



**California Department of Fish and Wildlife  
California Natural Diversity Database (CNDDDB)**

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# **SPECIAL ANIMALS LIST**

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## Special Animals

“Special Animals” is a broad term used to refer to all the animal taxa tracked by the Department of Fish and Wildlife’s California Natural Diversity Database (CNDDDB), regardless of their legal or protection status. This list is also referred to as the list of “species at risk” or “special status species”. The Special Animals list includes species, subspecies, or Evolutionarily Significant Units (ESU) where at least one of the following conditions applies:

- Officially listed or proposed for listing under the State and/or Federal Endangered Species Acts;
- Taxa considered by the Department to be a Species of Special Concern (SSC);
- Taxa which meet the criteria for listing, even if not currently included on any list, as described in Section 15380 of the California Environmental Quality Act Guidelines (more information on CEQA is available at: <http://resources.ca.gov/ceqa/guidelines>);
- Taxa that are biologically rare, very restricted in distribution, or declining throughout their range but not currently threatened with extirpation;
- Population(s) in California that may be peripheral to the major portion of a taxon’s range but are threatened with extirpation in California;
- Taxa closely associated with a habitat that is declining in California at a significant rate (e.g. wetlands, riparian, vernal pools, old growth forests, desert aquatic systems, native grasslands, valley shrubland habitats, etc.);
- Taxa designated as a special status, sensitive, or declining species by other state or federal agencies, or a non-governmental organization (NGO) and determined by the CNDDDB to be rare, restricted, declining, or threatened across their range in California.

**Taxa marked with a “+” to the left of the scientific name are those for which there is location information in the CNDDDB Geographic Information System (GIS), as of the date of this list.**

**Taxa with a “Yes” in the “Notes” column have more information in an end note at the back of the list.**

Additional information on the CNDDDB is available on the Department of Fish and Wildlife website at: <https://www.wildlife.ca.gov/Data/CNDDDB>

Additional information on other Department resource management programs is available at: <https://www.wildlife.ca.gov/Conservation>

The Nongame Wildlife Program has additional information on wildlife habitat, threats, and survey guidelines at: <https://www.wildlife.ca.gov/Explore/Organization/WLB/Nongame>

## NatureServe Element Ranking

All Heritage Programs, such as the California Natural Diversity Database (CNDDDB) use the same ranking methodology, originally developed by The Nature Conservancy and now maintained and recently revised by NatureServe. It includes a **Global rank** (G-rank), describing the rank for a given taxon over its entire distribution, and a **State rank** (S-rank), describing the rank for the taxon over its state distribution. For subspecies and varieties, there is also a “T” rank describing the global rank for the infraspecific taxon. The next page of this document details the criteria used to assign element ranks, from G1 to G5 for the Global rank and from S1 to S5 for the State rank. Procedurally, state programs such as the CNDDDB develop the State ranks. The Global ranks are determined collaboratively among the Heritage Programs for the states/provinces containing the species. NatureServe then checks for consistency and logical errors at the national level. Because the units of conservation may include non-taxonomic biological entities such as populations or ecological communities, NatureServe refers to the targets of biological conservation as elements rather than taxa.

An element rank is assigned using standard criteria and rank definitions. This standardization makes the ranks comparable between organisms and across political boundaries. NatureServe has developed a “rank calculator” to help increase repeatability and transparency of the ranking process. The three main categories that are taken into consideration when assigning an element rank are rarity, threats, and trends. Within these three categories, various factors are considered, including:

- Range extent, area of occupancy, population size, total number of occurrences, environmental specificity and number of good occurrences (ranked A or B).
- Overall threat impact as well as intrinsic vulnerability (if threats are unknown).
- Long-term and short-term trends.

Detailed information on the newest element ranking methodology can be found here: <http://www.natureserve.org/biodiversity-science/publications/natureserve-conservation-status-assessments-methodology-assigning>

With the above considerations in mind, refer below for the numerical definitions for G1-5 and S1-5. An element’s ranking status may be adjusted up or down depending upon the considerations above.

## Element Ranking

### GLOBAL RANKING

The *global rank* (G-rank) is a reflection of the overall status of an element throughout its global range. **Both Global and State ranks represent a letter and number score that reflects a combination of Rarity, Threat, and Trend factors, with weighting being heavier on Rarity than the other two.**

### SPECIES OR NATURAL COMMUNITY LEVEL

- G1 = Critically Imperiled**—At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
- G2 = Imperiled**—At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
- G3 = Vulnerable**—At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
- G4 = Apparently Secure**—Uncommon but not rare; some cause for long-term concern due to declines or other factors.
- G5 = Secure**—Common; widespread and abundant.

### SUBSPECIES LEVEL

Taxa which are subspecies or varieties receive a taxon rank (**T-rank**) attached to their G-rank. Where the G-rank reflects the condition of the entire species, the T-rank reflects the global situation of just the subspecies. For example: the Point Reyes mountain beaver, *Aplodontia rufa* ssp. *phaea* is ranked G5T2. The G-rank refers to the whole species range i.e., *Aplodontia rufa*. The T-rank refers only to the global condition of ssp. *phaea*.

### STATE RANKING

The *state rank* (S-rank) is assigned much the same way as the global rank, but state ranks refer to the imperilment status only within California's state boundaries.

- S1 = Critically Imperiled**—Critically imperiled in the state because of extreme rarity (often 5 or fewer populations) or because of factor(s) such as very steep declines making it especially vulnerable to extirpation from the state.
- S2 = Imperiled**—Imperiled in the state because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the state.
- S3 = Vulnerable**—Vulnerable in the state due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation from the state.
- S4 = Apparently Secure**—Uncommon but not rare in the state; some cause for long-term concern due to declines or other factors.
- S5 = Secure**—Common, widespread, and abundant in the state.

### Notes:

1.	Other considerations used when ranking a species or natural community include the pattern of distribution of the element on the landscape, fragmentation of the population/stands, and historical extent as compared to its modern range. It is important to take a <b>bird's eye or aerial view</b> when ranking sensitive elements rather than simply counting element occurrences.		3.	Other symbols:  GH All sites are <b>historical</b> ; the element has not been seen for at least 20 years, but suitable habitat still exists (SH = All California sites are historical).  GX All sites are <b>extirpated</b> ; this element is extinct in the wild (SX = All California sites are extirpated).  GXC Extinct in the wild; exists in cultivation.  G1Q The element is very rare, but there are <b>taxonomic questions</b> associated with it.  T Rank applies to a subspecies or variety.
2.	Uncertainty about the rank of an element is expressed in two major ways:  By expressing the ranks as a <b>range</b> of values: e.g., S2S3 means the rank is somewhere between S2 and S3.  By adding a "?" to the rank: e.g., S2? This represents more certainty than S2S3, but less certainty than S2.			

## Animal Element Occurrences and Mapping

### **What is an Element Occurrence?**

An Element Occurrence (EO) is a location where the element has been documented to occur. It is a concept developed and applied within the NatureServe natural heritage network. **An EO is not a population**, but it may indicate that a population is present in that area; and a single population may be represented by more than one EO. An EO is based upon the source documents available to us at the time it was mapped. Both the mapped feature and the text portion of EOs are updated as new information becomes available.

### **Element Occurrence (EO) Definitions vary by taxa:**

The EO definition refers to the types of information we map. For most animal taxa, the CNDDDB is interested in information that indicates the presence of a resident population. However, for many migratory birds, the CNDDDB tracks detections of nest sites or behaviors indicating reproduction is occurring at the site. Details about avian detections are available in our “Submitting Avian Detections” document: <https://www.wildlife.ca.gov/Data/CNDDDB/Submitting-Data> . For other taxa where we track only a certain part of their range or life history, the area or life stage is indicated on the list under the “Comment” column.

### **Mapping Conventions:**

Our information is mapped to balance precision and uncertainty, based upon the source materials used to determine the location of the element occurrence (EO). Data with precise location information are mapped with 80m radius circles or specific polygons. Data with vague location information are mapped with non-specific circular features or non-specific polygons. Non-specific features indicate that the species was found somewhere within the mapped area, but the exact location was unknown. Generally, observations/collections within ¼ mile and/or within continuous habitat are combined into a single element occurrence (EO).

## Taxonomic References

### **Taxonomic References and Sources of Additional Information:**

The CNDDDB follows current published taxonomy for animals as recognized by the scientific organizations listed below. The CNDDDB reviews publications that propose new taxonomy and nomenclature for CNDDDB-tracked species, and evaluates whether these proposals are recognized by the larger scientific community. The CNDDDB makes every effort to use the best available science in the taxonomy we use, but different experts may recognize different names for some time after a taxonomic change is proposed. In these cases, the CNDDDB will generally use the preexisting nomenclature until a change is formally recognized beyond the initial publication. In addition, the CNDDDB recognizes some taxa identified by experts on the California fauna where these taxa may not be recognized by national biological societies. We generally follow the taxonomy used by NatureServe, with additional evaluation of taxonomy from the following sources:

#### **For reptiles and amphibians:**

The Center for North American Herpetology (<http://www.cnah.org>)

The Society for the Study of Amphibians and Reptiles (<http://www.ssarherps.org>)

#### **For fishes:**

Moyle, P. B. 2002. *Inland Fishes of California*. University of California Press.

Nelson, J.S., E.J. Crossman, H. Espinosa-Perez, L.T. Findley, C.R. Gilbert, R.N. Lea, and J. D. Williams. 2004. *Common and scientific names of fishes from the United States, Canada, and Mexico*. American Fisheries Society, Special Publication 29, Bethesda, Maryland. 386 pp.

Jelks, H.L., S.J. Walsh, N.M. Burkhead, S. Contreras-Balderas, E. Díaz-Pardo, D.A. Hendrickson, J. Lyons, N.E. Mandrak, F. McCormick, J.S. Nelson, S.P. Platania, B.A. Porter, C.B. Renaud, J.J. Schmitter-Soto, E.B. Taylor, and M.L. Warren, Jr. 2008. Conservation status of imperiled North American freshwater and diadromous fishes. *Fisheries* 33(8):372-407.

#### **For birds:**

The checklist of the American Ornithologists' Union: <http://checklist.aou.org/>

#### **For mammals:**

The American Society of Mammalogists:

<http://www.mammalsociety.org/publications/mammalian-species>

Bradley, R.D., L.K. Ammerman, R.J. Baker, L.C. Bradley, J.A. Cook, R.C. Dowler, C. Jones, D.J. Schimdlly, F.B. Stangl Jr., R.A. Van Den Bussche, & B. Wursig. 2014. *Revised Checklist of North American Mammals North of Mexico, 2014*. Museum of Texas Tech University Occasional Papers 327:1-28. Available at: <http://www.nsrl.ttu.edu/publications/opapers/ops/OP327.pdf>



## Listing and Special Status Information

**CALIFORNIA ENDANGERED SPECIES ACT (CESA) LISTING CODES:** The listing status of each species is current as of the date of this list. The most current changes in listing status will be found in the “Endangered and Threatened Animals List,” which the CNDDDB updates and issues quarterly.

SE	State listed as Endangered
ST	State listed as Threatened
SCE	State candidate for listing as Endangered
SCT	State candidate for listing as Threatened
SCD	State candidate for delisting

**FEDERAL ENDANGERED SPECIES ACT (ESA) LISTING CODES:** The listing status is current as of the date of this list. The most current changes in listing status will be found in the “Endangered and Threatened Animals List,” which the CNDDDB updates and issues quarterly. Federal listing actions contained in the Federal Register are also available at: <http://www.regulations.gov>.

FE	Federally listed as Endangered
FT	Federally listed as Threatened
FPE	Federally proposed for listing as Endangered
FPT	Federally proposed for listing as Threatened
FPD	Federally proposed for delisting
FC	Federal candidate species (former Category 1 candidates)

Section 4(c)(2)(A) of the Act requires the U.S. Fish and Wildlife Service to conduct a **review** of listed species at least once every **five** years. Five year reviews from the Sacramento Fish and Wildlife Office are available at: <https://www.fws.gov/sacramento/es/Five-Year-Reviews/>.

### **OTHER STATUS CODES**

The status of species on the Special Animals List according to other conservation organizations is provided. Taxa on these lists are reviewed for inclusion in the CNDDDB Special Animals List, but are not automatically included. For example, taxa that are regionally rare within a portion of California may not be included, because they may be of lesser conservation concern across their full range in California.

