamnidae (mackerel sharks and white sharks)</b>				
<i>Carcharodon carcharias</i>	white shark		NT	
<b>Acipenseridae (sturgeon)</b>				
<i>Acipenser medirostris</i>	green sturgeon	FT	SSC	X
<i>Acipenser transmontanus</i>	white sturgeon			X
<b>Salmonidae (trout and salmon)</b>				
<i>Oncorhynchus clarkii clarkii</i>	coastal cutthroat trout		SSC	X
<i>Oncorhynchus clarkii henshawi</i>	Lahontan cutthroat trout	FT		X
<i>Oncorhynchus clarkii seleniris</i>	Paiute cutthroat trout	FT		X
<i>Oncorhynchus kisutch</i>	coho salmon - southern Oregon / northern California ESU	FT/ST		X
<i>Oncorhynchus kisutch</i>	coho salmon - central California coast ESU	FE/SE	NT	X
<i>Oncorhynchus mykiss aguabonita</i>	Volcano Creek golden trout		SSC	X

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<i>Oncorhynchus mykiss aquilarum</i>	Eagle Lake rainbow trout		SSC	X
<i>Oncorhynchus mykiss gilberti</i>	Kern River rainbow trout		SSC	X
<i>Oncorhynchus mykiss irideus</i>	southern steelhead - southern California DPS	FE	SSC	X
<i>Oncorhynchus mykiss irideus</i>	steelhead - Klamath Mountains Province DPS		SSC	X
<i>Oncorhynchus mykiss irideus</i>	steelhead - northern California DPS	FT	SSC/NT	X
<i>Oncorhynchus mykiss irideus</i>	steelhead - south/central California coast DPS	FT	SSC/NT	X
<i>Oncorhynchus mykiss irideus</i>	summer-run steelhead trout		SSC	X
<i>Oncorhynchus mykiss irideus</i>	steelhead - central California coast DPS	FT	NT	X
<i>Oncorhynchus mykiss irideus</i>	steelhead - Central Valley DPS	FT	NT	X
<i>Oncorhynchus mykiss ssp. 1</i>	Goose Lake redband trout		SSC	X
<i>Oncorhynchus mykiss ssp. 2</i>	McCloud River redband trout		SSC	X
<i>Oncorhynchus mykiss whitei</i>	Little Kern golden trout	FT		X
<i>Oncorhynchus tshawytscha</i>	Chinook salmon - Central Valley fall / late fall-run ESU		SSC	X
<i>Oncorhynchus tshawytscha</i>	Chinook salmon - spring-run Klamath-Trinity Rivers pop.		SSC	X
<i>Oncorhynchus tshawytscha</i>	Chinook salmon - California coastal ESU	FT		X
<i>Oncorhynchus tshawytscha</i>	Chinook salmon - Central Valley spring-run ESU	FT/ST		X
<i>Oncorhynchus tshawytscha</i>	Chinook salmon - Sacramento River winter-run ESU	FE/SE		X
<i>Salvelinus confluentus</i>	bull trout	FT/SE	Extirpated	X
<b>Osmeridae (smelt)</b>				
<i>Hypomesus transpacificus</i>	Delta smelt	FT/SE		X
<i>Spirinchus thaleichthys</i>	longfin smelt	FC/ST		X
<i>Thaleichthys pacificus</i>	eulachon	FT	SSC/NT	X
<b>Cyprinidae (minnows and carp)</b>				
<i>Gila coerulea</i>	blue chub		SSC	
<i>Gila elegans</i>	bonytail	FE/SE	Extirpated	
<i>Gila orcuttii</i>	arroyo chub		SSC	
<i>Lavinia exilicauda chi</i>	Clear Lake hitch	ST	SSC	X
<i>Lavinia symmetricus mitrulus</i>	Pit roach		SSC	
<i>Lavinia symmetricus navarroensis</i>	Navarro roach		SSC	
<i>Lavinia symmetricus parvipinnis</i>	Gualala roach		SSC	
<i>Lavinia symmetricus ssp. 1</i>	San Joaquin roach		SSC	X

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<i>Lavinia symmetricus ssp. 2</i>	Tomales roach		SSC	
<i>Lavinia symmetricus ssp. 3</i>	Red Hills roach		SSC	X
<i>Lavinia symmetricus subditus</i>	Monterey roach		SSC	
<i>Mylopharodon conocephalus</i>	hardhead		SSC	
<i>Pogonichthys macrolepidotus</i>	Sacramento splittail		SSC	
<i>Ptychocheilus lucius</i>	Colorado pikeminnow	FE/SE		
<i>Rhinichthys osculus ssp. 1</i>	Amargosa Canyon speckled dace		SSC	
<i>Rhinichthys osculus ssp. 2</i>	Owens speckled dace		SSC	X
<i>Rhinichthys osculus ssp. 3</i>	Santa Ana speckled dace		SSC	X
<i>Siphateles bicolor mohavensis</i>	Mohave tui chub	FE/SE		X
<i>Siphateles bicolor pectinifer</i>	Lahontan Lake tui chub		SSC	
<i>Siphateles bicolor snyderi</i>	Owens tui chub	FE/SE		X
<i>Siphateles bicolor ssp. 1</i>	Eagle Lake tui chub		SSC	X
<i>Siphateles bicolor ssp. 2</i>	High Rock Spring tui chub		SSC/ Extirpated	
<i>Siphateles bicolor thalassina</i>	Goose Lake tui chub		SSC	X
<i>Siphateles bicolor vaccaceps</i>	Cow Head tui chub		SSC	X
<b>Catostomidae (suckers)</b>				
<i>Catostomus fumeiventris</i>	Owens sucker		SSC	
<i>Catostomus microps</i>	Modoc sucker	FE/SE		
<i>Catostomus occidentalis lacusanserinus</i>	Goose Lake sucker		SSC	X
<i>Catostomus platyrhynchus</i>	mountain sucker		SSC	
<i>Catostomus santaanae</i>	Santa Ana sucker	FT	SSC	X
<i>Catostomus snyderi</i>	Klamath largescale sucker		SSC	
<i>Chasmistes brevirostris</i>	shortnose sucker	FE/SE		
<i>Deltistes luxatus</i>	Lost River sucker	FE/SE		
<i>Xyrauchen texanus</i>	razorback sucker	FE/SE		
<b>Cyprinodontidae (killifishes)</b>				
<i>Cyprinodon macularius</i>	desert pupfish	FE/SE		X
<i>Cyprinodon nevadensis amargosae</i>	Amargosa pupfish		SSC	X
<i>Cyprinodon nevadensis nevadensis</i>	Saratoga Springs pupfish		SSC	X
<i>Cyprinodon nevadensis shoshone</i>	Shoshone pupfish		SSC	X
<i>Cyprinodon radiusus</i>	Owens pupfish	FE/SE		X
<i>Cyprinodon salinus milleri</i>	Cottonball Marsh pupfish	ST		X
<i>Cyprinodon salinus salinus</i>	Salt Creek pupfish		SSC	X
<b>Gasterosteidae (sticklebacks)</b>				
<i>Gasterosteus aculeatus williamsoni</i>	unarmored threespine stickleback	FE/SE		X

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<b>Scorpaenidae (scorpionfishes)</b>				
<i>Sebastes alutus</i>	Pacific Ocean perch		R	
<i>Sebastes crameri</i>	darkblotched rockfish		R	
<i>Sebastes gilli</i>	bronzespotted rockfish		NT	
<i>Sebastes levis</i>	cowcod		NT/R	
<i>Sebastes paucispinis</i>	Bocaccio rockfish		R	
<i>Sebastes pinniger</i>	canary rockfish		NT/R	
<i>Sebastes ruberrimus</i>	yelloweye rockfish		NT/R	
<b>Polyprionidae (wreckfishes)</b>				
<i>Stereolepis gigas</i>	giant sea bass		NT	
<b>Epinephelidae (groupers)</b>				
<i>Mycteroperca jordani</i>	gulf grouper		NT	
<i>Mycteroperca xenarcha</i>	broomtail grouper		NT	
<b>Centrarchidae (sunfishes)</b>				
<i>Archoplites interruptus</i>	Sacramento perch		SSC	
<b>Gobiidae (gobies)</b>				
<i>Eucyclogobius newberryi</i>	tidewater goby	FE/SE	SSC	X
<b>Scombridae (mackerels, tunas, and bonitos)</b>				
<i>Thunnus orientalis</i>	bluefin tuna		O	
<b>Pleuronectidae (righteye flounders)</b>				
<i>Eopsetta jordani</i>	Petrale sole		R	
<b>Cottidae (sculpins)</b>				
<i>Cottus asperimus</i>	rough sculpin	ST		
<i>Cottus klamathensis macrops</i>	bigeye marbled sculpin		SSC	
<i>Cottus perplexus</i>	reticulate sculpin		SSC	
<b>Embiotocidae (surfperches)</b>				
<i>Hysterothorax traski pomo</i>	Russian River tule perch		SSC	
<b>Pomacentridae (damsel-fishes)</b>				
<i>Hypsypops rubicundus</i>	Garibaldi		NT	

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## Amphibians

Scientific Name	Common Name	Legal Status	Conservation Concern	Climate Vulnerable
<b>Ambystomatidae (mole salamanders)</b>				
<i>Ambystoma californiense</i>	California tiger salamander	FE/FT/ST		X
<i>Ambystoma macrodactylum croceum</i>	Santa Cruz long-toed salamander	FE/SE		
<i>Ambystoma macrodactylum sigillatum</i>	southern long-toed salamander		SSC	X
<b>Rhyacotritonidae (Olympic salamanders)</b>				
<i>Rhyacotriton variegatus</i>	southern torrent salamander		SSC	X
<b>Salamandridae (newts)</b>				
<i>Taricha rivularis</i>	red-bellied newt		SSC	
<i>Taricha torosa</i>	California newt (Monterey County and South)		SSC	
<b>Dicamptodontidae (Pacific giant salamanders)</b>				
<i>Dicamptodon ensatus</i>	California giant salamander		SSC	
<b>Plethodontidae (lungless salamanders)</b>				
<i>Aneides flavipunctatus niger</i>	Santa Cruz black salamander		SSC	
<i>Batrachoseps campi</i>	Inyo Mountains salamander		SSC	X
<i>Batrachoseps incognitus</i>	San Simeon slender salamander			X
<i>Batrachoseps luciae</i>	Santa Lucia Mountains slender salamander			X
<i>Batrachoseps major aridus</i>	desert slender salamander	FE/SE		
<i>Batrachoseps minor</i>	lesser slender salamander		SSC	X
<i>Batrachoseps relictus</i>	relictual slender salamander		SSC	X
<i>Batrachoseps simatus</i>	Kern Canyon slender salamander	ST		
<i>Batrachoseps stebbinsi</i>	Tehachapi slender salamander	ST		X
<i>Hydromantes brunus</i>	limestone salamander	ST		
<i>Hydromantes platycephalus</i>	Mount Lyell salamander			X
<i>Hydromantes shastae</i>	Shasta salamander	ST		
<i>Plethodon asupak</i>	Scott Bar salamander	ST		
<i>Plethodon dunni</i>	Dunn's salamander			X
<i>Plethodon stormi</i>	Siskiyou Mountains salamander	ST		
<b>Ascaphodae (tailed frogs)</b>				
<i>Ascaphus truei</i>	coastal tailed frog		SSC	X
<b>Scaphiopodidae (spadefoot toads)</b>				
<i>Scaphiopus couchii</i>	Couch's spadefoot		SSC	X
<i>Spea hammondi</i>	western spadefoot		SSC	

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<b>Bufonidae (true toads)</b>				
<i>Anaxyrus californicus</i>	arroyo toad	FE	SSC	X
<i>Anaxyrus canorus</i>	Yosemite toad	FT	SSC	X
<i>Anaxyrus exsul</i>	black toad	ST		X
<i>Incilus alvarius</i>	Sonoran Desert toad		SSC/ Extirpated	
<b>Ranidae</b>				
<i>Lithobates pipiens</i>	northern leopard frog		SSC	X
<i>Lithobates yavapaiensis</i>	lowland leopard frog		SSC/ Extirpated	X
<i>Rana aurora</i>	northern red-legged frog		SSC	X
<i>Rana boylei</i>	foothill yellow-legged frog		SSC	X
<i>Rana cascadae</i>	Cascades frog		SSC	X
<i>Rana draytonii</i>	California red-legged frog	FT	SSC	
<i>Rana muscosa</i>	southern mountain yellow-legged frog	FE/SE	-	X
<i>Rana pretiosa</i>	Oregon spotted frog	FT	SSC	
<i>Rana sierrae</i>	Sierra Nevada yellow-legged frog	FE/ST	-	X

## Reptiles

Scientific Name	Common Name	Legal Status	Conservation Concern	Climate Vulnerable
<b>Cheloniidae (green sea turtles and relatives)</b>				
<i>Caretta caretta</i>	loggerhead sea turtle (North Pacific)	FE	SSC	X
<i>Chelonia mydas</i>	green sea turtle	FT	SSC	X
<i>Lepidochelys olivacea</i>	olive ridley sea turtle	FT	SSC	X
<b>Dermochelyidae (leatherback turtles)</b>				
<i>Dermochelys coriacea</i>	leatherback sea turtle	FE	SSC	X
<b>Kinosternidae (musk and mud turtles)</b>				
<i>Kinosternon sonoriense</i>	Sonora mud turtle		SSC/ Extirpated	
<b>Emydidae (box and water turtles)</b>				
<i>Actinemys marmorata</i>	northern western pond turtle		SSC	
<i>Actinemys pallida</i>	southern western pond turtle		SSC	
<b>Testudinidae (land tortoises)</b>				
<i>Gopherus agassizii</i>	Mohave Desert tortoise	FT/ST		

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<b>Gekkonidae (geckos)</b>				
<i>Coleonyx switaki</i>	Switak's banded gecko	ST		
<i>Coleonyx variegatus abbotti</i>	San Diego banded gecko		SSC	
<b>Crotaphytidae (collared and leopard lizards)</b>				
<i>Gambelia copeii</i>	Cope's leopard lizard		SSC	
<i>Gambelia sila</i>	blunt-nosed leopard lizard	FE/SE		
<b>Phrynosomatidae (spiny lizards)</b>				
<i>Phrynosoma blainvillii</i>	Blainville's horned lizard		SSC	X
<i>Phrynosoma mcallii</i>	flat-tailed horned lizard	SCL	SSC	
<i>Uma inornata</i>	Coachella Valley fringe-toed lizard	FT/SE		
<i>Uma notata</i>	Colorado Desert fringe-toed lizard		SSC	
<i>Uma scoparia</i>	Mohave fringe-toed lizard		SSC	X
<b>Xantusiidae (night lizards)</b>				
<i>Xantusia gracilis</i>	sandstone night lizard		SSC	
<i>Xantusia riversiana</i>	island night lizard			X
<i>Xantusia sierrae</i>	Sierra night lizard		SSC	X
<b>Teiidae (whiptails and relatives)</b>				
<i>Aspidoscelis hyperythra</i>	orange-throated whiptail			X
<i>Aspidoscelis tigris stejnegeri</i>	San Diegan tiger whiptail		SSC	
<b>Anguidae (alligator lizards)</b>				
<i>Elgaria panamintina</i>	Panamint alligator lizard		SSC	X
<b>Anniellidae (legless lizards)</b>				
<i>Anniella alexanderae</i>	Temblor legless lizard		SSC	X
<i>Anniella campi</i>	Southern Sierra legless lizard		SSC	X
<i>Anniella grinneli</i>	Bakersfield legless lizard		SSC	X
<i>Anniella pulchra</i>	California legless lizard		SSC	X
<i>Anniella stebbinsi</i>	Southern California legless lizard		SSC	X
<b>Helodermatidae (venomous lizards)</b>				
<i>Heloderma suspectum</i>	Gila monster		SSC	X
<b>Boidae (boas)</b>				
<i>Charina umbratica</i>	southern rubber boa	ST		
<b>Colubridae (egg-laying snakes)</b>				
<i>Arizona elegans occidentalis</i>	California glossy snake		SSC	
<i>Coluber [= Masticophis] flagellum ruddocki</i>	San Joaquin coachwhip		SSC	
<i>Coluber [= Masticophis] fuliginosus</i>	Baja California coachwhip		SSC	

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<i>Coluber [= Masticophis] lateralis euryxanthus</i>	Alameda striped racer (whipsnake)	FT/ST		
<i>Contia longicauda</i>	forest sharp-tailed snake			X
<i>Diadophis punctatus regalis</i>	regal ring-necked snake		SSC	
<i>Salvadora hexalepis virgultea</i>	coast patch-nosed snake		SSC	X
<b>Natricidae (live-bearing snakes)</b>				
<i>Thamnophis gigas</i>	giant gartersnake	FT/ST		
<i>Thamnophis hammondi</i>	two-striped gartersnake		SSC	
<i>Thamnophis sirtalis infernalis</i>	California red-sided gartersnake (Ventura County and South)		SSC	
<i>Thamnophis sirtalis tetrataenia</i>	San Francisco gartersnake	FE/SE		
<b>Viperiidae (vipers)</b>				
<i>Crotalus ruber</i>	red diamond rattlesnake		SSC	

## Birds

Scientific Name	Common Name	Legal Status	Conservation Concern	Climate Vulnerable
<b>Anatidae (ducks, geese, and swans)</b>				
<i>Anser albifrons elgasi</i>	tule greater white-fronted goose		SSC	
<i>Aythya americana</i>	redhead		SSC	
<i>Branta bernicla</i>	brant		SSC	
<i>Bucephala islandica</i>	Barrow's goldeneye		SSC/ Extirpated (breeding)	
<i>Dendrocygna bicolor</i>	fulvous whistling-duck		SSC	
<i>Histrionicus histrionicus</i>	harlequin duck		SSC	
<b>Phasianidae (grouse and ptarmigan)</b>				
<i>Centrocercus urophasianus</i>	greater sage-grouse	FC (NE. CA pops)	SSC	X
<i>Dendragapus fuliginosus howardi</i>	Mount Pinos sooty grouse		SSC	
<i>Tympanuchus phasianellus columbianus</i>	Columbian sharp-tailed grouse		SSC/ Extirpated	
<b>Odontophoridae (partridge and quail)</b>				
<i>Callipepla californica catalinensis</i>	Catalina California quail		SSC	
<b>Gaviidae (loons)</b>				
<i>Gavia immer</i>	common loon		SSC/ Extirpated	

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<b>Diomedeidae (albatross)</b>				
<i>Phoebastria albatrus</i>	short-tailed albatross	FE	SSC	
<b>Hydrobatidae (storm petrels)</b>				
<i>Oceanodroma furcata</i>	fork-tailed storm-petrel		SSC	
<i>Oceanodroma homochroa</i>	ashy storm-petrel		SSC	X
<i>Oceanodroma melania</i>	black storm-petrel		SSC	
<b>Pelecaniidae (pelicans)</b>				
<i>Pelecanus erythrorhynchos</i>	American white pelican		SSC	X
<i>Pelecanus occidentalis californicus</i>	California brown pelican			X
<b>Phalacrocoracidae (cormorants)</b>				
<i>Phalacrocorax pelagicus</i>	pelagic cormorant			X
<i>Phalacrocorax penicillatus</i>	Brandt's cormorant			X
<b>Ardeidae (herons, egrets, and bitterns)</b>				
<i>Ixobrychus exilis</i>	least bittern		SSC	
<b>Ciconiidae (storks)</b>				
<i>Mycteria americana</i>	wood stork		SSC	
<b>Cathartidae (New World vultures)</b>				
<i>Gymnogyps californianus</i>	California condor	FE/SE		
<b>Accipitridae (hawks, kites, harriers, and eagles)</b>				
<i>Accipiter gentilis</i>	northern goshawk		SSC	
<i>Buteo swainsoni</i>	Swainson's hawk	ST		X
<i>Circus cyaneus</i>	northern harrier		SSC	
<i>Haliaeetus leucocephalus</i>	bald eagle	SE		
<b>Rallidae (rails, coots, and gallinules)</b>				
<i>Coturnicops noveboracensis</i>	yellow rail		SSC	X
<i>Laterallus jamaicensis coturniculus</i>	California black rail	ST		X
<i>Rallus obsoletus levipes</i>	Light-footed Ridgway's rail	FE/SE		X
<i>Rallus obsoletus obsoletus</i>	California Ridgway's rail	FE/SE		X
<i>Rallus obsoletus yumanensis</i>	Yuma Ridgway's rail	FE/SE		X
<b>Gruidae (cranes)</b>				
<i>Grus canadensis canadensis</i>	lesser sandhill crane		SSC	
<i>Grus canadensis tabida</i>	greater sandhill crane	ST		
<b>Charadriidae (plovers and relatives)</b>				
<i>Charadrius nivosus</i>	snowy plover (coastal population)	FT	SSC	X
<i>Charadrius nivosus</i>	snowy plover (interior population)		SSC	X
<i>Charadrius montanus</i>	mountain plover		SSC	