**American Fisheries Society (AFS):** Designations for freshwater and diadromous species were taken from the paper:

Jelks, H.L., S.J. Walsh, N.M. Burkhead, S. Contreras-Balderas, E. Díaz-Pardo, D.A. Hendrickson, J. Lyons, N.E. Mandrak, F. McCormick, J.S. Nelson, S.P. Platania, B.A. Porter, C.B. Renaud, J.J. Schmitter-Soto, E.B. Taylor, and M.L. Warren, Jr. 2008. Conservation status of imperiled North American freshwater and diadromous fishes. Fisheries 33(8):372-407. Available at: [http://www.fs.fed.us/rm/pubs\\_other/rmrs\\_2008\\_jelks\\_h001.pdf](http://www.fs.fed.us/rm/pubs_other/rmrs_2008_jelks_h001.pdf)

Designations for marine and estuarine species were taken from the paper:

Musick, J.A. et al. 2000. "Marine, Estuarine, and Diadromous Fish Stocks at Risk of Extinction in North America (Exclusive of Pacific Salmonids). Fisheries 25(11):6-30. Available at: <http://www.flmnh.ufl.edu/fish/sharks/sawfish/Reprint1390.pdf>

**BLM Sensitive:** Bureau of Land Management (BLM) Manual §6840 states that "BLM sensitive species are: (1) species listed or proposed for listing under the Endangered Species Act (ESA), and (2) species requiring special management consideration to promote their conservation and reduce the likelihood and need for future listing under the ESA, which are designated as Bureau sensitive by the State Director(s). All Federal candidate species, proposed species, and delisted species in the 5 years following delisting will be conserved as Bureau sensitive species." The California-BLM Sensitive Animals list is available at: <https://www.blm.gov/programs/fish-and-wildlife/threatened-and-endangered/state-te-data/california>.

**CDF Sensitive:** California Department of Forestry and Fire Protection classifies "sensitive species" as those species that warrant special protection during timber operations. The list of "sensitive species" is given in §895.1 (Definitions) of the California Forest Practice Rules. The 2016 Forest Practice Rules are available at: [http://www.calfire.ca.gov/resource\\_mgt/resource\\_mgt\\_forestpractice.php](http://www.calfire.ca.gov/resource_mgt/resource_mgt_forestpractice.php).

**CDFW Species of Special Concern (SSC):** It is the goal and responsibility of the Department of Fish and Wildlife to maintain viable populations of all native species. To this end, the Department has designated certain vertebrate species as Species of Special Concern because declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction. The goal of designating species as "Species of Special Concern" is to halt or reverse their decline by calling attention to their plight and addressing the issues of concern early enough to secure their long term viability. Not all "Species of Special Concern" have declined equally; some species may be just starting to decline, while others may have already reached the point where they meet the criteria for listing as a "Threatened" or "Endangered" species under the State and/or Federal Endangered Species Acts. More information is available at: <https://www.wildlife.ca.gov/Conservation/SSC>.

**CDFW Fully Protected:** The classification of Fully Protected was the State's initial effort to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish, amphibians and reptiles, birds, and mammals. Most of the species on these lists have subsequently been listed under the California and/or Federal Endangered Species Acts; the exceptions are white-tailed kite, golden eagle, trumpeter swan, northern elephant seal, and ring-tailed cat. The white-tailed kite and the golden eagle are tracked in the CNDDDB; the trumpeter swan, northern elephant seal, and ring-tailed cat are not. The Fish and Game Code sections dealing with Fully Protected species state that these species "...may not be taken or possessed at any time and no provision of this code or any other law shall be construed to authorize the issuance of permits or licenses to take any fully protected" species, although take may be authorized for necessary scientific research. This language arguably makes the "Fully Protected" designation the strongest and most restrictive regarding the "take" of these species. In 2003, the code sections dealing with Fully Protected species were amended to allow the Department to authorize take resulting from recovery activities for state-listed species. More information on Fully Protected species and the take provisions can be found in the Fish and Game Code, (birds at §3511, mammals at §4700,

reptiles and amphibians at §5050, and fish at §5515). Additional information on Fully Protected fish can be found in the California Code of Regulations, Title 14, Division 1, Subdivision 1, Chapter 2, Article 4, §5.93. The category of Protected Amphibians and Reptiles in Title 14 has been repealed. [The Fish and Game Code](#) and [Title 14 of the California Code of Regulations](#) are available online.

**IUCN - The International Union for Conservation of Nature (IUCN):** The IUCN assesses, on a global scale, the conservation status of species, subspecies, varieties, and even selected subpopulations in order to highlight taxa threatened with extinction, and therefore promote their conservation. Detailed information on the IUCN and the Red List is available at: <http://www.iucnredlist.org>.

**Marine Mammal Commission Marine Mammal Species of Special Concern:** Section 202 of the Marine Mammal Protection Act directs the Marine Mammal Commission, in consultation with its Committee of Scientific Advisors, to make recommendations to the Department of Commerce, the Department of the Interior, and other federal agencies on research and management actions needed to conserve species of marine mammals. To meet this charge, the Commission devotes special attention to particular species and populations that are vulnerable to various types of human-related activities, impacts, and contaminants. Such species may include marine mammals listed as Endangered or Threatened under the Endangered Species Act or as depleted under the Marine Mammal Protection Act. In addition, the Commission often directs special attention to other species or populations of marine mammals not so listed whenever special conservation challenges arise that may affect them. More information on the Marine Mammal Protection Act and the Marine Mammal Species of Special Concern list is available at: <http://www.mmc.gov/priority-topics/species-of-concern/>.

**North American Bird Conservation Initiative (NABCI):** The North American Bird Conservation Initiative is a coalition of government agencies and private organizations that works to ensure the long-term health North America's native bird populations. They publish an annual State of the Birds report which includes a watch list of bird species in need of conservation help. Species on the list are assigned to either the Red Watch List for species with extremely high vulnerability, or Yellow Watch List for species that may be range restricted or may be more widespread but with declines and high threats. More information is available at: <http://stateofthebirds.org>.

**National Marine Fisheries Service (NMFS) Species of Concern:** The Office of Protected Resources (OPR) is a headquarters program office of NOAA's National Marine Fisheries Service (NOAA Fisheries Service, or NMFS), under the U.S. Department of Commerce, with responsibility for protecting marine mammals and endangered marine life. NOAA's Office of Protected Resources works to conserve, protect, and recover species under the Endangered Species Act (ESA) and the Marine Mammal Protection Act (MMPA). The category "Species of Concern" was established by the National Marine Fisheries Service (NMFS) effective 15 April 2004. Species of Concern are those species about which NOAA's National Marine Fisheries Service (NMFS) has some concerns regarding status and threats, but for which insufficient information is available to indicate a need to list the species under the Endangered Species Act (ESA). "Species of Concern" status does not carry any procedural or substantive protections under the ESA, but is meant to draw proactive attention and conservation action to these species. More information is available at: <http://www.nmfs.noaa.gov/pr/species/concern>.

**U.S. Fish and Wildlife Service: Birds of Conservation Concern:** The goal of the *Birds of Conservation Concern 2008* report is to accurately identify the migratory and non-migratory bird species (beyond those already designated as Federally Threatened or Endangered) that represent our highest conservation priorities and draw attention to species in need of conservation action. This report is available at:  
<http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>.

**U.S. Forest Service Sensitive:** USDA Forest Service defines sensitive species as plant and animal species identified by a regional forester that are not listed or proposed for listing under the Federal Endangered Species Act for which population viability is a concern, as evidenced by significant current or predicted downward trends in population numbers or density, or significant current or predicted downward trends in habitat capability that would reduce a species' existing distribution. Regional Foresters shall identify sensitive species occurring within the region. California is the Pacific Southwest Region (Region 5). More information is available at: <http://www.fs.usda.gov/main/r5/plants-animals> and at: [http://www.fs.usda.gov/Internet/FSE\\_DOCUMENTS/stelprdb5435266.xlsx](http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5435266.xlsx).

**Western Bat Working Group (WBWG):** The WBWG is composed of agencies, organizations, and individuals interested in bat research, management, and conservation from the 13 western states and provinces. The goals are (1) to facilitate communication among interested parties and reduce risks of species decline or extinction; (2) to provide a mechanism by which current information on bat ecology, distribution, and research techniques can be readily accessed; and (3) to develop a forum to discuss conservation strategies, provide technical assistance, and encourage education programs. Species are ranked as High, Medium, or Low Priority in each of 10 regions in western North America. Because California includes multiple regions where a species may have different WBWG Priority ranks, the CNNDDB includes categories for Medium-High, and Low-Medium Priority. The CNDDDB tracks bat species that are at least Low-Medium Priority in California. More information is available at: <http://www.wbwg.org>.

**Xerces Society Red List:** The Xerces Society is an international non-profit organization dedicated to protecting biological diversity through invertebrate conservation. The Society advocates for invertebrates and their habitats by working with scientists, land managers, educators, and citizens on conservation and education projects. Their core programs focus on endangered species, native pollinators, and watershed health. More information on the Red List is available at: <http://www.xerces.org>.

## Table of Special Status Code Abbreviations

<b>Organization</b>	<b>Abbreviation</b>
American Fisheries Society - Endangered	AFS_EN
American Fisheries Society - Threatened	AFS_TH
American Fisheries Society - Vulnerable	AFS_VU
Bureau of Land Management - Sensitive	BLM_S
Calif Dept of Forestry & Fire Protection - Sensitive	CDF_S
Calif Dept of Fish & Wildlife - Fully Protected	CDFW_FP
Calif Dept of Fish & Wildlife - Species of Special Concern	CDFW_SSC
Calif Dept of Fish & Wildlife - Watch List	CDFW_WL
IUCN - Critically Endangered	IUCN_CR
IUCN - Endangered	IUCN_EN
IUCN - Near Threatened	IUCN_NT
IUCN - Vulnerable	IUCN_VU
IUCN - Least Concern	IUCN_LC
IUCN - Data Deficient	IUCN_DD
IUCN - Conservation Dependent	IUCN_CD
Marine Mammal Commission - Species of Special Concern	MMC_SSC
National Marine Fisheries Service - Species of Concern	NMFS_SC
North American Bird Conservation Initiative- Red Watch List	NABCI_RWL
North American Bird Conservation Initiative- Yellow Watch List	NABCI_YWL
U.S. Forest Service - Sensitive	USFS_S
U.S. Fish & Wildlife Service Birds of Conservation Concern	USFWS_BCC
Western Bat Working Group - High Priority	WBWG_H
Western Bat Working Group - Medium-High Priority	WBWG_MH
Western Bat Working Group - Medium Priority	WBWG_M
Western Bat Working Group - Low-Medium Priority	WBWG_LM
Xerces Society - Critically Imperiled	XERCES_CI
Xerces Society - Imperiled	XERCES_IM
Xerces Society - Vulnerable	XERCES_VU
Xerces Society - Data Deficient	XERCES_DD

## **Special Animals List**

(913 taxa)

Last updated August 8, 2019

The remainder of this document contains the CNDDDB's Special Animals List current as of the date on the title page of this document. For additional information on how CNDDDB determines what species to track please see the [CNDDDB webpage](#).

## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>PELECYPODA (clams and mussels)</b>						
+ <i>Anodonta californiensis</i> California floater		G3Q S2?	None	None	USFS:S	
+ <i>Anodonta oregonensis</i> Oregon floater		G5Q S2?	None	None		
+ <i>Gonidea angulata</i> western ridged mussel		G3 S1S2	None	None		
+ <i>Margaritifera falcata</i> western pearlshell		G4G5 S1S2	None	None		
+ <i>Pisidium ultramontanum</i> montane peaclam		G1 S1	None	None	IUCN:VU USFS:S	
<b>GASTROPODA (Snails, slugs and abalone)</b>						
<i>Algamorda newcombiana</i> Newcomb's littorine snail		G5 S1S2	None	None		
+ <i>Ammonitella yatesii</i> tight coin (=Yates' snail)		G1 S1	None	None	IUCN:VU	
+ <i>Ancotrema voyanum</i> hooded lancetooth		G1G2 S1S2	None	None	BLM:S	
+ <i>Assiminea infima</i> Badwater snail		G1 S1	None	None	IUCN:VU	
+ <i>Binneya notabilis</i> Santa Barbara shelled slug		G1 S1	None	None	IUCN:DD	
+ <i>Colligyrus convexus</i> canary duskysnail		G1G2 S1S2	None	None		
+ <i>Eremarionta immaculata</i> white desertsnail		G1 S1	None	None	IUCN:VU	
<i>Eremarionta millepalmarum</i> Thousand Palms desertsnail		G1 S1	None	None	IUCN:VU	
+ <i>Eremarionta morongoana</i> Morongo (=Colorado) desertsnail		G1G3 S1	None	None	IUCN:NT	
+ <i>Eremarionta rowelli bakerensis</i> Baker's desertsnail		G3G4T1 S1	None	None	IUCN:DD	
+ <i>Eremarionta rowelli mccoiana</i> California Mcco snail		G3G4T1 S1	None	None	IUCN:DD	
+ <i>Fluminicola seminalis</i> nugget pebblesnail		G2 S1S2	None	None	USFS:S	
+ <i>Fontelicella</i> sp. Deep Springs fontelicella		G1 S1	None	None		
<i>Glyptostoma gabrielse</i> San Gabriel chestnut		G2 S2	None	None		
<i>Haliotis corrugata</i> pink abalone		G3? S2?	None	None	NMFS:SC	
+ <i>Haliotis cracherodii</i> black abalone		G3 S1S2	Endangered	None	IUCN:CR	
<i>Haliotis fulgens</i> green abalone		G3G4 S2	None	None	NMFS:SC	
<i>Haliotis kamtschatkana</i> pinto abalone		G3G4 S2	None	None	IUCN:EN NMFS:SC	
<i>Haliotis sorenseni</i> white abalone		G1 S1	Endangered	None		
+ <i>Haplotrema catalinense</i> Santa Catalina lancetooth		G1 S1	None	None		
+ <i>Haplotrema durantei</i> ribbed lancetooth		G1G2 S1S2	None	None		
+ <i>Helisoma newberryi</i> Great Basin rams-horn		G1 S1S2	None	None	USFS:S	
+ <i>Helminthoglypta allynsmithi</i> Merced Canyon shoulderband		G1 S1	None	None	IUCN:VU	

## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>GASTROPODA (Snails, slugs and abalone)</b>						
+ <i>Helminthoglypta arrosa monticola</i> mountain shoulderband		G2G3T1 S1	None	None		
+ <i>Helminthoglypta arrosa pomoensis</i> Pomo bronze shoulderband		G2G3T1 S1	None	None	IUCN:DD	
+ <i>Helminthoglypta ayresiana sanctaerucis</i> Ayer's snail		G1G2T1T2 S1S2	None	None		
+ <i>Helminthoglypta callistoderma</i> Kern shoulderband		G1 S1	None	None	IUCN:EN	
+ <i>Helminthoglypta coelata</i> mesa shoulderband		G1 S1	None	None	IUCN:VU	
+ <i>Helminthoglypta concolor</i> whitefir shoulderband		G1G2 S1S2	None	None		
<i>Helminthoglypta fontiphila</i> Soledad shoulderband		G1 S1	None	None		
+ <i>Helminthoglypta greggi</i> Mohave shoulderband		G1 S1	None	None		
+ <i>Helminthoglypta hertleini</i> Oregon shoulderband		G1 S1S2	None	None	BLM:S	
+ <i>Helminthoglypta milleri</i> peak shoulderband		G1 S1	None	None		
+ <i>Helminthoglypta mohaveana</i> Victorville shoulderband		G1 S1	None	None	IUCN:NT	
+ <i>Helminthoglypta nickliniana awania</i> Peninsula coast range shoulderband		G3T1 S1	None	None	IUCN:DD	
+ <i>Helminthoglypta nickliniana bridgesi</i> Bridges' coast range shoulderband		G3T1 S1S2	None	None	IUCN:DD	
+ <i>Helminthoglypta sequoicola consors</i> redwood shoulderband		G2T1 S1	None	None	IUCN:DD	
+ <i>Helminthoglypta stiversiana williamsi</i> Williams' bronze shoulderband		G2G3T1 S1	None	None	IUCN:DD	
+ <i>Helminthoglypta talmadgei</i> Trinity shoulderband		G2 S2	None	None	BLM:S	
+ <i>Helminthoglypta taylori</i> westfork shoulderband		G1 S1	None	None		
<i>Helminthoglypta traskii pacoimensis</i> Pacoima shoulderband		G1G2T1 S1	None	None		
+ <i>Helminthoglypta traskii traskii</i> Trask shoulderband		G1G2T1 S1	None	None		
<i>Helminthoglypta uvasana</i> Grapevine shoulderband		G1 S1	None	None		
<i>Helminthoglypta vasquezi</i> Vasquez shoulderband		G1 S1	None	None		
+ <i>Helminthoglypta walkeriana</i> Morro shoulderband (=banded dune) snail		G1 S1S2	Endangered	None	IUCN:CR	
<i>Herpeteros angelus</i> Soledad desert snail		G1 S1	None	None		
+ <i>Hesperarion plumbeus</i> leaden slug		G1 S1	None	None		
+ <i>Ipnobius robustus</i> robust tryonia		G1G2 S1	None	None		
+ <i>Juga acutifilosa</i> topaz juga		G2 S2	None	None	USFS:S	
+ <i>Juga chacei</i> Chace juga		G1 S1	None	None	USFS:S	
+ <i>Juga occata</i> scalloped juga		G1 S1	None	None	USFS:S	



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Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>GASTROPODA (Snails, slugs and abalone)</b>						
+ <i>Juga orickensis</i> redwood juga		G2 S1S2	None	None		
<i>Lanx alta</i> highcap lanx		G2 S1S2	None	None		
<i>Lanx klamathensis</i> scale lanx		G1 S1	None	None		
+ <i>Lanx patelloides</i> kneecap lanx		G2 S2	None	None	USFS:S	
+ <i>Megomphix californicus</i> Natural Bridge megomphix		G1G2 S1S2	None	None		
+ <i>Micrarionta facta</i> Santa Barbara islandsnail		G1G2 S1S2	None	None	IUCN:VU	
+ <i>Micrarionta feralis</i> San Nicolas islandsnail		G1 S1	None	None	IUCN:CR	
+ <i>Micrarionta gabbi</i> San Clemente islandsnail		G1 S1	None	None	IUCN:VU	
+ <i>Micrarionta opuntia</i> pricklypear islandsnail		G1 S1	None	None	IUCN:VU	
+ <i>Monadenia callipeplus</i> downy sideband		G1G2 S1S2	None	None		
+ <i>Monadenia chaceana</i> Siskiyou shoulderband		G2G3 S2	None	None	BLM:S	
+ <i>Monadenia churchi</i> Klamath sideband		G2G3 S2	None	None		
+ <i>Monadenia circumcarinata</i> keeled sideband		G1 S1	None	None	BLM:S IUCN:VU	
+ <i>Monadenia cristulata</i> crested sideband		G1? S1S2	None	None		
+ <i>Monadenia fidelis leonina</i> A terrestrial snail		G4G5T1T2 S1S2	None	None		
+ <i>Monadenia fidelis pronotis</i> rocky coast Pacific sideband		G4G5T1 S1	None	None		
+ <i>Monadenia infumata ochromphalus</i> yellow-based sideband		G2T1 S1	None	None		
+ <i>Monadenia infumata setosa</i> Trinity bristle snail		G2T2 S2	None	Threatened	IUCN:VU	
<i>Monadenia marmarotis</i> marble sideband		G1 S1	None	None		
+ <i>Monadenia mormonum buttoni</i> Button's Sierra sideband		G2T1 S1S2	None	None		
+ <i>Monadenia mormonum hirsuta</i> hirsute Sierra sideband		G2T1 S1	None	None	BLM:S	
+ <i>Monadenia troglodytes troglodytes</i> Shasta sideband		G1G2T1T2 S1S2	None	None	IUCN:DD USFS:S	
+ <i>Monadenia troglodytes wintu</i> Wintu sideband		G1G2T1T2 S1S2	None	None	IUCN:DD USFS:S	
+ <i>Monadenia tuolumneana</i> Tuolumne sideband		G1 S1	None	None	BLM:S	
+ <i>Monadenia yosemitensis</i> Yosemite Mariposa sideband		G1 S1S2	None	None		
+ <i>Noyo intersessa</i> Ten Mile shoulderband		G2 S2	None	None		
+ <i>Pomatiopsis binneyi</i> robust walker		G1 S1	None	None		
<i>Pomatiopsis californica</i> Pacific walker		G1 S1	None	None		
<i>Pomatiopsis chacei</i> marsh walker		G1 S1	None	None		

## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>GASTROPODA (Snails, slugs and abalone)</b>						
+ <i>Pristiloma shepardae</i> Shepard's snail		G1 S1	None	None		
+ <i>Pristinicola hemphilli</i> pristine pyrg		G3 S1	None	None	USFS:S	
<i>Prophysaon coeruleum</i> Blue-gray taildropper slug		G3G4 S1S2	None	None		Yes
+ <i>Punctum hannai</i> Trinity Spot		G1G2 S1S2	None	None		
+ <i>Pyrgulopsis aardahli</i> Benton Valley (=Aahrdahl's) springsnail		G1 S1	None	None		
+ <i>Pyrgulopsis archimedis</i> Archimedes pyrg		G1G2 S1S2	None	None		
+ <i>Pyrgulopsis cinerana</i> Ash Valley pyrg		G1G2 S1S2	None	None		
+ <i>Pyrgulopsis diablensis</i> Diablo Range pyrg		G1 S1	None	None	IUCN:VU	
+ <i>Pyrgulopsis eremica</i> Smoke Creek pyrg		G2 S2	None	None		
+ <i>Pyrgulopsis falciglans</i> Likely pyrg		G1 S1	None	None		
+ <i>Pyrgulopsis gibba</i> Surprise Valley pyrg		G3 S1S2	None	None		
+ <i>Pyrgulopsis greggi</i> Kern River pyrg		G1 S1	None	None	IUCN:VU	
+ <i>Pyrgulopsis lassenii</i> Willow Creek pyrg		G1G2 S1S2	None	None	USFS:S	
+ <i>Pyrgulopsis longae</i> Long Valley pyrg		G1 S1	None	None		
+ <i>Pyrgulopsis owensensis</i> Owens Valley springsnail		G1G2 S1S2	None	None	USFS:S	
+ <i>Pyrgulopsis perturbata</i> Fish Slough springsnail		G1 S1	None	None		
+ <i>Pyrgulopsis rupinicola</i> Sucker Springs pyrg		G1 S1	None	None		
+ <i>Pyrgulopsis taylori</i> San Luis Obispo pyrg		G1 S1	None	None		
+ <i>Pyrgulopsis ventricosa</i> Clear Lake pyrg		G1 S1	None	None	IUCN:CR	
+ <i>Pyrgulopsis wongi</i> Wong's springsnail		G2 S2	None	None	IUCN:LC USFS:S	
+ <i>Radiocentrum avalonense</i> Catalina mountainsnail		G1 S1	None	None	IUCN:CR	
+ <i>Rothelix warnerfontis</i> Warner Springs shoulderband		G1 S1	None	None	USFS:S	
+ <i>Sterkia clementina</i> San Clemente Island blunt-top snail		G1 S1S2	None	None	IUCN:NT	
+ <i>Trilobopsis roperi</i> Shasta chaparral		G1 S1	None	None	USFS:S	
+ <i>Trilobopsis tehamana</i> Tehama chaparral		G1 S1	None	None	BLM:S USFS:S	
+ <i>Tryonia imitator</i> mimic tryonia (=California brackishwater snail)		G2 S2	None	None	IUCN:DD	
+ <i>Tryonia margae</i> Grapevine Springs elongate tryonia		G1 S1	None	None		
+ <i>Tryonia rowlandsi</i> Grapevine Springs squat tryonia		G1 S1	None	None		

## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>GASTROPODA (Snails, slugs and abalone)</b>						
+ <i>Vespericola karokorum</i> Karak hesperian		G2 S2	None	None	IUCN:DD	
+ <i>Vespericola marinensis</i> Marin hesperian		G2 S2	None	None		
+ <i>Vespericola pressleyi</i> Big Bar hesperian		G1 S1	None	None	BLM:S USFS:S	
<i>Vespericola scotti</i> Benson Gulch hesperian		G1 S1	None	None		
+ <i>Vespericola shasta</i> Shasta hesperian		G1 S1	None	None	USFS:S	
+ <i>Vespericola sierranus</i> Siskiyou hesperian		G2 S1S2	None	None		
+ <i>Xerarionta intercosa</i> horseshoe snail		G1 S1	None	None	IUCN:VU	
+ <i>Xerarionta redimita</i> wreathed cactusnail		G1G2 S1	None	None	IUCN:VU	
<i>Xerarionta tryoni</i> Bicolor cactusnail		G1 S1	None	None	IUCN:VU	
<b>ARACHNIDA (Spiders and relatives)</b>						
+ <i>Aphrastochthonius grubbsi</i> Grubbs' Cave pseudoscorpion		G1G2 S1S2	None	None		
<i>Aphrastochthonius similis</i> Carlow's Cave pseudoscorpion		G1G2 S1S2	None	None		
<i>Archeolarca aalbui</i> Aalbu's Cave pseudoscorpion		G1G2 S1S2	None	None		
+ <i>Banksula californica</i> Alabaster Cave harvestman		GH SH	None	None		
+ <i>Banksula galilei</i> Galile's cave harvestman		G1 S1	None	None		
+ <i>Banksula grubbsi</i> Grubbs' cave harvestman		G1 S1	None	None		
+ <i>Banksula incredula</i> incredible harvestman		G1 S1	None	None		
+ <i>Banksula martinorum</i> Martins' cave harvestman		G1 S1	None	None		
+ <i>Banksula melones</i> Melones Cave harvestman		G1 S1	None	None	IUCN:VU	
+ <i>Banksula rudolphi</i> Rudolph's cave harvestman		G1 S1	None	None		
+ <i>Banksula tuolumne</i> Tuolumne cave harvestman		G1 S1	None	None		
+ <i>Banksula tutankhamen</i> King Tut Cave harvestman		G1 S1	None	None		
+ <i>Calicina arida</i> San Benito harvestman		G1 S1	None	None		
+ <i>Calicina breva</i> Stanislaus harvestman		G1 S1	None	None		
+ <i>Calicina cloughensis</i> Clough Cave harvestman		G1 S1	None	None		
+ <i>Calicina conifera</i> Crane Flat harvestman		G1 S1	None	None		
+ <i>Calicina diminua</i> Marin blind harvestman		G1 S1	None	None		
+ <i>Calicina dimorphica</i> Watts Valley harvestman		G1 S1	None	None		
+ <i>Calicina macula</i> marbled harvestman		G1 S1	None	None		

## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>ARACHNIDA (Spiders and relatives)</b>						
+ <i>Calicina mesaensis</i>	Table Mountain harvestman	G1 S1	None	None		
+ <i>Calicina minor</i>	Edgewood blind harvestman	G1 S1	None	None		
+ <i>Calicina piedra</i>	Piedra harvestman	G1 S1	None	None		
+ <i>Calileptoneta briggsi</i>	Briggs' leptonetid spider	G1 S1	None	None		
+ <i>Calileptoneta oasa</i>	Andreas Canyon leptonetid spider	G1 S1	None	None		
+ <i>Calileptoneta ubicki</i>	Ubick's leptonetid spider	G1 S1	None	None		
+ <i>Calileptoneta wapiti</i>	Mendocino leptonetid spider	G1 S1	None	None		
+ <i>Fissilicreagris imperialis</i>	Empire Cave pseudoscorpion	G1 S1	None	None	IUCN:VU	
+ <i>Hubbardia idria</i>	Idria short-tailed whipscorpion	G1 S1	None	None		
+ <i>Hubbardia secoensis</i>	Arroyo Seco short-tailed whipscorpion	G1 S1	None	None		
+ <i>Hubbardia shoshonensis</i>	Shoshone Cave whip-scorpion	G1 S1	None	None	BLM:S	Yes
+ <i>Larca laceyi</i>	Lacey's Cave pseudoscorpion	G1G2 S1	None	None		
+ <i>Meta dolloff</i>	Dolloff Cave spider	G1 S1	None	None	IUCN:VU	
+ <i>Microcina edgewoodensis</i>	Edgewood Park micro-blind harvestman	G1 S1	None	None		
+ <i>Microcina homi</i>	Hom's micro-blind harvestman	G1 S1	None	None		
+ <i>Microcina jungi</i>	Jung's micro-blind harvestman	G1 S1	None	None		
+ <i>Microcina leei</i>	Lee's micro-blind harvestman	G1 S1	None	None		
+ <i>Microcina lumi</i>	Lum's micro-blind harvestman	G1 S1	None	None		
+ <i>Microcina tiburona</i>	Tiburon micro-blind harvestman	G1 S1	None	None		
+ <i>Neochthonius imperialis</i>	Empire Cave pseudoscorpion	G1 S1	None	None		
+ <i>Pseudogarypus orpheus</i>	Music Hall Cave pseudoscorpion	G1G2 S1	None	None		
+ <i>Socalchemmis gertschi</i>	Gertsch's socalchemmis spider	G1 S1	None	None		
+ <i>Socalchemmis icenoglei</i>	Icenogle's socalchemmis spider	G1 S1	None	None		
+ <i>Socalchemmis monterey</i>	Monterey socalchemmis spider	G1 S1	None	None		
+ <i>Talanites moodyae</i>	Moody's gnaphosid spider	G1G2 S1S2	None	None		
+ <i>Talanites ubicki</i>	Ubick's gnaphosid spider	G1 S1	None	None		
<i>Telema sp.</i>	Santa Cruz telemid spider	G1G2 S1S2	None	None		
<i>Texella deserticola</i>	Whitewater Canyon harvestman	G1 S1	None	None		

**Invertebrates**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>ARACHNIDA (Spiders and relatives)</b>						
+ <i>Texella kokoweef</i>		G1 S1	None	None		
	Kokoweef Crystal Cave harvestman					
+ <i>Texella shoshone</i>		G1 S1	None	None		
	Shoshone Cave harvestman					
<b>CRUSTACEA, Order Anostraca (fairy shrimp)</b>						
+ <i>Artemia monica</i>		G3 S3	None	None	IUCN:CD	
	Mono Lake brine shrimp					
+ <i>Branchinecta campestris</i>		G2 S1	None	None		
	pocket pouch fairy shrimp					
+ <i>Branchinecta conservatio</i>		G2 S2	Endangered	None	IUCN:EN	
	Conservancy fairy shrimp					
+ <i>Branchinecta longiantenna</i>		G1 S1S2	Endangered	None	IUCN:EN	
	longhorn fairy shrimp					
+ <i>Branchinecta lynchi</i>		G3 S3	Threatened	None	IUCN:VU	
	vernal pool fairy shrimp					
+ <i>Branchinecta mesovallensis</i>		G2 S2S3	None	None		
	midvalley fairy shrimp					
+ <i>Branchinecta sandiegonensis</i>		G2 S2	Endangered	None	IUCN:EN	
	San Diego fairy shrimp					
+ <i>Linderiella occidentalis</i>		G2G3 S2S3	None	None	IUCN:NT	
	California linderiella					
+ <i>Linderiella santarosae</i>		G1G2 S1	None	None		
	Santa Rosa Plateau fairy shrimp					
+ <i>Streptocephalus woottoni</i>		G1G2 S1S2	Endangered	None	IUCN:EN	
	Riverside fairy shrimp					
<b>CRUSTACEA, Order Notostraca (tadpole shrimp)</b>						
+ <i>Lepidurus packardii</i>		G4 S3S4	Endangered	None	IUCN:EN	
	vernal pool tadpole shrimp					
<b>CRUSTACEA, Order Anomopoda (water fleas)</b>						
+ <i>Dumontia oregonensis</i>		G1G3 S1	None	None		
	hairy water flea					
<b>CRUSTACEA, Order Isopoda (isopods)</b>						
+ <i>Bowmanasellus sequoiae</i>		G1 S1	None	None		
	Sequoia cave isopod					
+ <i>Caecidotea tomalensis</i>		G2 S2S3	None	None		
	Tomales isopod					
+ <i>Calasellus californicus</i>		G2 S2	None	None		
	An isopod					
+ <i>Calasellus longus</i>		G1 S1	None	None		
	An isopod					
<b>CRUSTACEA, Order Amphipoda (amphipods)</b>						
+ <i>Hyalella muerta</i>		G1 S1	None	None		Yes
	Texas Spring amphipod					
+ <i>Hyalella sandra</i>		G1 S1	None	None		Yes
	Death Valley amphipod					
+ <i>Stygobromus cherylae</i>		G1 S1	None	None		
	Barr's amphipod					
<i>Stygobromus cowani</i>		G1 S1	None	None		
	Cowan's amphipod					
<i>Stygobromus gallawayae</i>		G1 S1	None	None		
	Gallaway's amphipod					
+ <i>Stygobromus gradyi</i>		G1 S1	None	None	IUCN:VU	
	Grady's Cave amphipod					
<i>Stygobromus grahami</i>		G2 S2	None	None		
	Graham's Cave amphipod					
+ <i>Stygobromus harai</i>		G1G2 S1S2	None	None	IUCN:VU	
	Hara's Cave amphipod					

## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>CRUSTACEA, Order Amphipoda (amphipods)</b>						
<i>Stygobromus hyporheicus</i>	Hypoheic amphipod	G1 S1	None	None		
<i>Stygobromus imperialis</i>	Empire Cave amphipod	G1 S1	None	None		
+ <i>Stygobromus lacicolus</i>	Lake Tahoe amphipod	G1 S1	None	None		
+ <i>Stygobromus mackenziei</i>	Mackenzie's Cave amphipod	G1 S1	None	None	IUCN:VU	
<i>Stygobromus myersae</i>	Myer's amphipod	G1G2 S1S2	None	None		
<i>Stygobromus mysticus</i>	Secret Cave amphipod	G1 S1	None	None		
<i>Stygobromus rudolphi</i>	Rudolph's amphipod	G1 S1	None	None		
<i>Stygobromus sheldoni</i>	Sheldon's amphipod	G1 S1	None	None		
<i>Stygobromus sierrensis</i>	Sierra amphipod	G1 S1	None	None		
+ <i>Stygobromus tahoensis</i>	Lake Tahoe stygobromid	G1 S1	None	None		
<i>Stygobromus trinus</i>	Trinity County amphipod	G1 S1	None	None		
+ <i>Stygobromus wengerorum</i>	Wengerors' Cave amphipod	G1 S1	None	None	IUCN:VU	
<b>CRUSTACEA, Order Decapoda (crayfish &amp; shrimp)</b>						
+ <i>Pacifastacus fortis</i>	Shasta crayfish	G1 S1	Endangered	Endangered	IUCN:CR	
<i>Pacifastacus leniusculus klamathensis</i>	Klamath crayfish	G5T5 S3	None	None		
+ <i>Syncaris pacifica</i>	California freshwater shrimp	G2 S2	Endangered	Endangered	IUCN:EN	
<b>INSECTA, Order Odonata (dragonflies &amp; damselflies)</b>						
+ <i>Ischnura gemina</i>	San Francisco forktail damselfly	G2 S2	None	None	IUCN:VU	
<b>INSECTA, Order Plecoptera (stoneflies)</b>						
+ <i>Capnia lacustra</i>	Lake Tahoe benthic stonefly	G1 S1	None	None		
+ <i>Cosumnoperla hypocreana</i>	Cosumnes stripetail	G2 S2	None	None		
<b>INSECTA, Order Orthoptera (grasshoppers, katydids, and crickets)</b>						
+ <i>Aglaothorax longipennis</i>	Santa Monica shieldback katydid	G1G2 S1S2	None	None	IUCN:CR	
+ <i>Ammopelmatus kelsoensis</i>	Kelso jerusalem cricket	G1G2 S1S2	None	None	IUCN:VU	
+ <i>Ammopelmatus muwu</i>	Point Conception jerusalem cricket	G1 S1	None	None	IUCN:VU	
+ <i>Idiostatus kathleenae</i>	Pinnacles shieldback katydid	G1G2 S1S2	None	None		
+ <i>Idiostatus middlekauffi</i>	Middlekauff's shieldback katydid	G1G2 S1	None	None	IUCN:CR	
<i>Macrobaenetes algodonensis</i>	Algodones sand treader cricket	G1G2 S1S2	None	None		
+ <i>Macrobaenetes kelsoensis</i>	Kelso giant sand treader cricket	G2 S2	None	None	IUCN:VU	
+ <i>Macrobaenetes valgum</i>	Coachella giant sand treader cricket	G1G2 S1S2	None	None	IUCN:VU	

## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>INSECTA, Order Orthoptera (grasshoppers, katyids, and crickets)</b>						
<i>Pristocephalus sp.</i>		G1G3 S1S3	None	None	IUCN:VU	
Samwell Cave cricket						
+ <i>Psychomastax deserticola</i>		G1G2 S1S2	None	None	IUCN:VU	
desert monkey grasshopper						
+ <i>Stenopelmatus cahuilensis</i>		G1G2 S1S2	None	None	IUCN:VU	
Coachella Valley jerusalem cricket						
+ <i>Tetrix sierrana</i>		G1G2 S1S2	None	None	IUCN:VU	
Sierra pygmy grasshopper						
+ <i>Trimerotropis infantilis</i>		G1 S1	Endangered	None	IUCN:EN	
Zayante band-winged grasshopper						
+ <i>Trimerotropis occidentiloides</i>		G1G2 S1S2	None	None	IUCN:EN	
Santa Monica grasshopper						
+ <i>Trimerotropis occulens</i>		G1G2 S1S2	None	None	IUCN:EN	
Lompoc grasshopper						
<b>INSECTA, Order Heteroptera (true bugs)</b>						
+ <i>Ambrysus funebris</i>		G1 S1	Candidate	None		
Nevares Spring naucorid bug						
+ <i>Belostoma saratogae</i>		G1 S1	None	None		
Saratoga Springs belostoman bug						
+ <i>Oravelia pege</i>		G1 S1	None	None		
Dry Creek cliff strider bug						
+ <i>Pelocoris shoshone</i>		G1G3 S1S2	None	None		
Amargosa naucorid bug						
+ <i>Saldula usingeri</i>		G1 S1	None	None		
Wilbur Springs shorebug						
<b>INSECTA, Order Neuroptera (lacewings)</b>						
+ <i>Oliarces clara</i>		G1G3 S2	None	None		
cheeseweed owlfly (cheeseweed moth lacewing)						
<b>INSECTA, Order Coleoptera (beetles)</b>						
+ <i>Aegialia concinna</i>		G1 S1	None	None	BLM:S IUCN:VU	
Ciervo aegilian scarab beetle						
+ <i>Agabus rumpfi</i>		G1G3 S1	None	None		
Death Valley agabus diving beetle						
<i>Agilus harenus</i>		G1G2 S1S2	None	None		
Harenus jewel beetle						
+ <i>Anomala carlsoni</i>		G1 S1	None	None		
Carlson's dune beetle						
+ <i>Anomala hardyorum</i>		G1 S1	None	None		
Hardy's dune beetle						
+ <i>Anthicus antiochensis</i>		G1 S1	None	None		
Antioch Dunes anthicid beetle						
+ <i>Anthicus sacramento</i>		G1 S1	None	None	IUCN:EN	
Sacramento anthicid beetle						
+ <i>Atractelmis wawona</i>		G1G3 S1S2	None	None		
Wawona riffle beetle						
+ <i>Chaetarthria leechi</i>		G1? S1?	None	None		
Leech's chaetarthrian water scavenger beetle						
+ <i>Cicindela gabbii</i>		G2G4 S1	None	None		
western tidal-flat tiger beetle						
+ <i>Cicindela hirticollis abrupta</i>		G5TH SH	None	None		
Sacramento Valley tiger beetle						
+ <i>Cicindela hirticollis gravida</i>		G5T2 S2	None	None		
sandy beach tiger beetle						
+ <i>Cicindela latesignata latesignata</i>		G2G4T1T2 S1	None	None		
western beach tiger beetle						

## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>INSECTA, Order Coleoptera (beetles)</b>						
+ <i>Cicindela ohlone</i> Ohlone tiger beetle		G1 S1	Endangered	None		
+ <i>Cicindela senilis frosti</i> senile tiger beetle		G2G3T1T3 S1	None	None		
+ <i>Cicindela tranquebarica ssp.</i> San Joaquin tiger beetle		G5T1 S1	None	None		
+ <i>Cicindela tranquebarica viridissima</i> greenest tiger beetle		G5T1 S1	None	None		
+ <i>Coelus globosus</i> globose dune beetle		G1G2 S1S2	None	None	IUCN:VU	
+ <i>Coelus gracilis</i> San Joaquin dune beetle		G1 S1	None	None	BLM:S IUCN:VU	
<i>Coenonycha clementina</i> San Clemente Island coenonycha beetle		G1G2 S1S2	None	None		
<i>Cyclocephala wandae</i> Wandae dune beetle		G1G2 S1S2	None	None		
<i>Deltaspis ivae</i> marsh-elder long-horned beetle		G1 S1	None	None		
+ <i>Desmocerus californicus dimorphus</i> valley elderberry longhorn beetle		G3T2 S2	Threatened	None		
+ <i>Dinacoma caseyi</i> Casey's June beetle		G1 S1	Endangered	None		
+ <i>Dubiraphia brunnescens</i> brownish dubiraphian riffle beetle		G1 S1	None	None		
+ <i>Dubiraphia giulianii</i> Giuliani's dubiraphian riffle beetle		G1G3 S1S3	None	None		
+ <i>Elaphrus viridis</i> Delta green ground beetle		G1 S1	Threatened	None	IUCN:CR	
+ <i>Glaresis arenata</i> Kelso Dunes scarab glaresis beetle		G2 S2	None	None		
+ <i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle		G2? S2?	None	None		
+ <i>Hydroporus leechi</i> Leech's skyline diving beetle		G1? S1?	None	None		
+ <i>Hydroporus simplex</i> simple hydroporus diving beetle		G1? S1?	None	None		
+ <i>Hygrotus curvipes</i> curved-foot hygrotus diving beetle		G1 S1	None	None		
+ <i>Hygrotus fontinalis</i> travertine band-thigh diving beetle		G1 S1	None	None		
<i>Juniperella mirabilis</i> juniper metallic wood-boring beetle		G1 S1	None	None		
+ <i>Lepismadora algodones</i> Algodones sand jewel beetle		G1 S1	None	None		
+ <i>Lichnanthe albipilosa</i> white sand bear scarab beetle		G1 S1	None	None		
+ <i>Lichnanthe ursina</i> bumblebee scarab beetle		G2 S2	None	None		
+ <i>Lytta hoppingi</i> Hopping's blister beetle		G1G2 S1S2	None	None		
<i>Lytta insperata</i> Mojave Desert blister beetle		G1G2 S1S2	None	None		
+ <i>Lytta moesta</i> moestan blister beetle		G2 S2	None	None		
+ <i>Lytta molesta</i> molestan blister beetle		G2 S2	None	None		
+ <i>Lytta morrisoni</i> Morrison's blister beetle		G1G2 S1S2	None	None		



## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>INSECTA, Order Coleoptera (beetles)</b>						
+ <i>Microcylloepus formicoideus</i> Furnace Creek riffle beetle		G1 S1	None	None		
+ <i>Miloderes nelsoni</i> Nelson's miloderes weevil		G2 S2	None	None		
+ <i>Nebria darlingtoni</i> South Forks ground beetle		G1 S1	None	None		
+ <i>Nebria gebleri siskiyouensis</i> Siskiyou ground beetle		G4G5T4 S1S2	None	None		
+ <i>Nebria sahlbergii triad</i> Trinity Alps ground beetle		G1T1 S1	None	None		
<i>Ochthebius crassalus</i> wing shoulder minute moss beetle		G1G3 S1S3	None	None		
+ <i>Ochthebius recticulus</i> Wilbur Springs minute moss beetle		G1 S1	None	None		
+ <i>Onychobaris langei</i> Lange's El Segundo Dune weevil		G1 S1	None	None		
+ <i>Optioservus canus</i> Pinnacles optioservus riffle beetle		G1 S1	None	None		
<i>Paleoxenus dohrni</i> Dohrn's elegant eucnemid beetle		G3? S3?	None	None		
+ <i>Polyphylla anteronivea</i> Saline Valley snow-front June beetle		G1 S1	None	None		
+ <i>Polyphylla barbata</i> Mount Hermon (=barbata) June beetle		G1 S1	Endangered	None		
+ <i>Polyphylla erratica</i> Death Valley June beetle		G1G2 S1S2	None	None		
+ <i>Polyphylla nubila</i> Atascadero June beetle		G1 S1	None	None		
<i>Prasinalia imperialis</i> Algodones white wax jewel beetle		G1G2 S1S2	None	None		
+ <i>Pseudocotalpa andrewsi</i> Andrew's dune scarab beetle		G1 S1	None	None		
<i>Scaphinotus behrensi</i> Behrens' snail-eating beetle		G2G4 S2S4	None	None		
+ <i>Trachykele hartmani</i> serpentine cypress wood-boring beetle		G1 S1	None	None		
<i>Trichinorhipis knulli</i> Knull's metallic wood-boring beetle		G1 S1	None	None		
+ <i>Trigonoscuta brunnotesselata</i> brown tassel trigonoscuta weevil		G1G2 S1S2	None	None		
+ <i>Trigonoscuta dorothea dorothea</i> Dorothy's El Segundo Dune weevil		G1T1 S1	None	None		
<i>Trigonoscuta rothi algodones</i> Algodones dune weevil		G1G2 S1S2	None	None		
<i>Trigonoscuta rothi imperialis</i> Imperial dune weevil		G1G2 S1S2	None	None		
<i>Trigonoscuta rothi punctata</i> Punctate dune weevil		G1G2 S1S2	None	None		
<i>Trigonoscuta rothi rothi</i> Roth's dune weevil		G1G2 S1S2	None	None		
+ <i>Trigonoscuta sp.</i> Doyen's trigonoscuta dune weevil		G1Q S1	None	None		Yes
+ <i>Trigonoscuta stantoni</i> Santa Cruz Island shore weevil		G1 S1	None	None		
+ <i>Vandykea tuberculata</i> serpentine cypress long-horned beetle		G1 S1	None	None		

## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>INSECTA, Order Mecoptera (scorpionflies)</b>						
+ <i>Orobittacus obscurus</i>		G1 S1	None	None		
	gold rush hanging scorpionfly					
<b>INSECTA, Order Diptera (flies)</b>						
+ <i>Ablautus schlingerii</i>		G1 S1	None	None		
	Oso Flaco robber fly					
+ <i>Apiocera warneri</i>		G1G2 S1S2	None	None		
	Glamis sand fly					
+ <i>Brennania belkini</i>		G1G2 S1S2	None	None	IUCN:VU	
	Belkin's dune tabanid fly					
+ <i>Efferia antiochi</i>		G1G2 S1S2	None	None		
	Antioch efferian robberfly					
+ <i>Efferia macroxipha</i>		G1G2 S1S2	None	None		
	Glamis robberfly					
+ <i>Metapogon hurdi</i>		G1G2 S1S2	None	None		
	Hurd's metapogon robberfly					
+ <i>Paracoenia calida</i>		G1 S1	None	None		
	Wilbur Springs shore fly					
+ <i>Rhaphiomidas terminatus abdominalis</i>		G1T1 S1	Endangered	None		
	Delhi Sands flower-loving fly					
+ <i>Rhaphiomidas terminatus terminatus</i>		G1T1 S1	None	None		
	El Segundo flower-loving fly					
+ <i>Rhaphiomidas trochilus</i>		G1 S1	None	None		
	Valley mydas fly					
<b>INSECTA, Order Lepidoptera (butterflies &amp; moths)</b>						
+ <i>Adela oplerella</i>		G2 S2	None	None		
	Opler's longhorn moth					
+ <i>Apodemia mormo langei</i>		G5T1 S1	Endangered	None	XERCES:CI	
	Lange's metalmark butterfly					
+ <i>Areniscythis brachypteris</i>		G1 S1	None	None		
	Oso Flaco flightless moth					
+ <i>Callophrys comstocki</i>		G3G4 S1S2	None	None	XERCES:IM	
	desert green hairstreak					
+ <i>Callophrys mossii bayensis</i>		G4T1 S1	Endangered	None	XERCES:CI	
	San Bruno elfin butterfly					
+ <i>Callophrys mossii hidakupa</i>		G4T1T2 S1S2	None	None	USFS:S	
	San Gabriel Mountains elfin butterfly					
+ <i>Callophrys mossii marinensis</i>		G4T1 S1	None	None		
	Marin elfin butterfly					
+ <i>Callophrys thornei</i>		G1 S1	None	None	BLM:S	Yes
	Thorne's hairstreak					
+ <i>Carolella busckana</i>		G1G3 SH	None	None		
	Busck's gallmoth					
+ <i>Carterocephalus palaemon magnus</i>		G5T5 S1	None	None		
	Sonoma arctic skipper					
+ <i>Cercyonis pegala carsonensis</i>		G5T1T2 S1S2	None	None		
	Carson Valley wood nymph					
+ <i>Chlosyne leanira elegans</i>		G4G5T1T2 S1S2	None	None		
	Oso Flaco patch butterfly					
+ <i>Coenonympha tullia yontockett</i>		G5T1T2 S1	None	None		
	Yontocket satyr					
+ <i>Danaus plexippus pop. 1</i>		G4T2T3 S2S3	None	None	USFS:S	
	monarch - California overwintering population					
+ <i>Euchloe hyantis andrewsi</i>		G3G4T1 S1	None	None		
	Andrew's marble butterfly					
+ <i>Eucosma henei</i>		G1 S1	None	None		
	Henne's eucosman moth					

## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>INSECTA, Order Lepidoptera (butterflies &amp; moths)</b>						
+ <i>Euphilotes battoides allyni</i> El Segundo blue butterfly		G5T1 S1	Endangered	None	XERCES:CI	
+ <i>Euphilotes battoides comstocki</i> Comstock's blue butterfly		G5T2 S2	None	None		
<i>Euphilotes baueri</i> Bauer's dotted-blue		G2G4 S1S2	None	None	USFS:S XERCES:IM	
+ <i>Euphilotes enoptes smithi</i> Smith's blue butterfly		G5T1T2 S1S2	Endangered	None	XERCES:CI	
<i>Euphilotes mojave</i> Mojave dotted-blue		G2G3 S1S2	None	None	XERCES:IM	
+ <i>Euphydryas editha bayensis</i> Bay checkerspot butterfly		G5T1 S1	Threatened	None	XERCES:CI	
+ <i>Euphydryas editha monoensis</i> Mono checkerspot butterfly		G5T2T3 S1S2	None	None	USFS:S	
+ <i>Euphydryas editha quino</i> quino checkerspot butterfly		G5T1T2 S1S2	Endangered	None	XERCES:CI	
<i>Euphyes vestris harbisoni</i> dun skipper		G5T1T2 S1S2	None	None		
+ <i>Euproserpinus euterpe</i> Kern primrose sphinx moth		G1G2 S1	Threatened	None	XERCES:CI	Yes
+ <i>Glaucopteryx lygdamus palosverdesensis</i> Palos Verdes blue butterfly		G5T1 S1	Endangered	None	XERCES:CI	
+ <i>Hesperia miriamae longaevicola</i> White Mountains skipper		G2G3T1 S1	None	None		
<i>Hesperopsis graciellae</i> MacNeill's sootywing		G2G3 S1S2	None	None	XERCES:VU	
+ <i>Lycaena hermes</i> Hermes copper butterfly		G1 S1	Candidate	None	IUCN:VU USFS:S	
<i>Lycaena rubidus incana</i> White Mountains copper		G5T2T3 S1	None	None		
+ <i>Panoquina errans</i> wandering (=saltmarsh) skipper		G4G5 S2	None	None	IUCN:NT	
+ <i>Philotiella speciosa bohartorum</i> Boharts' blue butterfly		G3G4T1 S1	None	None		
+ <i>Plebejus icarioides albihalos</i> White Mountains icarioides blue butterfly		G5T2T3 S2?	None	None		
+ <i>Plebejus icarioides missionensis</i> Mission blue butterfly		G5T1 S1	Endangered	None	XERCES:CI	
+ <i>Plebejus icarioides moroensis</i> Morro Bay blue butterfly		G5T2 S2	None	None		
+ <i>Plebejus icarioides parapheres</i> Point Reyes blue butterfly		G5T1T2 S1S2	None	None		
+ <i>Plebejus idas lotis</i> lotis blue butterfly		G5TH SH	Endangered	None	XERCES:CI	
+ <i>Plebejus saepiolus albomontanus</i> White Mountains saepiolus blue butterfly		G5T2 S1S2	None	None		
+ <i>Plebejus saepiolus aureolus</i> San Gabriel Mountains blue butterfly		G5T1 S1	None	None	USFS:S	
+ <i>Plebulina emigdionis</i> San Emigdio blue butterfly		G1G2 S1S2	None	None	USFS:S	
+ <i>Polites mardon</i> mardon skipper		G2G3 S1	None	None	USFS:S XERCES:IM	
<i>Polites sabuleti albamontana</i> White Mountains sandhill skipper		G5T2 S2	None	None		
<i>Pseudocopaeodes eunus eunus</i> alkali skipper		G3G4T2 S2	None	None		

**Invertebrates**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>INSECTA, Order Lepidoptera (butterflies &amp; moths)</b>						
+ <i>Pseudocopaeodes eunus obscurus</i> Carson wandering skipper		G3G4T1 S1	Endangered	None	XERCES:CI	
+ <i>Pyrgus ruralis lagunae</i> Laguna Mountains skipper		G5T1 S1	Endangered	None	XERCES:CI	
+ <i>Speyeria adiate adiate</i> unsilvered fritillary		G1G2T1 S1	None	None		
+ <i>Speyeria callippe callippe</i> callippe silverspot butterfly		G5T1 S1	Endangered	None	XERCES:CI	
+ <i>Speyeria egleis tehachapina</i> Tehachapi Mountain silverspot butterfly		G5T2 S2	None	None	USFS:S	
+ <i>Speyeria nokomis carsonensis</i> Carson Valley silverspot		G3T1 S1	None	None		
+ <i>Speyeria zerene behrensii</i> Behren's silverspot butterfly		G5T1 S1	Endangered	None	XERCES:CI	
+ <i>Speyeria zerene hippolyta</i> Oregon silverspot butterfly		G5T1 S1	Threatened	None	XERCES:CI	
+ <i>Speyeria zerene myrtleae</i> Myrtle's silverspot butterfly		G5T1 S1	Endangered	None	XERCES:CI	Yes
+ <i>Speyeria zerene sonomensis</i> Sonoma zerene fritillary		G5T1 S1	None	None		
<b>INSECTA, Order Trichoptera (caddisflies)</b>						
+ <i>Cryptochia denningi</i> Denning's cryptic caddisfly		G1G2 S1S2	None	None		
+ <i>Cryptochia excella</i> Kings Canyon cryptochian caddisfly		G1G2 S1S2	None	None		
+ <i>Cryptochia shasta</i> confusion caddisfly		G1G2 S1S2	None	None		
+ <i>Desmona bethula</i> amphibious caddisfly		G2G3 S2S3	None	None		
+ <i>Diplectrona californica</i> California diplectronan caddisfly		G1G2 S1S2	None	None		
+ <i>Ecclisomyia bilera</i> Kings Creek ecclisomyian caddisfly		G1G2 S1S2	None	None		
+ <i>Farula praelonga</i> long-tailed caddisfly		G1G2 S1S2	None	None		
+ <i>Goeracea oregona</i> Sagehen Creek goeracean caddisfly		G3 S1S2	None	None		
+ <i>Lepidostoma ermanae</i> Cold Spring caddisfly		G1G2 S1S2	None	None		
+ <i>Limnephilus atercus</i> Fort Dick limnephilus caddisfly		G3G4 S1	None	None		
+ <i>Neothremma genella</i> golden-horned caddisfly		G1G2 S1S2	None	None		
<i>Neothremma siskiyou</i> Siskiyou caddisfly		G1G2 S1S2	None	None		
+ <i>Parapsyche extensa</i> King's Creek parapsyche caddisfly		GH SH	None	None		
+ <i>Rhyacophila lineata</i> Castle Crags rhyacophilan caddisfly		G1G3 S1S2	None	None		
+ <i>Rhyacophila mosana</i> bilobed rhyacophilan caddisfly		G1G2Q S1S2	None	None		
+ <i>Rhyacophila spinata</i> spiny rhyacophilan caddisfly		G1G2 S1S2	None	None		
<b>INSECTA, Order Hymenoptera (ants, bees, &amp; wasps)</b>						
+ <i>Andrena blennospermatis</i> Blennosperma vernal pool andrenid bee		G2 S2	None	None		

## Invertebrates

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>INSECTA, Order Hymenoptera (ants, bees, &amp; wasps)</b>						
+ <i>Andrena macswaini</i>	An andrenid bee	G2 S2	None	None		
+ <i>Andrena subapasta</i>	An andrenid bee	G1G2 S1S2	None	None		
+ <i>Argochrysis lassenae</i>	Lassen cuckoo wasp	G1 S1	None	None		
+ <i>Ashmeadiella chumashae</i>	Channel Islands leaf-cutter bee	G2? S2?	None	None		
+ <i>Bombus caliginosus</i>	obscure bumble bee	G4? S1S2	None	None	IUCN:VU	
+ <i>Bombus crotchii</i>	Crotch bumble bee	G3G4 S1S2	None	Candidate Endangered		
+ <i>Bombus franklini</i>	Franklin's bumble bee	G1 S1	None	Candidate Endangered	IUCN:CR XERCES:CI	
+ <i>Bombus morrisoni</i>	Morrison bumble bee	G4G5 S1S2	None	None	IUCN:VU	
+ <i>Bombus occidentalis</i>	western bumble bee	G2G3 S1	None	Candidate Endangered	USFS:S XERCES:IM	
+ <i>Bombus suckleyi</i>	Suckley's cuckoo bumble bee	GU S1	None	Candidate Endangered		
+ <i>Ceratochrysis bradleyi</i>	Bradley's cuckoo wasp	G1 S1	None	None		
+ <i>Ceratochrysis gracilis</i>	Piute Mountains cuckoo wasp	G1 S1	None	None		
+ <i>Ceratochrysis longimala</i>	Desert cuckoo wasp	G1 S1	None	None		
+ <i>Ceratochrysis menkei</i>	Menke's cuckoo wasp	G1 S1	None	None		
+ <i>Chrysis tularensis</i>	Tulare cuckoo wasp	G1G2 S1S2	None	None		
<i>Cleptes humboldti</i>	Humboldt cuckoo wasp	G1G2 S1S2	None	None		
+ <i>Dufourea stagei</i>	Stage's dufourine bee	G1G2 S1	None	None		
+ <i>Eucerceris ruficeps</i>	redheaded sphecid wasp	G1G3 S1S2	None	None		
<i>Euparagia unidentata</i>	Algodones euparagia	G1G2 S1S2	None	None		
<i>Habropoda pallida</i>	white faced bee	G1G2 S1S2	None	None		
+ <i>Halictus harmonius</i>	haromonius halictid bee	G1 S1	None	None	XERCES:CI	
+ <i>Hedychridium argenteum</i>	Riverside cuckoo wasp	G1G2 S1S2	None	None		
+ <i>Hedychridium milleri</i>	Borax Lake cuckoo wasp	G1 S1	None	None		
+ <i>Lasioglossum channelense</i>	Channel Island sweat bee	G1 S1	None	None		
+ <i>Melitta californica</i>	California mellitid bee	G4? S2?	None	None		
<i>Microbembex elegans</i>	Algodones elegant sand wasp	G1G2 S1S2	None	None		
+ <i>Minymischa ventura</i>	Ventura cuckoo wasp	GU SU	None	None		
+ <i>Myrmosula pacifica</i>	Antioch multilid wasp	GH SH	None	None		
<i>Neolarra alba</i>	white cuckoo bee	GH SH	None	None		

**Invertebrates**

<b>Species</b>	<b>Comment</b>	<b>Rank</b>	<b>ESA</b>	<b>CESA</b>	<b>Other Status</b>	<b>Notes</b>
<b>INSECTA, Order Hymenoptera (ants, bees, &amp; wasps)</b>						
+ <i>Paranomada californica</i>		G1 S1	None	None		
California cuckoo bee						
+ <i>Parnopes borregoensis</i>		G1G2 S1S2	None	None		
Borrego parnopes cuckoo wasp						
<i>Perdita algodones</i>		G1G2 S1S2	None	None		
Algodones perdita						
<i>Perdita frontalis</i>		G1G2 S1S2	None	None		
Imperial Perdita						
<i>Perdita glamis</i>		G1G2 S1S2	None	None		
Glamis perdita						
+ <i>Perdita scitula antiochensis</i>		G1T1 S1	None	None		
Antioch andrenid bee						
+ <i>Philanthus nasalis</i>		G1 S1	None	None		
Antioch spicid wasp						
+ <i>Protodufourea wasbaueri</i>		G1 S1	None	None		XERCES:DD
Wasbauer's protodufourea bee						
+ <i>Protodufourea zavortinki</i>		G1 S1	None	None		
Zavortink's protodufourea bee						
+ <i>Rhopalolemma robertsi</i>		G1 S1	None	None		
Roberts' rhopalolemma bee						
<i>Sedomaya glamisensis</i>		G1G2 S1S2	None	None		
Glamis night tiphiid						
<i>Sphaerophthalma ecarinata</i>		G1G2 S1S2	None	None		
Glamis night mutillid						
+ <i>Sphecodogastra antiochensis</i>		G1 S1	None	None		XERCES:CI
Antioch Dunes halciticid bee						
<i>Stictiella villegasi</i>		G1G2 S1S2	None	None		
Algodones sand wasp						
+ <i>Trachusa gummifera</i>		G1 S1	None	None		
San Francisco Bay Area leaf-cutter bee						

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**Fishes**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>PETROMYZONTIDAE (lampreys)</b>						
+ <i>Entosphenus folletti</i> northern California brook lamprey		G1G2Q S1S2	None	None	CDFW:SSC	
+ <i>Entosphenus hubbsi</i> Kern brook lamprey		G1G2 S1S2	None	None	AFS:TH CDFW:SSC IUCN:NT USFS:S	
+ <i>Entosphenus lethophagus</i> Pit-Klamath brook lamprey		G3G4 S3	None	None	AFS:VU CDFW:SSC	
+ <i>Entosphenus similis</i> Klamath River lamprey		G3G4Q S3	None	None	AFS:TH CDFW:SSC USFS:S	
+ <i>Entosphenus tridentatus</i> Pacific lamprey		G4 S4	None	None	AFS:VU BLM:S CDFW:SSC USFS:S	
+ <i>Entosphenus tridentatus ssp. 1</i> Goose Lake lamprey		G4T1 S1	None	None	AFS:VU CDFW:SSC USFS:S	
<i>Lampetra ayresii</i> river lamprey		G4 S3	None	None	AFS:VU CDFW:SSC	
<b>ACIPENSERIDAE (sturgeon)</b>						
+ <i>Acipenser medirostris</i> green sturgeon	(southern DPS)	G3 S1S2	Threatened	None	AFS:VU CDFW:SSC IUCN:NT NMFS:SC	Yes
<i>Acipenser transmontanus</i> white sturgeon		G4 S2	None	None	AFS:EN CDFW:SSC IUCN:LC	
<b>SALMONIDAE (trout &amp; salmon)</b>						
+ <i>Oncorhynchus clarkii clarkii</i> coast cutthroat trout		G4T4 S3	None	None	AFS:VU CDFW:SSC USFS:S	
+ <i>Oncorhynchus clarkii henshawi</i> Lahontan cutthroat trout		G4T3 S2	Threatened	None	AFS:TH	
+ <i>Oncorhynchus clarkii seleniris</i> Paiute cutthroat trout		G4T1T2 S1S2	Threatened	None	AFS:EN	
+ <i>Oncorhynchus gorbuscha</i> pink salmon		G5 S1	None	None		
<i>Oncorhynchus keta</i> chum salmon		G5 S1	None	None		
+ <i>Oncorhynchus kisutch pop. 2</i> coho salmon - southern Oregon / northern California ESU		G4T2Q S2?	Threatened	Threatened	AFS:TH	Yes
+ <i>Oncorhynchus kisutch pop. 4</i> coho salmon - central California coast ESU		G4 S2?	Endangered	Endangered	AFS:EN	Yes
+ <i>Oncorhynchus mykiss aguabonita</i> California golden trout		G5T1 S1	None	None	AFS:TH CDFW:SSC USFS:S	
+ <i>Oncorhynchus mykiss aquilarum</i> Eagle Lake rainbow trout		G5T1Q S1	None	None	AFS:TH CDFW:SSC USFS:S	
+ <i>Oncorhynchus mykiss gilberti</i> Kern River rainbow trout		G5T1Q S1	None	None	AFS:TH CDFW:SSC USFS:S	
<i>Oncorhynchus mykiss irideus pop. 1</i> steelhead - Klamath Mountains Province DPS		G5T3Q S2	None	None	CDFW:SSC USFS:S	Yes