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<b>Haematopodidae (oystercatchers)</b>				
<i>Haematopus bachmani</i>	black oystercatcher			X
<b>Scolopacidae (sandpipers and relatives)</b>				
<i>Arenaria interpres</i>	ruddy turnstone			X
<i>Arenaria melanocephala</i>	black turnstone			X
<i>Calidris alba</i>	sanderling			X
<i>Calidris canutus</i>	red knot			X
<i>Calidris virgata</i>	surfbird			X
<i>Tringa incana</i>	wandering tattler			X
<b>Laridae (gulls and terns)</b>				
<i>Chlidonias niger</i>	black tern		SSC	X
<i>Gelochelidon nilotica</i>	gull-billed tern		SSC	X
<i>Rynchops niger</i>	black skimmer		SSC	X
<i>Sternula antillarum browni</i>	California least tern	FE/SE		X
<i>Thalasseus elegans</i>	elegant tern			X
<i>Thalasseus maximus</i>	royal tern			X
<b>Alcidae (auklets, puffins, and relatives)</b>				
<i>Brachyramphus marmoratus</i>	marbled murrelet	FT/SE		X
<i>Cephus columba</i>	pigeon guillemot			X
<i>Cerorhinca monocerata</i>	rhinoceros auklet			X
<i>Fratercula cirrhata</i>	tufted puffin		SSC	X
<i>Ptychoramphus aleuticus</i>	Cassin's auklet		SSC	X
<i>Synthliboramphus craveri</i>	Craveri's murrelet			X
<i>Synthliboramphus hypoleucus</i>	Guadalupe murrelet	ST		X
<i>Synthliboramphus scrippsi</i>	Scripps's murrelet	FC/ST		X
<i>Uria aalge</i>	common murre			X
<b>Cuculidae (cuckoos and relatives)</b>				
<i>Coccyzus americanus occidentalis</i>	western yellow-billed cuckoo	FT/SE		X
<b>Strigidae (owls)</b>				
<i>Asio flammeus</i>	short-eared owl		SSC	
<i>Asio otus</i>	long-eared owl		SSC	
<i>Athene cunicularia</i>	burrowing owl		SSC	
<i>Micrathene whitneyi</i>	elf owl	SE		X
<i>Strix nebulosa</i>	great gray owl	SE		X
<i>Strix occidentalis caurina</i>	northern spotted owl	FT/SCL	SSC	
<i>Strix occidentalis occidentalis</i>	California spotted owl		SSC	

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<b>Apodidae (swifts)</b>				
<i>Chaetura vauxi</i>	Vaux's swift		SSC	
<i>Cypseloides niger</i>	black swift		SSC	
<b>Picidae (woodpeckers)</b>				
<i>Colaptes chrysoides</i>	gilded flicker	SE		
<i>Melanerpes uropygialis</i>	gila woodpecker	SE		
<b>Tyrannidae (tyrant flycatchers)</b>				
<i>Contopus cooperi</i>	olive-sided flycatcher		SSC	
<i>Empidonax traillii</i>	willow flycatcher	SE		
<i>Empidonax traillii extimus</i>	southwestern willow flycatcher	FE/SE		
<i>Myiarchus tyrannulus</i>	brown-crested flycatcher			X
<i>Pyrocephalus rubinus</i>	vermillion flycatcher		SSC	
<b>Laniidae (shrikes)</b>				
<i>Lanius ludovicianus</i>	loggerhead shrike		SSC	
<i>Lanius ludovicianus mearnsi</i>	San Clemente loggerhead shrike	FE		
<b>Vireonidae (vireos)</b>				
<i>Vireo bellii arizonae</i>	Arizona Bell's vireo	SE		X
<i>Vireo bellii pusillus</i>	least Bell's vireo	FE/SE		X
<i>Vireo huttoni unitti</i>	Catalina Hutton's vireo		SSC	
<i>Vireo vicinior</i>	gray vireo		SSC	
<b>Hirundinidae (swallows)</b>				
<i>Progne subis</i>	purple martin		SSC	
<i>Riparia riparia</i>	bank swallow	ST		
<b>Troglodytidae (wrens)</b>				
<i>Campylorhynchus brunneicapillus sandiegensis</i>	coastal cactus wren (San Diego and Orange Counties)		SSC	
<i>Cistothorus palustris clarkae</i>	Clark's marsh wren		SSC	
<i>Thryomanes bewickii leucophrys</i>	San Clemente Bewick's wren		SSC/ Extirpated	
<b>Sylviidae (gnatcatchers)</b>				
<i>Polioptila californica californica</i>	coastal California gnatcatcher	FT	SSC	
<b>Mimidae (mockingbirds and thrashers)</b>				
<i>Toxostoma bendirei</i>	Bendire's thrasher		SSC	X
<i>Toxostoma crissale</i>	Crissal thrasher		SSC	
<i>Toxostoma lecontei</i>	Le Conte's thrasher (San Joaquin population)		SSC	

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<b>Parulidae (wood-warblers)</b>				
<i>Geothlypis trichas sinuosa</i>	saltmarsh common yellowthroat/San Francisco common yellowthroat		SSC	X
<i>Icteria virens</i>	yellow-breasted chat		SSC	
<i>Oreothlypis luciae</i>	Lucy's warbler		SSC	
<i>Setophaga petechia</i>	yellow warbler		SSC	
<b>Emberizidae (sparrows, buntings, warblers, and relatives)</b>				
<i>Aimophila ruficeps obscura</i>	Santa Cruz Island rufous-crowned sparrow		SSC	
<i>Ammodramus savannarum</i>	grasshopper sparrow		SSC	
<i>Artemisospiza belli clementeae</i>	San Clemente Bell's sparrow	FT	SSC	
<i>Melospiza melodia graminea</i>	Channel Island song sparrow		SSC	
<i>Melospiza melodia maillardi</i>	song sparrow ("Modesto" population)		SSC	X
<i>Melospiza melodia maxillaris</i>	Suisun song sparrow		SSC	X
<i>Melospiza melodia pusillula</i>	Alameda song sparrow		SSC	X
<i>Melospiza melodia samuelis</i>	San Pablo (= Samuels) song sparrow		SSC	X
<i>Melozona crissalis eremophilus</i>	Inyo California towhee	FT/SE		X
<i>Passerculus sandwichensis alaudinus</i>	Bryant's savannah sparrow		SSC	
<i>Passerculus sandwichensis beldingi</i>	Belding's savannah sparrow	SE		
<i>Passerculus sandwichensis rostratus</i>	large-billed savannah sparrow		SSC	
<i>Pipilo maculatus clementae</i>	San Clemente spotted towhee		SSC	
<i>Piranga rubra</i>	summer tanager		SSC	
<i>Poocetes gramineus affinis</i>	Oregon vesper sparrow		SSC	
<b>Icteridae (blackbirds)</b>				
<i>Agelaius phoeniceus aciculatus</i>	Kern red-winged blackbird		SSC	
<i>Agelaius tricolor</i>	tricolored blackbird	SCL	SSC	
<i>Icterus parisorum</i>	Scott's Oriole			X
<i>Xanthocephalus xanthocephalus</i>	yellow-headed blackbird		SSC	
<b>Fringillidae (finches and relatives)</b>				
<i>Leucosticte tephrocotis</i>	Gray-crowned Rosy-Finch			X

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## Mammals

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<b>Talpidae (moles)</b>				
<i>Scapanus latimanus parvus</i>	Alameda Island mole		SSC	
<b>Soricidae (shrews)</b>				
<i>Sorex ornatus relictus</i>	Buena Vista Lake shrew	FE		
<i>Sorex ornatus salarius</i>	Monterey shrew, Salinas ornate shrew		SSC	
<i>Sorex ornatus salicornicus</i>	Southern California salt marsh shrew		SSC	
<i>Sorex ornatus sinuosus</i>	Suisun shrew		SSC	
<i>Sorex ornatus willeti</i>	Santa Catalina Island shrew		SSC	
<i>Sorex vagrans halicoetes</i>	salt marsh wandering shrew		SSC	
<i>Sorex vagrans paludivagus</i>	Monterey vagrant shrew		SSC	
<b>Phyllostomidae (leaf-nosed bats)</b>				
<i>Choeronycteris mexicana</i>	Mexican long-tongued bat		SSC	
<i>Leptonycteris yerbabuena</i>	lesser long-nosed bat	FE		
<i>Macrotus californicus</i>	California leaf-nosed bat		SSC	
<b>Vespertilionidae (evening bats)</b>				
<i>Antrozous pallidus</i>	pallid bat		SSC	
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	SCL	SSC	
<i>Myotis evotis</i>	long-eared bat		SSC	
<i>Myotis occultus</i>	Arizona myotis		SSC	
<i>Myotis thysanodes</i>	fringed myotis		SSC	
<i>Myotis velifer</i>	cave myotis		SSC	
<i>Myotis volans</i>	long-legged myotis		SSC	
<b>Molossidae (free-tailed bats)</b>				
<i>Nyctinomops macrotis</i>	big free-tailed bat		SSC	
<b>Ochotonidae (pikas)</b>				
<i>Ochotona princeps</i>	American pika			X
<b>Leporidae (rabbits and hares)</b>				
<i>Brachylagus idahoensis</i>	pygmy rabbit		SSC	
<i>Lepus americanus klamathensis</i>	Oregon snowshoe hare		SSC	
<i>Lepus americanus tahoensis</i>	Sierra Nevada snowshoe hare		SSC	
<i>Sylvilagus bachmani riparius</i>	riparian brush rabbit	FE/SE		
<b>Aplodontidae (mountain beavers)</b>				
<i>Aplodontia rufa californica</i>	Sierra Nevada mountain beaver		SSC	

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<i>Aplodontia rufa humboldtiana</i>	Humboldt mountain beaver		SSC	
<i>Aplodontia rufa nigra</i>	Point Arena mountain beaver	FE	SSC	
<i>Aplodontia rufa phaea</i>	Point Reyes mountain beaver		SSC	
<b>Sciuridae (squirrels and relatives)</b>				
<i>Ammospermophilus nelsoni</i>	Nelson's antelope squirrel	ST		
<i>Callospermophilus lateralis bernardinus</i>	San Bernardino golden-mantled ground squirrel		SSC	
<i>Glaucomyssabrinus californicus</i>	San Bernardino flying squirrel		SSC	X
<i>Neotamias [=Tamias] alpinus</i>	alpine chipmunk		SSC	X
<i>Spermophilus [=Xerospermophilus] mohavensis</i>	Mohave ground squirrel	ST		
<i>Tamias speciosus callipeplus</i>	Mount Pinos lodgepole chipmunk		SSC	
<i>Tamias speciosus speciosus</i>	lodgepole chipmunk		SSC	
<i>Xerospermophilus tereticaudus chlorus</i>	Palm Springs round-tailed ground squirrel		SSC	
<i>Urocitellus mollis</i>	Piute ground squirrel		SSC	
<b>Castoridae (beavers)</b>				
<i>Castor canadensis frondator (incl. repentinus)</i>	Sonora beaver		SSC	
<b>Heteromyidae (kangaroo rats, pocket mice, and kangaroo mice)</b>				
<i>Dipodomys agilis</i>	agile (=Pacific) kangaroo rat		SSC	
<i>Dipodomys californicus eximius</i>	Marysville California kangaroo rat		SSC	
<i>Dipodomys heermanni arenae</i>	Lompoc kangaroo rat		SSC	
<i>Dipodomys heermanni berkeleyensis</i>	Berkeley kangaroo rat		SSC	
<i>Dipodomys heermanni dixonii</i>	Merced kangaroo rat		SSC	
<i>Dipodomys heermanni goldmani</i>	Salinas kangaroo rat		SSC	
<i>Dipodomys heermanni heermanni</i>	Heermann's kangaroo rat		SSC	
<i>Dipodomys heermanni morroensis</i>	Morro Bay kangaroo rat	FE/SE		
<i>Dipodomys ingens</i>	giant kangaroo rat	FE/SE		
<i>Dipodomys merriami collinus</i>	Earthquake Merriam's kangaroo rat		SSC	
<i>Dipodomys merriami parvus</i>	San Bernardino kangaroo rat	FE		
<i>Dipodomys merriami trinidadensis</i>	Valle de la Trinidad kangaroo rat		SSC	
<i>Dipodomys nitratooides</i>	San Joaquin kangaroo rat		SSC	
<i>Dipodomys nitratooides exilis</i>	Fresno kangaroo rat	FE/SE		
<i>Dipodomys nitratooides nitratooides</i>	Tipton kangaroo rat	FE/SE		
<i>Dipodomys simulans</i>	Dulzura kangaroo rat		SSC	
<i>Dipodomys stephensi</i>	Stephens' kangaroo rat	FE/ST		

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<i>Dipodomys venustus</i>	narrow-faced kangaroo rat		SSC	
<i>Perognathus alticolus alticolus</i>	white-eared pocket mouse		SSC	
<i>Perognathus alticolus inexpectatus</i>	Tehachapi pocket mouse		SSC	
<i>Perognathus inornatus</i>	San Joaquin pocket mouse		SSC	
<i>Perognathus longimembris bangsi</i>	Palm Springs pocket mouse		SSC	
<i>Perognathus longimembris brevinasus</i>	Los Angeles pocket mouse		SSC	
<i>Perognathus longimembris internationalis</i>	Jacumba pocket mouse		SSC	
<i>Perognathus longimembris pacificus</i>	Pacific pocket mouse	FE	SSC	
<i>Perognathus parvus xanthanotus</i>	yellow-eared pocket mouse		SSC	
<b>Muridae (mice, rats, and voles)</b>				
<i>Arborimus pomo</i>	Sonoma tree vole		SSC	X
<i>Microtus californicus halophilus</i>	Monterey vole		SSC	X
<i>Microtus californicus mohavensis</i>	Mohave river vole		SSC	
<i>Microtus californicus paludicola</i>	marsh vole		SSC	X
<i>Microtus californicus sanpabloensis</i>	San Pablo vole		SSC	X
<i>Microtus californicus scirpensis</i>	Amargosa vole	FE/SE		
<i>Microtus californicus stephensi</i>	Stephens' California vole		SSC	
<i>Microtus longicaudus bernardinus</i>	San Bernardino Mountains long-tailed vole		SSC	
<i>Neotoma fuscipes riparia</i>	riparian (=San Joaquin Valley) woodrat	FE	SSC	
<i>Onychomys torridus ramona</i>	southern grasshopper mouse		SSC	
<i>Onychomys torridus tularensis</i>	Tulare grasshopper mouse		SSC	
<i>Reithrodontomys megalotis distichlis</i>	Salinas harvest mouse		SSC	
<i>Reithrodontomys megalotis limicola</i>	southern marsh harvest mouse		SSC	
<i>Reithrodontomys raviventris</i>	salt-marsh harvest mouse	FE/SE		
<b>Dipodidae (jumping mice)</b>				
<i>Zapus trinotatus orarius</i>	Point Reyes jumping mouse		SSC	
<b>Erethizontidae</b>				
<i>Erethizon dorsatum</i>	porcupine		SSC	
<b>Felidae</b>				
<i>Panthera onca</i>	jaguar	FE	SSC/ Extirpated	
<b>Canidae (foxes, wolves, and coyotes)</b>				
<i>Canis lupus</i>	gray wolf	FE/SE		
<i>Urocyon littoralis catalinae</i>	Santa Catalina Island fox	FE/ST		
<i>Urocyon littoralis clementae</i>	San Clemente Island fox	ST		
<i>Urocyon littoralis dickeyi</i>	San Nicolas Island fox	ST		

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<i>Urocyon littoralis littoralis</i>	San Miguel Island fox	FE/ST		
<i>Urocyon littoralis santacruzae</i>	Santa Cruz Island fox	FE/ST		
<i>Urocyon littoralis santarosae</i>	Santa Rosa Island fox	FE/ST		
<i>Vulpes macrotis macrotis</i>	San Jacinto kit fox		SSC/ Extirpated	
<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	FE/ST		
<i>Vulpes vulpes necator</i>	Sierra Nevada red fox	ST		X
<i>Vulpes vulpes patwin</i>	Sacramento Valley red fox		SSC	
<b>Ursidae (bears)</b>				
<i>Ursus arctos</i>	grizzly bear	FT	SSC/ Extirpated	
<b>Otariidae (sea lions and fur seals)</b>				
<i>Arctocephalus townsendi</i>	Guadalupe fur-seal	FT/ST		
<i>Eumetopias jubatus</i>	steller (=northern) sea-lion	FT	SSC	
<b>Procyonidae (racoons and relatives)</b>				
<i>Bassariscus astutus octavus</i>	ringtail		SSC	
<i>Bassariscus astutus willetti</i>	ringtail		SSC	
<i>Bassariscus astutus yumanensis</i>	ringtail		SSC	
<b>Mustelidae (weasels and relatives)</b>				
<i>Enhydra lutris nereis</i>	southern sea otter	FT		
<i>Gulo gulo</i>	California wolverine	ST		X
<i>Lontra canadensis sonora</i>	southwestern river otter		SSC	
<i>Martes caurina [=americana]</i>	Pacific marten		SSC	X
<i>Mustela frenata inyoensis</i>	Inyo long-tailed weasel		SSC	
<i>Mustela frenata xanthogenys</i>	San Joaquin long-tailed weasel		SSC	
<i>Pekania [=Martes] pennanti</i>	fisher - West Coast DPS	FPL/SCL	SSC	
<i>Taxidea taxus</i>	American badger		SSC	
<b>Mephitidae (skunks)</b>				
<i>Spilogale gracilis amphialus</i>	Channel Islands spotted skunk		SSC	
<b>Balaenopteridae (baleen whales)</b>				
<i>Balaenoptera borealis</i>	sei whale	FE	SSC	
<i>Balaenoptera musculus</i>	blue whale	FE	SSC	
<i>Balaenoptera physalus</i>	fin whale	FE	SSC	
<i>Eubalaena japonica</i>	North Pacific right whale	FE	SSC	
<i>Megaptera novaeangliae</i>	humpback whale	FE	SSC	
<b>Delphinidae</b>				
<i>Orcinus orca</i>	killer whale (southern resident DPS)	FE	SSC	

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<b>Physeteridea (sperm whales)</b>				
<i>Physeter macrocephalus</i>	sperm whale	FE	SSC	
<b>Antilocapridae (pronghorn)</b>				
<i>Antilocapra americana</i>	pronghorn		SSC	
<i>Antilocapra americana sonoriensis</i>	Sonoran pronghorn	FE	SSC / Extirpated	
<b>Cervidae (deer)</b>				
<i>Cervus elaphus nannodes</i>	tule elk		SSC	
<b>Bovidae (sheep and relatives)</b>				
<i>Ovis canadensis</i>	bighorn sheep		SSC	
<i>Ovis canadensis nelsoni</i>	Peninsular bighorn sheep DPS	FE/ST		
<i>Ovis canadensis nelsoni</i>	desert bighorn sheep		SSC	
<i>Ovis canadensis sierrae</i>	Sierra Nevada bighorn sheep	FE/SE		

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# Plants

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<i>Abronia alpina</i>	Ramshaw Meadows abronia	FC		1B.1
<i>Abronia umbellata</i> var. <i>breviflora</i>	pink sand-verbena			1B.1
<i>Abronia villosa</i> var. <i>aurita</i>	chaparral sand-verbena			1B.1
<i>Acanthomintha duttonii</i>	San Mateo thorn-mint	FE/SE		1B.1
<i>Acanthomintha ilicifolia</i>	San Diego thorn-mint	FT/SE		1B.1
<i>Acanthoscyphus parishii</i> var. <i>goodmaniana</i>	Cushenbury oxytheca	FE		1B.1
<i>Acmispon argophyllus</i> var. <i>adsurgens</i>	San Clemente Island bird's-foot trefoil	SE		1B.1
<i>Acmispon argophyllus</i> var. <i>niveus</i>	Santa Cruz Island bird's-foot trefoil	SE		4.2
<i>Acmispon dendroideus</i> var. <i>traskiae</i>	San Clemente Island lotus	FT/SE		1B.3
<i>Acmispon prostratus</i>	Nuttall's acmispon			1B.1
<i>Acmispon rubriflorus</i>	red-flowered bird's-foot-trefoil			1B.1
<i>Agrostis lacuna-vernalis</i>	vernal pool bent grass			1B.1
<i>Allium marvinii</i>	Yucaipa onion			1B.1
<i>Allium munzii</i>	Munz's onion	FE/ST		1B.1
<i>Allium yosemitense</i>	Yosemite onion	SR		1B.3
<i>Alopecurus aequalis</i> var. <i>sonomensis</i>	Sonoma alopecurus	FE		1B.1
<i>Ambrosia pumila</i>	San Diego ambrosia	FE		1B.1
<i>Amsinckia grandiflora</i>	large-flowered fiddleneck	FE/SE		1B.1
<i>Ancistrocarphus keilii</i>	Santa Ynez groundstar			1B.1
<i>Arabis mcdonaldiana</i>	Mcdonald's rockcress	FE		1B.1
<i>Arctostaphylos bakeri</i> ssp. <i>bakeri</i>	Baker's manzanita	SR		1B.1
<i>Arctostaphylos bakeri</i> ssp. <i>sublaevis</i>	The Cedars manzanita	SR		1B.2
<i>Arctostaphylos confertiflora</i>	Santa Rosa Island manzanita	FE		1B.2
<i>Arctostaphylos crustacea</i> ssp. <i>eastwoodiana</i>	Eastwood's brittle-leaf manzanita			1B.1
<i>Arctostaphylos densiflora</i>	Vine Hill manzanita	SE		1B.1
<i>Arctostaphylos franciscana</i>	Franciscan manzanita	FE		1B.1
<i>Arctostaphylos glandulosa</i> ssp. <i>crassifolia</i>	Del Mar manzanita	FE		1B.1
<i>Arctostaphylos hookeri</i> ssp. <i>hearstiorum</i>	Hearsts' manzanita	SE		1B.2
<i>Arctostaphylos imbricata</i>	San Bruno Mountain manzanita	SE		1B.1
<i>Arctostaphylos montana</i> ssp. <i>ravenii</i>	Presidio manzanita	FE/SE		1B.1