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**Fishes**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>SALMONIDAE (trout &amp; salmon)</b>						
+ <i>Oncorhynchus mykiss irideus</i> pop. 10 steelhead - southern California DPS		G5T1Q S1	Endangered	None	AFS:EN	Yes
+ <i>Oncorhynchus mykiss irideus</i> pop. 11 steelhead - Central Valley DPS		G5T2Q S2	Threatened	None	AFS:TH	Yes
+ <i>Oncorhynchus mykiss irideus</i> pop. 16 steelhead - northern California DPS		G5T2T3Q S2S3	Threatened	None	AFS:TH	Yes
+ <i>Oncorhynchus mykiss irideus</i> pop. 36 summer-run steelhead trout		G5T4Q S2	None	Candidate Endangered	CDFW:SSC	Yes
+ <i>Oncorhynchus mykiss irideus</i> pop. 8 steelhead - central California coast DPS		G5T2T3Q S2S3	Threatened	None	AFS:TH	Yes
+ <i>Oncorhynchus mykiss irideus</i> pop. 9 steelhead - south-central California coast DPS		G5T2Q S2	Threatened	None	AFS:TH	Yes
+ <i>Oncorhynchus mykiss</i> ssp. 1 Goose Lake redband trout		G5T2Q S2	None	None	AFS:VU CDFW:SSC USFS:S	
+ <i>Oncorhynchus mykiss</i> ssp. 2 McCloud River redband trout		G5T1 S1S2	None	None	AFS:VU CDFW:SSC USFS:S	
<i>Oncorhynchus mykiss</i> ssp. 3 Warner Valley redband trout		G5T2Q S1?	None	None	AFS:VU USFS:S	
+ <i>Oncorhynchus mykiss whitei</i> Little Kern golden trout		G5T2 S2	Threatened	None	AFS:EN	
<i>Oncorhynchus tshawytscha</i> pop. 13 chinook salmon - Central Valley fall / late fall-run ESU		G5 S2	None	None	AFS:VU CDFW:SSC NMFS:SC USFS:S	Yes
<i>Oncorhynchus tshawytscha</i> pop. 14 chinook salmon - southern Oregon/northern California coastal		G5T3Q SNR	None	None	CDFW:SSC	
+ <i>Oncorhynchus tshawytscha</i> pop. 17 chinook salmon - California coastal ESU		G5 S1	Threatened	None	AFS:TH	Yes
+ <i>Oncorhynchus tshawytscha</i> pop. 30 chinook salmon - upper Klamath and Trinity Rivers ESU		G5 S1S2	None	Candidate Endangered	CDFW:SSC USFS:S	
+ <i>Oncorhynchus tshawytscha</i> pop. 6 chinook salmon - Central Valley spring-run ESU		G5 S1	Threatened	Threatened	AFS:TH	Yes
+ <i>Oncorhynchus tshawytscha</i> pop. 7 chinook salmon - Sacramento River winter-run ESU		G5 S1	Endangered	Endangered	AFS:EN	
<i>Prosopium williamsoni</i> mountain whitefish		G5 S3	None	None	CDFW:SSC	
+ <i>Salvelinus confluentus</i> bull trout		G4 SX	Threatened	Endangered	IUCN:VU	
<b>OSMERIDAE (smelt)</b>						
+ <i>Hypomesus transpacificus</i> Delta smelt		G1 S1	Threatened	Endangered	AFS:TH IUCN:EN	
+ <i>Spirinchus thaleichthys</i> longfin smelt		G5 S1	Candidate	Threatened		Yes
+ <i>Thaleichthys pacificus</i> eulachon	(southern DPS)	G5 S3	Threatened	None		
<b>CYPRINIDAE (minnows and carp)</b>						
+ <i>Gila coerulea</i> blue chub		G3G4 S2S3	None	None	CDFW:SSC	
+ <i>Gila elegans</i> bonytail		G1 SH	Endangered	Endangered	AFS:EN IUCN:EN	



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Fishes

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>CYPRINIDAE (minnows and carp)</b>						
+ <i>Gila orcuttii</i> arroyo chub		G2 S2	None	None	AFS:VU CDFW:SSC USFS:S	
+ <i>Lavinia exilicauda chi</i> Clear Lake hitch		G4T1 S1	None	Threatened	AFS:VU USFS:S	
<i>Lavinia exilicauda exilicauda</i> Sacramento hitch		G4T2T4 S2S4	None	None	CDFW:SSC	
<i>Lavinia exilicauda harengus</i> Pajaro/Salinas hitch		G4T2T4 S2S4	None	None	CDFW:SSC	
+ <i>Lavinia symmetricus mitrulus</i> Pit roach		G4T2 S2	None	None	AFS:VU CDFW:SSC	
+ <i>Lavinia symmetricus navarroensis</i> Navarro roach		G4T1T2 S2S3	None	None	CDFW:SSC	
+ <i>Lavinia symmetricus parvipinnis</i> Gualala roach		G4T1T2 S2S3	None	None	CDFW:SSC	
+ <i>Lavinia symmetricus ssp. 1</i> San Joaquin roach		G4T3Q S3	None	None	CDFW:SSC	Yes
+ <i>Lavinia symmetricus ssp. 2</i> Tomales roach		G4T2T3 S2	None	None	CDFW:SSC	
+ <i>Lavinia symmetricus ssp. 3</i> Red Hills roach		G4T1 S1	None	None	AFS:VU BLM:S CDFW:SSC	
<i>Lavinia symmetricus ssp. 4</i> Clear Lake - Russian River roach		G4T2T3 S2S3	None	None	CDFW:SSC	
+ <i>Lavinia symmetricus subditus</i> Monterey roach		G4T2T3 S2S3	None	None	CDFW:SSC	
+ <i>Mylopharodon conocephalus</i> hardhead		G3 S3	None	None	CDFW:SSC USFS:S	
+ <i>Pogonichthys macrolepidotus</i> Sacramento splittail		GNR S3	None	None	AFS:VU CDFW:SSC IUCN:EN	
+ <i>Ptychocheilus lucius</i> Colorado pikeminnow		G1 SX	Endangered	Endangered	CDFW:FP IUCN:VU	
+ <i>Rhinichthys osculus ssp. 1</i> Amargosa Canyon speckled dace		G5T1Q S1	None	None	AFS:TH BLM:S CDFW:SSC	Yes
+ <i>Rhinichthys osculus ssp. 2</i> Owens speckled dace		G5T1T2Q S1S2	None	None	AFS:TH CDFW:SSC	Yes
+ <i>Rhinichthys osculus ssp. 3</i> Santa Ana speckled dace		G5T1 S1	None	None	AFS:TH CDFW:SSC USFS:S	
+ <i>Rhinichthys osculus ssp. 5</i> Long Valley speckled dace		G5T1 S1	None	None	AFS:EN BLM:S CDFW:SSC	
+ <i>Siphateles bicolor mohavensis</i> Mohave tui chub		G4T1 S1	Endangered	Endangered	AFS:EN CDFW:FP	
<i>Siphateles bicolor pectinifer</i> Lahontan Lake tui chub		G4T3 S1S2	None	None	CDFW:SSC	
+ <i>Siphateles bicolor snyderi</i> Owens tui chub		G4T1 S1	Endangered	Endangered	AFS:EN	
+ <i>Siphateles bicolor ssp. 1</i> Eagle Lake tui chub		G4T1T2 S1S2	None	None	CDFW:SSC	
+ <i>Siphateles bicolor ssp. 2</i> High Rock Spring tui chub		G4TX SX	None	None		
<i>Siphateles bicolor ssp. 3</i> Pit River tui chub		G4T1T3 S1S3	None	None		
+ <i>Siphateles bicolor thalassinus</i> Goose Lake tui chub		G4T2T3 S2	None	None	AFS:TH CDFW:SSC	

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**Fishes**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>CYPRINIDAE (minnows and carp)</b>						
+ <i>Siphateles bicolor vaccaiceps</i> Cow Head tui chub		G4T1 S1	None	None	AFS:EN CDFW:SSC	
<b>CATOSTOMIDAE (suckers)</b>						
+ <i>Catostomus fumeiventris</i> Owens sucker		G3G4 S3	None	None	CDFW:SSC	
+ <i>Catostomus latipinnis</i> flannelmouth sucker		G3G4 S1	None	None		
+ <i>Catostomus microps</i> Modoc sucker		G2 S2	Delisted	Endangered	AFS:EN CDFW:FP IUCN:EN	
+ <i>Catostomus occidentalis lacusanserinus</i> Goose Lake sucker		G5T2Q S1	None	None	AFS:VU CDFW:SSC USFS:S	
+ <i>Catostomus platyrhynchus</i> mountain sucker		G5 S3	None	None	CDFW:SSC	
<i>Catostomus rimiculus ssp. 1</i> Jenny Creek sucker		G5T2Q S1	None	None	AFS:VU	
+ <i>Catostomus santaanae</i> Santa Ana sucker		G1 S1	Threatened	None	AFS:TH IUCN:VU	
+ <i>Catostomus snyderi</i> Klamath largescale sucker		G3 S3	None	None	AFS:TH CDFW:SSC IUCN:NT	
+ <i>Chasmistes brevirostris</i> shortnose sucker		G1 S1	Endangered	Endangered	AFS:EN CDFW:FP IUCN:EN	
+ <i>Deltistes luxatus</i> Lost River sucker		G1 S1	Endangered	Endangered	AFS:EN CDFW:FP IUCN:EN	
+ <i>Xyrauchen texanus</i> razorback sucker		G1 S1S2	Endangered	Endangered	AFS:EN CDFW:FP IUCN:EN	
<b>CYPRINODONTIDAE (killifishes)</b>						
+ <i>Cyprinodon macularius</i> desert pupfish		G1 S1	Endangered	Endangered	AFS:EN IUCN:VU	
+ <i>Cyprinodon nevadensis amargosae</i> Amargosa pupfish		G2T1T2 S1S2	None	None	AFS:VU BLM:S CDFW:SSC IUCN:VU	
+ <i>Cyprinodon nevadensis nevadensis</i> Saratoga Springs pupfish		G2T1 S1	None	None	AFS:TH CDFW:SSC IUCN:VU	
+ <i>Cyprinodon nevadensis shoshone</i> Shoshone pupfish		G2T1 S1	None	None	AFS:EN CDFW:SSC IUCN:VU	
+ <i>Cyprinodon radiosus</i> Owens pupfish		G1 S1	Endangered	Endangered	AFS:EN CDFW:FP IUCN:EN	
+ <i>Cyprinodon salinus milleri</i> Cottonball Marsh pupfish		G1T1Q S1	None	Threatened	AFS:TH IUCN:EN	
+ <i>Cyprinodon salinus salinus</i> Salt Creek pupfish		G1T1 S1	None	None	AFS:VU CDFW:SSC IUCN:EN	
<b>GASTEROSTEIDAE (sticklebacks)</b>						
<i>Gasterosteus aculeatus microcephalus</i> resident threespine stickleback	(South of Pt. Conception only)	G5T2T3 S2S3	None	None		Yes
<i>Gasterosteus aculeatus santaanae</i> Santa Ana (=Shay Creek) threespine stickleback		G5T1Q S1	None	None	AFS:EN	Yes

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## Fishes

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>GASTEROSTEIDAE (sticklebacks)</b>						
+ <i>Gasterosteus aculeatus williamsoni</i> unarmored threespine stickleback		G5T1 S1	Endangered	Endangered	AFS:EN CDFW:FP	Yes
<b>CENTRARCHIDAE (sunfishes)</b>						
+ <i>Archoplites interruptus</i> Sacramento perch	(Within native range only)	G2G3 S1	None	None	AFS:TH CDFW:SSC	
<b>EMBIOTOCIDAE (surfperches)</b>						
<i>Hysterothorax traskii lagunae</i> Clear Lake tule perch		G5T2T3 S2S3	None	None	CDFW:SSC	
+ <i>Hysterothorax traskii pomo</i> Russian River tule perch		G5T4 S4	None	None	AFS:VU CDFW:SSC	
<i>Hysterothorax traskii traskii</i> Sacramento-San Joaquin tule perch		G5T2T3 S2S3	None	None		
<b>GOBIIDAE (gobies)</b>						
+ <i>Eucyclogobius newberryi</i> tidewater goby		G3 S3	Endangered	None	AFS:EN CDFW:SSC IUCN:VU	
<b>COTTIDAE (sculpins)</b>						
<i>Cottus asper ssp.</i> Clear Lake prickly sculpin		G5T1 SNR	None	None	CDFW:SSC	
+ <i>Cottus asperimus</i> rough sculpin		G2 S2	None	Threatened	AFS:VU BLM:S CDFW:FP IUCN:VU	
<i>Cottus gulosus</i> riffle sculpin		G5 S3S4	None	None	CDFW:SSC	
+ <i>Cottus klamathensis klamathensis</i> Upper Klamath marbled sculpin		G4T1T2 S1S2	None	None	CDFW:SSC	
+ <i>Cottus klamathensis macrops</i> bigeye marbled sculpin		G4T3 S2S3	None	None	AFS:VU CDFW:SSC	
+ <i>Cottus klamathensis polyporus</i> Lower Klamath marbled sculpin		G4T2T4 S2S4	None	None	CDFW:SSC	
<i>Cottus perplexus</i> reticulate sculpin		G4 S2S3	None	None		