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<i>Arctostaphylos morroensis</i>	Morro manzanita	FT		1B.1
<i>Arctostaphylos myrtifolia</i>	Ione manzanita	FT		1B.2
<i>Arctostaphylos ohloneana</i>	Ohlone manzanita			1B.1
<i>Arctostaphylos pacifica</i>	Pacific manzanita	SE		1B.2
<i>Arctostaphylos pajaroensis</i>	Pajaro manzanita			1B.1
<i>Arctostaphylos pallida</i>	pallid manzanita	FT/SE		1B.1
<i>Arctostaphylos purissima</i>	La Purisima manzanita			1B.1
<i>Arctostaphylos rainbowensis</i>	Rainbow manzanita			1B.1
<i>Arctostaphylos stanfordiana</i> ssp. <i>decumbens</i>	Rincon Ridge manzanita			1B.1
<i>Arctostaphylos stanfordiana</i> ssp. <i>raichei</i>	Raiche's manzanita			1B.1
<i>Arctostaphylos tomentosa</i> ssp. <i>daciticola</i>	dacite manzanita			1B.1
<i>Arenaria paludicola</i>	marsh sandwort	FE/SE		1B.1
<i>Astragalus agnicidus</i>	Humboldt milk-vetch	SE		1B.1
<i>Astragalus albens</i>	Cushenbury milk-vetch	FE		1B.1
<i>Astragalus atratus</i> var. <i>mensanus</i>	Darwin Mesa milk-vetch			1B.1
<i>Astragalus brauntonii</i>	Braunton's milk-vetch	FE		1B.1
<i>Astragalus claranus</i>	Clara Hunt's milk-vetch	FE/ST		1B.1
<i>Astragalus deanei</i>	Dean's milk-vetch			1B.1
<i>Astragalus hornii</i> var. <i>hornii</i>	Horn's milk-vetch			1B.1
<i>Astragalus jaegerianus</i>	Lane Mountain milk-vetch	FE		1B.1
<i>Astragalus johannis-howellii</i>	Long Valley milk-vetch	SR		1B.2
<i>Astragalus lentiginosus</i> var. <i>coachellae</i>	Coachella Valley milk-vetch	FE		1B.2
<i>Astragalus lentiginosus</i> var. <i>piscinensis</i>	Fish Slough milk-vetch	FT		1B.1
<i>Astragalus lentiginosus</i> var. <i>sesquimetalis</i>	Sodaville milk-vetch	SE		1B.1
<i>Astragalus magdalenae</i> var. <i>peirsonii</i>	Peirson's milk-vetch	FT/SE		1B.2
<i>Astragalus mohavensis</i> var. <i>hemigyus</i>	curved-pod milk-vetch			1B.1
<i>Astragalus monoensis</i>	Mono milk-vetch	SR		1B.2
<i>Astragalus nyensis</i>	Nye milk-vetch			1B.1
<i>Astragalus pachypus</i> var. <i>jaegeri</i>	Jaeger's milk-vetch			1B.1
<i>Astragalus preussii</i> var. <i>laxiflorus</i>	Lancaster milk-vetch			1B.1
<i>Astragalus pycnostachyus</i> var. <i>lanosissimus</i>	Ventura Marsh milk-vetch	FE/SE		1B.1
<i>Astragalus tener</i> var. <i>ferrisiae</i>	Ferris' milk-vetch			1B.1
<i>Astragalus tener</i> var. <i>titi</i>	coastal dunes milk-vetch	FE/SE		1B.1

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<i>Astragalus traskiae</i>	Trask's milk-vetch	SR		1B.2
<i>Astragalus tricarinatus</i>	triple-ribbed milk-vetch	FE		1B.2
<i>Atriplex argentea</i> var. <i>longitrichoma</i>	Pahrump orache			1B.1
<i>Atriplex coronata</i> var. <i>notatior</i>	San Jacinto Valley crownscale	FE		1B.1
<i>Atriplex minuscula</i>	lesser saltscale			1B.1
<i>Atriplex parishii</i>	Parish's brittle-scale			1B.1
<i>Atriplex tularensis</i>	Bakersfield smallscale	SE		1A
<i>Baccharis malibuensis</i>	Malibu baccharis			1B.1
<i>Baccharis vanessae</i>	Encinitas baccharis	FT/SE		1B.1
<i>Bensoniella oregona</i>	bensoniella	SR		1B.1
<i>Berberis nevinii</i>	Nevin's barberry	FE/SE		1B.1
<i>Berberis pinnata</i> ssp. <i>insularis</i>	island barberry	FE/SE		1B.2
<i>Blennosperma bakeri</i>	Sonoma sunshine	FE/SE		1B.1
<i>Blennosperma nanum</i> var. <i>robustum</i>	Point Reyes blennosperma	SR		1B.2
<i>Blepharizonia plumosa</i>	big tarplant			1B.1
<i>Bloomeria clevelandii</i>	San Diego goldenstar			1B.1
<i>Bloomeria humilis</i>	dwarf goldenstar	SR		1B.2
<i>Boechea constancei</i>	Constance's rockcress			1B.1
<i>Boechea hoffmannii</i>	Hoffmann's rockcress	FE		1B.1
<i>Boechea rollei</i>	Rolle's rockcress			1B.1
<i>Boechea rubicundula</i>	Mount Day rockcress			1B.1
<i>Boechea shevockii</i>	Shevock's rockcress			1B.1
<i>Boechea ultraalsa</i>	Snow Mountain rockcress			1B.1
<i>Brodiaea filifolia</i>	thread-leaved brodiaea	FT/SE		1B.1
<i>Brodiaea insignis</i>	Kaweah brodiaea	SE		1B.2
<i>Brodiaea matsonii</i>	Sulphur Creek brodiaea			1B.1
<i>Brodiaea orcuttii</i>	Orcutt's brodiaea			1B.1
<i>Brodiaea pallida</i>	Chinese Camp brodiaea	FT/SE		1B.1
<i>Brodiaea rosea</i>	Indian Valley brodiaea	SE		1B.1
<i>Bryoria spiralifera</i>	twisted horsehair lichen			1B.1
<i>Calamagrostis foliosa</i>	leafy reed grass	SR		4.2
<i>California macrophylla</i>	round-leaved filaree			1B.1
<i>Calochortus dunnii</i>	Dunn's mariposa-lily	SR		1B.2

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<i>Calochortus excavatus</i>	Inyo County star-tulip			1B.1
<i>Calochortus persistens</i>	Siskiyou mariposa-lily	FC/SR		1B.2
<i>Calochortus syntrophus</i>	Callahan's mariposa-lily			1B.1
<i>Calochortus tiburonensis</i>	Tiburon mariposa-lily	FT/ST		1B.1
<i>Calycadenia villosa</i>	dwarf calycadenia			1B.1
<i>Calyptridium parryi</i> var. <i>hesseae</i>	Santa Cruz Mountains pussypaws			1B.1
<i>Calyptridium pulchellum</i>	Mariposa pussypaws	FT		1B.1
<i>Calystegia sepium</i> ssp. <i>binghamiae</i>	Santa Barbara morning-glory			1B.1
<i>Calystegia stebbinsii</i>	Stebbins' morning-glory	FE/SE		1B.1
<i>Camissonia benitensis</i>	San Benito evening-primrose	FT		1B.1
<i>Carex tompkinsii</i>	Tompkins' sedge	SR		4.3
<i>Carpenteria californica</i>	tree-anemone	ST		1B.2
<i>Castilleja affinis</i> var. <i>neglecta</i>	Tiburon paintbrush	FE/ST		1B.2
<i>Castilleja ambigua</i> var. <i>insalutata</i>	pink Johnny-nip			1B.1
<i>Castilleja ambigua</i> var. <i>meadii</i>	Mead's owls-clover			1B.1
<i>Castilleja campestris</i> var. <i>succulenta</i>	succulent owl's-clover	FT/SE		1B.2
<i>Castilleja cinerea</i>	ash-gray paintbrush	FT		1B.2
<i>Castilleja gleasoni</i>	Mt. Gleason paintbrush	SR		1B.2
<i>Castilleja grisea</i>	San Clemente Island paintbrush	FT/SE		1B.3
<i>Castilleja mollis</i>	soft-leaved paintbrush	FE		1B.1
<i>Castilleja uliginosa</i>	Pitkin Marsh paintbrush	SE		1A
<i>Caulanthus amplexicaulis</i> var. <i>barbarae</i>	Santa Barbara jewelflower			1B.1
<i>Caulanthus californicus</i>	California jewelflower	FE/SE		1B.1
<i>Ceanothus confusus</i>	Rincon Ridge ceanothus			1B.1
<i>Ceanothus ferrisiae</i>	Coyote ceanothus	FE		1B.1
<i>Ceanothus foliosus</i> var. <i>vineatus</i>	Vine Hill ceanothus			1B.1
<i>Ceanothus hearstiorum</i>	Hearsts' ceanothus	SR		1B.2
<i>Ceanothus maritimus</i>	maritime ceanothus	SR		1B.2
<i>Ceanothus masonii</i>	Mason's ceanothus	SR		1B.2
<i>Ceanothus ophiochilus</i>	Vail Lake ceanothus	FT/SE		1B.1
<i>Ceanothus roderickii</i>	Pine Hill ceanothus	FE		1B.2
<i>Centromadia parryi</i> ssp. <i>australis</i>	southern tarplant			1B.1
<i>Centromadia parryi</i> ssp. <i>congdonii</i>	Congdon's tarplant			1B.1

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<i>Centromadia pungens ssp. laevis</i>	smooth tarplant			1B.1
<i>Cercocarpus traskiae</i>	Catalina Island mountain-mahogany	FE/SE		1B.1
<i>Chaenactis glabriuscula var. orcuttiana</i>	Orcutt's pincushion			1B.1
<i>Chamaesyce hooveri</i>	Hoover's spurge	FT		1B.2
<i>Chlorogalum purpureum var. purpureum</i>	Santa Lucia purple amole	FT		1B.1
<i>Chlorogalum purpureum var. reductum</i>	Camatta Canyon amole	FT/SR		1B.1
<i>Chloropyron maritimum ssp. maritimum</i>	salt marsh bird's-beak	FE/SE		1B.2
<i>Chloropyron molle ssp. hispidum</i>	hispid salty bird's-beak			1B.1
<i>Chloropyron molle ssp. molle</i>	soft salty bird's-beak	FE/SR		1B.2
<i>Chloropyron palmatum</i>	palmate-bracted salty bird's-beak	FE/SE		1B.1
<i>Chorizanthe howellii</i>	Howell's spineflower	FE/ST		1B.2
<i>Chorizanthe orcuttiana</i>	Orcutt's spineflower	FE/SE		1B.1
<i>Chorizanthe parryi var. fernandina</i>	San Fernando Valley spineflower	FC/SE		1B.1
<i>Chorizanthe parryi var. parryi</i>	Parry's spineflower			1B.1
<i>Chorizanthe pungens var. hartwegiana</i>	Ben Lomond spineflower	FE		1B.1
<i>Chorizanthe pungens var. pungens</i>	Monterey spineflower	FT		1B.2
<i>Chorizanthe robusta var. hartwegii</i>	Scotts Valley spineflower	FE		1B.1
<i>Chorizanthe robusta var. robusta</i>	robust spineflower	FE		1B.1
<i>Chorizanthe valida</i>	Sonoma spineflower	FE/SE		1B.1
<i>Cirsium ciliolatum</i>	Ashland thistle	SE		2B.1
<i>Cirsium crassicaule</i>	slough thistle			1B.1
<i>Cirsium fontinale var. fontinale</i>	Crystal Springs fountain thistle	FE/SE		1B.1
<i>Cirsium fontinale var. obispoense</i>	San Luis Obispo fountain thistle	FE/SE		1B.2
<i>Cirsium hydrophilum var. hydrophilum</i>	Suisun thistle	FE		1B.1
<i>Cirsium rhotophilum</i>	surf thistle	ST		1B.2
<i>Cirsium scariosum var. loncholepis</i>	La Graciosa thistle	FE/ST		1B.1
<i>Clarkia amoena ssp. whitneyi</i>	Whitney's farewell-to-spring			1B.1
<i>Clarkia borealis ssp. arida</i>	Shasta clarkia			1B.1
<i>Clarkia concinna ssp. raichei</i>	Raiche's red ribbons			1B.1
<i>Clarkia franciscana</i>	Presidio clarkia	FE/SE		1B.1
<i>Clarkia imbricata</i>	Vine Hill clarkia	FE/SE		1B.1
<i>Clarkia lingulata</i>	Merced clarkia	SE		1B.1
<i>Clarkia mosquinii</i>	Mosquin's clarkia			1B.1

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<i>Clarkia speciosa ssp. immaculata</i>	Pismo clarkia	FE/SR		1B.1
<i>Clarkia springvillensis</i>	Springville clarkia	FT/SE		1B.2
<i>Clarkia tembloriensis ssp. calientensis</i>	Vasek's clarkia			1B.1
<i>Cordylanthus nidularius</i>	Mt. Diablo bird's-beak	SR		1B.1
<i>Cordylanthus rigidus ssp. littoralis</i>	seaside bird's-beak	SE		1B.1
<i>Cordylanthus tenuis ssp. capillaris</i>	Pennell's bird's-beak	FE/SR		1B.2
<i>Corethrogyne filaginifolia var. incana</i>	San Diego sand aster			1B.1
<i>Corethrogyne filaginifolia var. linifolia</i>	Del Mar Mesa sand aster			1B.1
<i>Crocanthemum greenei</i>	island rush-rose	FT		1B.2
<i>Croton wigginsii</i>	Wiggins' croton	SR		2B.2
<i>Cryptantha ganderi</i>	Gander's cryptantha			1B.1
<i>Cryptantha roosiorum</i>	bristlecone cryptantha	SR		1B.2
<i>Cryptantha traskiae</i>	Trask's cryptantha			1B.1
<i>Cylindropuntia californica var. californica</i>	snake cholla			1B.1
<i>Dedeckera eurekaensis</i>	July gold	SR		1B.3
<i>Deinandra arida</i>	Red Rock tarplant	SR		1B.2
<i>Deinandra bacigalupii</i>	Livermore tarplant			1B.2
<i>Deinandra conjugens</i>	Otay tarplant	FT/SE		1B.1
<i>Deinandra halliana</i>	Hall's tarplant			1B.1
<i>Deinandra increscens ssp. villosa</i>	Gaviota tarplant	FE/SE		1B.1
<i>Deinandra minthornii</i>	Santa Susana tarplant	SR		1B.2
<i>Deinandra mohavensis</i>	Mojave tarplant	SE		1B.3
<i>Delphinium bakeri</i>	Baker's larkspur	FE/SE		1B.1
<i>Delphinium hesperium ssp. cuyamaca</i>	Cuyamaca larkspur	SR		1B.2
<i>Delphinium luteum</i>	golden larkspur	FE/SR		1B.1
<i>Delphinium variegatum ssp. kinkiense</i>	San Clemente Island larkspur	FE/SE		1B.1
<i>Delphinium variegatum ssp. thornei</i>	Thorne's royal larkspur			1B.1
<i>Dieteria asteroides var. lagunensis</i>	Mount Laguna aster	SR		2B.1
<i>Dithyrea maritima</i>	beach spectaclepod	ST		1B.1
<i>Dodecahema leptoceras</i>	slender-horned spineflower	FE/SE		1B.1
<i>Downingia concolor var. brevior</i>	Cuyamaca Lake downingia	SE		1B.1
<i>Draba asterophora var. macrocarpa</i>	Cup Lake draba			1B.1
<i>Drymocallis cuneifolia var. cuneifolia</i>	wedgeleaf woodbeauty			1B.1

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<i>Dudleya abramsii</i> ssp. <i>setchellii</i>	Santa Clara Valley dudleya	FE		1B.1
<i>Dudleya blochmaniae</i> ssp. <i>blochmaniae</i>	Blochman's dudleya			1B.1
<i>Dudleya blochmaniae</i> ssp. <i>insularis</i>	Santa Rosa Island dudleya			1B.1
<i>Dudleya brevifolia</i>	short-leaved dudleya	SE		1B.1
<i>Dudleya cymosa</i> ssp. <i>agourensis</i>	Agoura Hills dudleya	FT		1B.2
<i>Dudleya cymosa</i> ssp. <i>marcescens</i>	marcescent dudleya	FT/SR		1B.2
<i>Dudleya cymosa</i> ssp. <i>ovatifolia</i>	Santa Monica dudleya	FT		1B.1
<i>Dudleya densiflora</i>	San Gabriel Mountains dudleya			1B.1
<i>Dudleya gnoma</i>	munchkin dudleya			1B.1
<i>Dudleya nesiotica</i>	Santa Cruz Island dudleya	FT/SR		1B.1
<i>Dudleya parva</i>	Conejo dudleya	FT		1B.2
<i>Dudleya stolonifera</i>	Laguna Beach dudleya	FT/ST		1B.1
<i>Dudleya traskiae</i>	Santa Barbara Island dudleya	FE/SE		1B.2
<i>Dudleya verityi</i>	Verity's dudleya	FT		1B.1
<i>Echinocereus engelmannii</i> var. <i>howei</i>	Howe's hedgehog cactus			1B.1
<i>Enceliopsis nudicaulis</i> var. <i>corrugata</i>	Ash Meadows daisy	FT		3.3
<i>Eremalche kernensis</i>	Kern mallow	FE		1B.1
<i>Eremogone ursina</i>	Big Bear Valley sandwort	FT		1B.2
<i>Eriastrum brandegeae</i>	Brandegee's eriastrum			1B.1
<i>Eriastrum densifolium</i> ssp. <i>sanctorum</i>	Santa Ana River woollystar	FE/SE		1B.1
<i>Eriastrum erterrae</i>	Lime Ridge eriastrum			1B.1
<i>Eriastrum rosamondense</i>	Rosamond eriastrum			1B.1
<i>Eriastrum tracyi</i>	Tracy's eriastrum	SR		3.2
<i>Ericameria fasciculata</i>	Eastwood's goldenbush			1B.1
<i>Ericameria palmeri</i> var. <i>palmeri</i>	Palmer's goldenbush			1B.1
<i>Erigeron calvus</i>	bald daisy			1B.1
<i>Erigeron parishii</i>	Parish's daisy	FT		1B.1
<i>Eriodictyon altissimum</i>	Indian Knob mountainbalm	FE/SE		1B.1
<i>Eriodictyon capitatum</i>	Lompoc yerba santa	FE		1B.2
<i>Eriogonum alexandrae</i>	Alexander's buckwheat			1B.1
<i>Eriogonum alpinum</i>	Trinity buckwheat	SE		1B.2
<i>Eriogonum apricum</i> var. <i>apricum</i>	Ione buckwheat	FE/SE		1B.1
<i>Eriogonum apricum</i> var. <i>prostratum</i>	Irish Hill buckwheat	FE/SE		1B.1

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<i>Eriogonum butterworthianum</i>	Butterworth's buckwheat	SR		1B.3
<i>Eriogonum callistum</i>	Tehachapi buckwheat			1B.1
<i>Eriogonum crocatum</i>	conejo buckwheat	SR		1B.2
<i>Eriogonum evanidum</i>	vanishing wild buckwheat			1B.1
<i>Eriogonum giganteum</i> var. <i>compactum</i>	Santa Barbara Island buckwheat	SR		1B.3
<i>Eriogonum grande</i> var. <i>timorum</i>	San Nicolas Island buckwheat	SE		1B.1
<i>Eriogonum kelloggii</i>	Kellogg's buckwheat	FC/SE		1B.2
<i>Eriogonum kennedyi</i> var. <i>austromontanum</i>	southern mountain buckwheat	FT		1B.2
<i>Eriogonum kennedyi</i> var. <i>pinicola</i>	Kern buckwheat			1B.1
<i>Eriogonum microthecum</i> var. <i>lacus-ursi</i>	Bear Lake buckwheat			1B.1
<i>Eriogonum nudum</i> var. <i>decurrens</i>	Ben Lomond buckwheat			1B.1
<i>Eriogonum nudum</i> var. <i>psychicola</i>	Antioch Dunes buckwheat			1B.1
<i>Eriogonum ovalifolium</i> var. <i>vineum</i>	Cushenbury buckwheat	FE		1B.1
<i>Eriogonum thornei</i>	Thorne's buckwheat	SE		1B.2
<i>Eriogonum truncatum</i>	Mt. Diablo buckwheat			1B.1
<i>Eriogonum twisselmannii</i>	Twisselmann's buckwheat	SR		1B.2
<i>Eriogonum umbellatum</i> var. <i>lautum</i>	Scott Valley buckwheat			1B.1
<i>Eriophyllum congdonii</i>	Congdon's woolly sunflower	SR		1B.2
<i>Eriophyllum lanatum</i> var. <i>hallii</i>	Fort Tejon woolly sunflower			1B.1
<i>Eriophyllum latilobum</i>	San Mateo woolly sunflower	FE/SE		1B.1
<i>Eryngium aristulatum</i> var. <i>hooveri</i>	Hoover's button-celery			1B.1
<i>Eryngium aristulatum</i> var. <i>parishii</i>	San Diego button-celery	FE/SE		1B.1
<i>Eryngium constancei</i>	Loch Lomond button-celery	FE/SE		1B.1
<i>Eryngium pendletonense</i>	Pendleton button-celery			1B.1
<i>Eryngium racemosum</i>	Delta button-celery	SE		1B.1
<i>Erysimum capitatum</i> var. <i>angustatum</i>	Contra Costa wallflower	FE/SE		1B.1
<i>Erysimum menziesii</i>	Menzies' wallflower	FE/SE		1B.1
<i>Erysimum teretifolium</i>	Santa Cruz wallflower	FE/SE		1B.1
<i>Erythranthe carsonensis</i>	Carson Valley monkeyflower			1B.1
<i>Erythranthe hardhamiae</i>	Santa Lucia monkeyflower			1B.1
<i>Erythranthe rhodopetra</i>	Red Rock Canyon monkeyflower			1B.1
<i>Erythranthe taylorii</i>	Shasta limestone monkeyflower			1B.1
<i>Eschscholzia lemmonii</i> ssp. <i>kernensis</i>	Tejon poppy			1B.1

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<i>Eschscholzia rhombipetala</i>	diamond-petaled California poppy			1B.1
<i>Euphorbia jaegeri</i>	Orocopia Mountains spurge			1B.1
<i>Fremontodendron decumbens</i>	Pine Hill flannelbush	FE		1B.2
<i>Fremontodendron mexicanum</i>	Mexican flannelbush	FE/SR		1B.1
<i>Fritillaria biflora</i> var. <i>ineziana</i>	Hillsborough chocolate lily			1B.1
<i>Fritillaria gentneri</i>	Gentner's fritillary	FE		1B.1
<i>Fritillaria lanceolata</i> var. <i>tristulis</i>	Marin checker lily			1B.1
<i>Fritillaria roderickii</i>	Roderick's fritillary	SE		1B.1
<i>Fritillaria striata</i>	striped adobe-lily	ST		1B.1
<i>Galium angustifolium</i> ssp. <i>borregoense</i>	Borrego bedstraw	SR		1B.3
<i>Galium buxifolium</i>	box bedstraw	FE		1B.2
<i>Galium californicum</i> ssp. <i>sierrae</i>	El Dorado bedstraw	FE		1B.2
<i>Galium catalinense</i> ssp. <i>acrispum</i>	San Clemente Island bedstraw	SE		1B.2
<i>Geothallus tuberosus</i>	Campbell's liverwort			1B.1
<i>Gilia capitata</i> ssp. <i>chamissonis</i>	blue coast gilia			1B.1
<i>Gilia capitata</i> ssp. <i>tomentosa</i>	woolly-headed gilia			1B.1
<i>Gilia tenuiflora</i> ssp. <i>arenaria</i>	Monterey gilia	FE		1B.2
<i>Gilia tenuiflora</i> ssp. <i>hoffmannii</i>	Hoffmann's slender-flowered gilia	FE		1B.1
<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	SE		1B.2
<i>Grimmia vaginulata</i>	vaginulate grimmia			1B.1
<i>Grindelia fraxinipratensis</i>	Ash Meadows gumplant	FT		1B.2
<i>Harmonia doris-nilesiae</i>	Niles' harmonia			1B.1
<i>Harmonia guggolziorum</i>	Guggolz's harmonia			1B.1
<i>Hazardia orcuttii</i>	Orcutt's hazardia	ST		1B.1
<i>Helianthus inexpectatus</i>	Newhall sunflower			1B.1
<i>Helianthus niveus</i> ssp. <i>tephrodes</i>	Algodones Dunes sunflower	SE		1B.2
<i>Hesperocyparis abramsiana</i> var. <i>abramsiana</i>	Santa Cruz cypress	FE/SE		1B.2
<i>Hesperocyparis abramsiana</i> var. <i>butanoensis</i>	Butano Ridge cypress	FE/SE		1B.2
<i>Hesperocyparis forbesii</i>	Tecate cypress			1B.1
<i>Hesperocyparis goveniana</i>	Gowen cypress	FT		1B.2
<i>Hesperocyparis stephensonii</i>	Cuyamaca cypress			1B.1
<i>Hesperolinon congestum</i>	Marin western flax	FT/ST		1B.1

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<i>Hesperolinon didymocarpum</i>	Lake County western flax	SE		1B.2
<i>Heterotheca sessiliflora ssp. sessiliflora</i>	beach goldenaster			1B.1
<i>Hoita strobilina</i>	Loma Prieta hoita			1B.1
<i>Holmgrenanthe petrophila</i>	rock lady	SR		1B.2
<i>Holocarpha macradenia</i>	Santa Cruz tarplant	FT/SE		1B.1
<i>Horkelia cuneata var. puberula</i>	mesa horkelia			1B.1
<i>Horkelia cuneata var. sericea</i>	Kellogg's horkelia			1B.1
<i>Horkelia daucifolia var. indicta</i>	Jepson's horkelia			1B.1
<i>Horkelia hendersonii</i>	Henderson's horkelia			1B.1
<i>Horkelia wilderae</i>	Barton Flats horkelia			1B.1
<i>Hosackia crassifolia var. otayensis</i>	Otay Mountain lotus			1B.1
<i>Howellia aquatilis</i>	water howellia	FT		2B.2
<i>Isocoma arguta</i>	Carquinez goldenbush			1B.1
<i>Ivesia aperta var. canina</i>	Dog Valley ivesia			1B.1
<i>Ivesia callida</i>	Tahquitz ivesia	SR		1B.3
<i>Ivesia webberi</i>	Webber's ivesia	FT		1B.1
<i>Juglans hindsii</i>	Northern California black walnut			1B.1
<i>Juncus digitatus</i>	finger rush			1B.1
<i>Juncus leiospermus var. leiospermus</i>	Red Bluff dwarf rush			1B.1
<i>Lagophylla dichotoma</i>	forked hare-leaf			1B.1
<i>Lasthenia burkei</i>	Burke's goldfields	FE/SE		1B.1
<i>Lasthenia conjugens</i>	Contra Costa goldfields	FE		1B.1
<i>Lasthenia glabrata ssp. coulteri</i>	Coulter's goldfields			1B.1
<i>Lathyrus biflorus</i>	two-flowered pea			1B.1
<i>Lavatera assurgentiflora ssp. assurgentiflora</i>	island mallow			1B.1
<i>Lavatera assurgentiflora ssp. glabra</i>	southern island mallow			1B.1
<i>Layia carnosa</i>	beach layia	FE/SE		1B.1
<i>Layia discoidea</i>	rayless layia			1B.1
<i>Layia heterotricha</i>	pale-yellow layia			1B.1
<i>Layia leucopappa</i>	Comanche Point layia			1B.1
<i>Legenere limosa</i>	legenere			1B.1
<i>Leptosiphon croceus</i>	coast yellow leptosiphon			1B.1
<i>Leptosiphon rosaceus</i>	rose leptosiphon			1B.1

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<i>Lessingia germanorum</i>	San Francisco lessingia	FE/SE		1B.1
<i>Lewisia congdonii</i>	Congdon's lewisia	SR		1B.3
<i>Lewisia serrata</i>	saw-toothed lewisia			1B.1
<i>Lilaeopsis masonii</i>	Mason's lilaeopsis	SR		1B.1
<i>Lilium maritimum</i>	coast lily			1B.1
<i>Lilium occidentale</i>	western lily	FE/SE		1B.1
<i>Lilium pardalinum ssp. pitkinense</i>	Pitkin Marsh lily	FE/SE		1B.1
<i>Limnanthes alba ssp. parishii</i>	Parish's meadowfoam	SE		1B.2
<i>Limnanthes bakeri</i>	Baker's meadowfoam	SR		1B.1
<i>Limnanthes douglasii ssp. ornduffii</i>	Ornduff's meadowfoam			1B.1
<i>Limnanthes douglasii ssp. sulphurea</i>	Point Reyes meadowfoam	SE		1B.2
<i>Limnanthes floccosa ssp. californica</i>	Butte County meadowfoam	FE/SE		1B.1
<i>Limnanthes vinculans</i>	Sebastopol meadowfoam	FE/SE		1B.1
<i>Lithophragma maximum</i>	San Clemente Island woodland star	FE/SE		1B.1
<i>Lomatium stebbinsii</i>	Stebbins' lomatium			1B.1
<i>Lupinus citrinus var. deflexus</i>	Mariposa lupine	ST		1B.2
<i>Lupinus milo-bakeri</i>	Milo Baker's lupine	ST		1B.1
<i>Lupinus nipomensis</i>	Nipomo Mesa lupine	FE/SE		1B.1
<i>Lupinus padre-crowleyi</i>	Father Crowley's lupine	SR		1B.2
<i>Lupinus tidestromii</i>	Tidestrom's lupine	FE/SE		1B.1
<i>Lycium brevipes var. hassei</i>	Santa Catalina Island desert-thorn			1B.1
<i>Macrocystis sp.</i>	giant kelp			X
<i>Madia radiata</i>	showy golden madia			1B.1
<i>Malacothamnus abbottii</i>	Abbott's bush-mallow			1B.1
<i>Malacothamnus clementinus</i>	San Clemente Island bush-mallow	FE/SE		1B.1
<i>Malacothamnus fasciculatus var. nesioticus</i>	Santa Cruz Island bush-mallow	FE/SE		1B.1
<i>Malacothrix indecora</i>	Santa Cruz Island malacothrix	FE		1B.1
<i>Malacothrix junakii</i>	Junak's malacothrix			1B.1
<i>Malacothrix squalida</i>	island malacothrix	FE		1B.1
<i>Meconella oregana</i>	Oregon meconella			1B.1
<i>Mimulus fremontii var. vandenbergensis</i>	Vandenberg monkeyflower	PFE		1B.1
<i>Monardella australis ssp. jokerstii</i>	Jokerst's monardella			1B.1
<i>Monardella undulata ssp. arguelloensis</i>	Point Arguello monardella			1B.1

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<i>Monardella venosa</i>	veiny monardella			1B.1
<i>Monardella viminea</i>	willowy monardella	FE/SE		1B.1
<i>Monolopia congdonii</i>	San Joaquin woollythreads	FE		1B.2
<i>Nasturtium gambelii</i>	Gambel's water cress	FE/ST		1B.1
<i>Navarretia fossalis</i>	spreading navarretia	FT		1B.1
<i>Navarretia gowenii</i>	Lime Ridge navarretia			1B.1
<i>Navarretia leucocephala ssp. bakeri</i>	Baker's navarretia			1B.1
<i>Navarretia leucocephala ssp. pauciflora</i>	few-flowered navarretia	FE/ST		1B.1
<i>Navarretia leucocephala ssp. plieantha</i>	many-flowered navarretia	FE/SE		1B.2
<i>Navarretia myersii ssp. deminuta</i>	small pincushion navarretia			1B.1
<i>Navarretia myersii ssp. myersii</i>	pincushion navarretia			1B.1
<i>Navarretia ojaiensis</i>	Ojai navarretia			1B.1
<i>Navarretia prostrata</i>	prostrate vernal pool navarretia			1B.1
<i>Navarretia setiloba</i>	Piute Mountains navarretia			1B.1
<i>Nemacladus twisselmannii</i>	Twisselmann's nemacladus	SR		1B.2
<i>Neostapfia colusana</i>	Colusa grass	FT/SE		1B.1
<i>Nitrophila mohavensis</i>	Amargosa nitrophila	FE/SE		1B.1
<i>Noccaea fendleri ssp. californica</i>	Kneeland Prairie pennycress	FE		1B.1
<i>Nolina interrata</i>	Dehesa nolina	SE		1B.1
<i>Oenothera californica ssp. eurekaensis</i>	Eureka Dunes evening-primrose	FE		1B.2
<i>Oenothera deltoides ssp. howellii</i>	Antioch Dunes evening-primrose	FE/SE		1B.1
<i>Oenothera wolfii</i>	Wolf's evening-primrose			1B.1
<i>Opuntia basilaris var. treleasei</i>	Bakersfield cactus	FE/SE		1B.1
<i>Orcuttia californica</i>	California Orcutt grass	FE/SE		1B.1
<i>Orcuttia inaequalis</i>	San Joaquin Valley Orcutt grass	FT/SE		1B.1
<i>Orcuttia pilosa</i>	hairy Orcutt grass	FE/SE		1B.1
<i>Orcuttia tenuis</i>	slender Orcutt grass	FT/SE		1B.1
<i>Orcuttia viscida</i>	Sacramento Orcutt grass	FE/SE		1B.1
<i>Ornithostaphylos oppositifolia</i>	Baja California birdbush	SE		2B.1
<i>Orthocarpus pachystachyus</i>	Shasta orthocarpus			1B.1
<i>Packera ganderi</i>	Gander's ragwort	SR		1B.2
<i>Packera layneae</i>	Layne's ragwort	FT		1B.2
<i>Panicum acuminatum var. thermale</i>	Geysers panicum	SE		1B.2

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<i>Paronychia ahartii</i>	Ahart's paronychia			1B.1
<i>Pedicularis dudleyi</i>	Dudley's lousewort	SR		1B.2
<i>Penstemon albomarginatus</i>	white-margined beardtongue			1B.1
<i>Penstemon bicolor ssp. roseus</i>	rosy two-toned beardtongue			1B.1
<i>Pentachaeta aurea ssp. allenii</i>	Allen's pentachaeta			1B.1
<i>Pentachaeta bellidiflora</i>	white-rayed pentachaeta	FE/SE		1B.1
<i>Pentachaeta lyonii</i>	Lyon's pentachaeta	FE/SE		1B.1
<i>Phacelia argentea</i>	sand dune phacelia			1B.1
<i>Phacelia cookei</i>	Cooke's phacelia			1B.1
<i>Phacelia insularis var. insularis</i>	northern Channel Islands phacelia	FE		1B.2
<i>Phacelia monoensis</i>	Mono County phacelia			1B.1
<i>Phacelia parishii</i>	Parish's phacelia			1B.1
<i>Phacelia stellaris</i>	Brand's star phacelia			1B.1
<i>Phlox hirsuta</i>	Yreka phlox	FE/SE		1B.2
<i>Physaria kingii ssp. bernardina</i>	San Bernardino Mountains bladderpod	FE		1B.1
<i>Phyllospadix sp.</i>	surfgrass		NT	
<i>Pinus radiata</i>	Monterey pine			1B.1
<i>Piperia elegans ssp. decurtata</i>	Point Reyes rein orchid			1B.1
<i>Piperia yadonii</i>	Yadon's rein orchid	FE		1B.1
<i>Plagiobothrys diffusus</i>	San Francisco popcornflower	SE		1B.1
<i>Plagiobothrys hystriculus</i>	bearded popcornflower			1B.1
<i>Plagiobothrys parishii</i>	Parish's popcornflower			1B.1
<i>Plagiobothrys strictus</i>	Calistoga popcornflower	FE		1B.1
<i>Pleuropogon hooverianus</i>	North Coast semaphore grass	ST		1B.1
<i>Poa atropurpurea</i>	San Bernardino blue grass	FE		1B.2
<i>Poa napensis</i>	Napa blue grass	FE/SE		1B.1
<i>Pogogyne abramsii</i>	San Diego mesa mint	FE/SE		1B.1
<i>Pogogyne clareana</i>	Santa Lucia mint	SE		1B.2
<i>Pogogyne nudiuscula</i>	Otay Mesa mint	FE/SE		1B.1
<i>Polygonum hickmanii</i>	Scotts Valley polygonum	FE/SE		1B.1
<i>Polygonum polygaloides ssp. esotericum</i>	Modoc County knotweed			1B.1
<i>Postelsia sp.</i>	sea palm		NT	
<i>Potentilla hickmanii</i>	Hickman's cinquefoil	FE/SE		1B.1

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<i>Pseudobahia bahiifolia</i>	Hartweg's golden sunburst	FE/SE		1B.1
<i>Pseudobahia peirsonii</i>	San Joaquin adobe sunburst	FT/SE		1B.1
<i>Puccinellia howellii</i>	Howell's alkali grass			1B.1
<i>Puccinellia parishii</i>	Parish's alkali grass			1B.1
<i>Quercus dumosa</i>	Nuttall's scrub oak			1B.1
<i>Rhynchospora californica</i>	California beaked-rush			1B.1
<i>Rorippa subumbellata</i>	Tahoe yellow cress	FC/SE		1B.1
<i>Rosa minutifolia</i>	small-leaved rose	SE		2B.1
<i>Sanicula maritima</i>	adobe sanicle	SR		1B.1
<i>Sanicula saxatilis</i>	rock sanicle	SR		1B.2
<i>Sedella leiocarpa</i>	Lake County stonecrop	FE/SE		1B.1
<i>Sedum laxum ssp. eastwoodiae</i>	Red Mountain stonecrop	FC		1B.2
<i>Sedum oblancoletum</i>	Applegate stonecrop			1B.1
<i>Sibara filifolia</i>	Santa Cruz Island winged-rockcress	FE		1B.1
<i>Sidalcea covillei</i>	Owens Valley checkerbloom	SE		1B.1
<i>Sidalcea hickmanii ssp. anomala</i>	Cuesta Pass checkerbloom	SR		1B.2
<i>Sidalcea hickmanii ssp. napensis</i>	Napa checkerbloom			1B.1
<i>Sidalcea hickmanii ssp. parishii</i>	Parish's checkerbloom	SR		1B.2
<i>Sidalcea keckii</i>	Keck's checkerbloom	FE		1B.1
<i>Sidalcea oregana ssp. valida</i>	Kenwood Marsh checkerbloom	FE/SE		1B.1
<i>Sidalcea pedata</i>	bird-foot checkerbloom	FE/SE		1B.1
<i>Sidalcea stipularis</i>	Scadden Flat checkerbloom	SE		1B.1
<i>Silene campanulata ssp. campanulata</i>	Red Mountain catchfly	SE		4.2
<i>Sisyrinchium hitchcockii</i>	Hitchcock's blue-eyed grass			1B.1
<i>Solanum wallacei</i>	Wallace's nightshade			1B.1
<i>Sphaerocarpos drewei</i>	bottle liverwort			1B.1
<i>Streptanthus albidus ssp. albidus</i>	Metcalf Canyon jewelflower	FE		1B.1
<i>Streptanthus glandulosus ssp. niger</i>	Tiburon jewelflower	FE/SE		1B.1
<i>Stylocline citroleum</i>	oil neststraw			1B.1
<i>Stylocline masonii</i>	Mason's neststraw			1B.1
<i>Suaeda californica</i>	California seablite	FE		1B.1
<i>Sulcaria isidiifera</i>	splitting yarn lichen			1B.1
<i>Swallenia alexandrae</i>	Eureka Valley dune grass	FE		1B.2

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<i>Taraxacum californicum</i>	California dandelion	FE		1B.1
<i>Thelypodium stenopetalum</i>	slender-petaled thelypodium	FE/SE		1B.1
<i>Thermopsis macrophylla</i>	Santa Ynez false lupine	SR		1B.3
<i>Thysanocarpus conchuliferus</i>	Santa Cruz Island fringe-pod	FE		1B.2
<i>Trichostema austromontanum ssp. compactum</i>	Hidden Lake bluecurls	FT		1B.1
<i>Trifolium amoenum</i>	showy rancheria clover	FE		1B.1
<i>Trifolium buckwestiorum</i>	Santa Cruz clover			1B.1
<i>Trifolium polyodon</i>	Pacific Grove clover	SR		1B.1
<i>Trifolium siskyouense</i>	Siskiyou clover			1B.1
<i>Trifolium trichocalyx</i>	Monterey clover	FE/SE		1B.1
<i>Tropidocarpum californicum</i>	Kings gold			1B.1
<i>Tropidocarpum capparideum</i>	caper-fruited tropidocarpum			1B.1
<i>Tuctoria greenei</i>	Greene's tuctoria	FE/SR		1B.1
<i>Tuctoria mucronata</i>	Crampton's tuctoria or Solano grass	FE/SE		1B.1
<i>Verbena californica</i>	Red Hills vervain	FT/ST		1B.1
<i>Verbesina dissita</i>	big-leaved crownbeard	FT/ST		1B.1
<i>Zostera sp.</i>	eelgrass		NT	

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