## Amphibians

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>AMBYSTOMATIDAE (mole salamanders)</b>						
+ <i>Ambystoma californiense</i> California tiger salamander		G2G3 S2S3	Threatened	Threatened	CDFW:WL IUCN:VU	Yes
+ <i>Ambystoma macrodactylum croceum</i> Santa Cruz long-toed salamander		G5T1T2 S1S2	Endangered	Endangered	CDFW:FP	
+ <i>Ambystoma macrodactylum sigillatum</i> southern long-toed salamander		G5T4 S3	None	None	CDFW:SSC	
<b>DICAMPTODONTIDAE (giant salamanders)</b>						
+ <i>Dicamptodon ensatus</i> California giant salamander		G3 S2S3	None	None	CDFW:SSC IUCN:NT	
<b>RHYACOTRITONIDAE (Olympic salamanders)</b>						
+ <i>Rhyacotriton variegatus</i> southern torrent salamander		G3G4 S2S3	None	None	CDFW:SSC IUCN:LC USFS:S	
<b>SALAMANDRIDAE (newts)</b>						
+ <i>Taricha rivularis</i> red-bellied newt		G4 S2	None	None	CDFW:SSC IUCN:LC	
+ <i>Taricha torosa</i> Coast Range newt	(Monterey Co. & south only)	G4 S4	None	None	CDFW:SSC	
<b>PLETHODONTIDAE (lungless salamanders)</b>						
+ <i>Aneides niger</i> Santa Cruz black salamander		G3 S3	None	None	CDFW:SSC	Yes
+ <i>Batrachoseps altasierrae</i> Greenhorn Mountains slender salamander		G4 S3S4	None	None		
+ <i>Batrachoseps bramei</i> Fairview slender salamander		G3 S3	None	None	USFS:S	
+ <i>Batrachoseps campi</i> Inyo Mountains slender salamander		G3 S3	None	None	BLM:S CDFW:SSC IUCN:EN USFS:S	
<i>Batrachoseps diabolicus</i> Hell Hollow slender salamander		G2 S3	None	None	IUCN:DD	
+ <i>Batrachoseps gabrieli</i> San Gabriel slender salamander		G2G3 S2S3	None	None	IUCN:DD USFS:S	
<i>Batrachoseps incognitus</i> San Simeon slender salamander		G2G3 S2	None	None	IUCN:DD USFS:S	
<i>Batrachoseps kawia</i> Sequoia slender salamander		G1G2 S2	None	None	IUCN:DD	
<i>Batrachoseps luciae</i> Santa Lucia slender salamander		G2G3 S3	None	None	IUCN:LC	
+ <i>Batrachoseps major aridus</i> desert slender salamander		G4T1 S1	Endangered	Endangered		
+ <i>Batrachoseps minor</i> lesser slender salamander		G1 S1	None	None	CDFW:SSC IUCN:DD USFS:S	
+ <i>Batrachoseps pacificus</i> Channel Islands slender salamander		G4 S3S4	None	None	IUCN:LC	
+ <i>Batrachoseps regius</i> Kings River slender salamander		G2 S2S3	None	None	IUCN:VU USFS:S	
+ <i>Batrachoseps relictus</i> relictual slender salamander		G1 S1	None	None	CDFW:SSC IUCN:DD USFS:S	Yes
+ <i>Batrachoseps robustus</i> Kern Plateau salamander		G3 S3	None	None	IUCN:NT	
+ <i>Batrachoseps simatus</i> Kern Canyon slender salamander		G2G3 S2S3	None	Threatened	IUCN:VU USFS:S	

**Amphibians**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>PLETHODONTIDAE (lungless salamanders)</b>						
+ <i>Batrachoseps stebbinsi</i> Tehachapi slender salamander		G2 S2S3	None	Threatened	BLM:S IUCN:VU	
+ <i>Ensatina eschscholtzii croceater</i> yellow-blotched salamander		G5T3 S3	None	None	BLM:S CDFW:WL USFS:S	
+ <i>Ensatina eschscholtzii klauberi</i> large-blotched salamander		G5T2? S3	None	None	CDFW:WL USFS:S	
+ <i>Hydromantes brunus</i> limestone salamander		G2G3 S2S3	None	Threatened	BLM:S CDFW:FP IUCN:VU USFS:S	
+ <i>Hydromantes platycephalus</i> Mount Lyell salamander		G4 S4	None	None	CDFW:WL IUCN:LC	
+ <i>Hydromantes shastae</i> Shasta salamander		G1G2 S3	None	Threatened	BLM:S IUCN:VU USFS:S	
+ <i>Plethodon asupak</i> Scott Bar salamander		G1G2 S1S2	None	Threatened	IUCN:VU	Yes
+ <i>Plethodon elongatus</i> Del Norte salamander		G4 S3	None	None	CDFW:WL IUCN:NT	
+ <i>Plethodon stormi</i> Siskiyou Mountains salamander		G3? S1S2	None	Threatened	IUCN:EN USFS:S	
<b>ASCAPHIDAE (tailed frogs)</b>						
+ <i>Ascaphus truei</i> Pacific tailed frog		G4 S3S4	None	None	CDFW:SSC IUCN:LC	
<b>SCAPHIOPODIDAE (spadefoot toads)</b>						
+ <i>Scaphiopus couchii</i> Couch's spadefoot		G5 S2	None	None	BLM:S CDFW:SSC IUCN:LC	
+ <i>Spea hammondi</i> western spadefoot		G3 S3	None	None	BLM:S CDFW:SSC IUCN:NT	
<b>BUFONIDAE (true toads)</b>						
+ <i>Anaxyrus californicus</i> arroyo toad		G2G3 S2S3	Endangered	None	CDFW:SSC IUCN:EN	Yes
+ <i>Anaxyrus canorus</i> Yosemite toad		G2G3 S2S3	Threatened	None	CDFW:SSC IUCN:EN USFS:S	Yes
+ <i>Anaxyrus exsul</i> black toad		G1 S1	None	Threatened	BLM:S CDFW:FP IUCN:VU USFS:S	Yes
+ <i>Incilius alvarius</i> Sonoran desert toad		G5 SH	None	None	CDFW:SSC IUCN:LC	Yes
<b>RANIDAE (true frogs)</b>						
+ <i>Lithobates pipiens</i> northern leopard frog	(Native populations only)	G5 S2	None	None	CDFW:SSC IUCN:LC	Yes
+ <i>Lithobates yavapaiensis</i> lowland leopard frog		G4 SX	None	None	BLM:S CDFW:SSC IUCN:LC	Yes
+ <i>Rana aurora</i> northern red-legged frog		G4 S3	None	None	CDFW:SSC IUCN:LC USFS:S	Yes
+ <i>Rana boylei</i> foothill yellow-legged frog		G3 S3	None	Candidate Threatened	BLM:S CDFW:SSC IUCN:NT USFS:S	

**Amphibians**

<b>Species</b>	<b>Comment</b>	<b>Rank</b>	<b>ESA</b>	<b>CESA</b>	<b>Other Status</b>	<b>Notes</b>
<b>RANIDAE (true frogs)</b>						
+ <i>Rana cascadae</i> Cascades frog		G3G4 S3	None	Candidate Endangered	CDFW:SSC IUCN:NT USFS:S	Yes
+ <i>Rana draytonii</i> California red-legged frog		G2G3 S2S3	Threatened	None	CDFW:SSC IUCN:VU	Yes
+ <i>Rana muscosa</i> southern mountain yellow-legged frog		G1 S1	Endangered	Endangered	CDFW:WL IUCN:EN USFS:S	Yes
+ <i>Rana pretiosa</i> Oregon spotted frog		G2 SH	Threatened	None	BLM:S CDFW:SSC IUCN:VU	
+ <i>Rana sierrae</i> Sierra Nevada yellow-legged frog		G1 S1	Endangered	Threatened	CDFW:WL IUCN:EN USFS:S	Yes

## Reptiles

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>CHELONIIDAE (sea turtles)</b>						
+ <i>Chelonia mydas</i> green turtle		G3 S1	Threatened	None	IUCN:EN	
<b>KINOSTERNIDAE (musk and mud turtles)</b>						
+ <i>Kinosternon sonoriense</i> Sonoran mud turtle		G4 SH	None	None	CDFW:SSC IUCN:VU	
<b>EMYDIDAE (box and water turtles)</b>						
+ <i>Emys marmorata</i> western pond turtle		G3G4 S3	None	None	BLM:S CDFW:SSC IUCN:VU USFS:S	Yes
<b>TESTUDINIDAE (land tortoises)</b>						
+ <i>Gopherus agassizii</i> desert tortoise		G3 S2S3	Threatened	Threatened	IUCN:VU	
<b>GEKKONIDAE (geckos)</b>						
+ <i>Coleonyx switaki</i> barefoot gecko		G4 S1	None	Threatened	BLM:S IUCN:LC	
+ <i>Coleonyx variegatus abbotti</i> San Diego banded gecko		G5T3T4 S1S2	None	None	CDFW:SSC	
<b>CROTAPHYTIDAE (collared &amp; leopard lizards)</b>						
+ <i>Gambelia copeii</i> Cope's leopard lizard		G5 S1S2	None	None	CDFW:SSC IUCN:LC	
+ <i>Gambelia sila</i> blunt-nosed leopard lizard		G1 S1	Endangered	Endangered	CDFW:FP IUCN:EN	
<b>PHRYNOSOMATIDAE (spiny lizards)</b>						
+ <i>Phrynosoma blainvillii</i> coast horned lizard		G3G4 S3S4	None	None	BLM:S CDFW:SSC IUCN:LC	
+ <i>Phrynosoma mcallii</i> flat-tailed horned lizard		G3 S2	None	None	BLM:S CDFW:SSC IUCN:NT	
+ <i>Sceloporus graciosus graciosus</i> northern sagebrush lizard		G5T5 S3	None	None	BLM:S	
+ <i>Uma inornata</i> Coachella Valley fringe-toed lizard		G1Q S1	Threatened	Endangered	IUCN:EN	
+ <i>Uma notata</i> Colorado Desert fringe-toed lizard		G3 S2	None	None	BLM:S CDFW:SSC IUCN:NT	
+ <i>Uma scoparia</i> Mojave fringe-toed lizard		G3G4 S3S4	None	None	BLM:S CDFW:SSC IUCN:LC	
<b>XANTUSIIDAE (night lizards)</b>						
+ <i>Xantusia gracilis</i> sandstone night lizard		G1 S1	None	None	CDFW:SSC IUCN:VU	
+ <i>Xantusia riversiana</i> island night lizard		G3 S3	Delisted	None	IUCN:LC	
+ <i>Xantusia vigilis sierrae</i> Sierra night lizard		G5T1 S1	None	None	CDFW:SSC USFS:S	Yes
<b>SCINCIDAE (skinks)</b>						
+ <i>Plestiodon skiltonianus interparietalis</i> Coronado skink		G5T5 S2S3	None	None	BLM:S CDFW:WL	
<b>TEIIDAE (whiptails and relatives)</b>						
+ <i>Aspidoscelis hyperythra</i> orange-throated whiptail		G5 S2S3	None	None	CDFW:WL IUCN:LC USFS:S	
+ <i>Aspidoscelis tigris stejnegeri</i> coastal whiptail		G5T5 S3	None	None	CDFW:SSC	

## Reptiles

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>ANGUIDAE (alligator lizards)</b>						
+ <i>Elgaria panamintina</i> Panamint alligator lizard		G3 S3	None	None	BLM:S CDFW:SSC IUCN:VU USFS:S	
<b>ANNIELLIDAE (legless lizards)</b>						
+ <i>Anniella alexanderae</i> Temblor legless lizard		G1 S1	None	None	CDFW:SSC	Yes
+ <i>Anniella campi</i> southern Sierra legless lizard		G1G2 S1S2	None	None	CDFW:SSC USFS:S	Yes
+ <i>Anniella grinnelli</i> Bakersfield legless lizard		G2G3 S2S3	None	None	CDFW:SSC	Yes
+ <i>Anniella pulchra</i> northern California legless lizard		G3 S3	None	None	CDFW:SSC USFS:S	Yes
+ <i>Anniella sp.</i> California legless lizard		G3G4 S3S4	None	None	CDFW:SSC	Yes
+ <i>Anniella stebbinsi</i> southern California legless lizard		G3 S3	None	None	CDFW:SSC USFS:S	Yes
<b>HELODERMATIDAE (venomous lizards)</b>						
+ <i>Heloderma suspectum cinctum</i> banded Gila monster		G4T4 S1	None	None	BLM:S CDFW:SSC IUCN:NT	Yes
<b>BOIDAE (boas)</b>						
+ <i>Charina umbratica</i> southern rubber boa		G2G3 S2S3	None	Threatened	USFS:S	
<b>COLUBRIDAE (egg-laying snakes)</b>						
+ <i>Arizona elegans occidentalis</i> California glossy snake		G5T2 S2	None	None	CDFW:SSC	
+ <i>Diadophis punctatus modestus</i> San Bernardino ringneck snake		G5T2T3 S2?	None	None	USFS:S	
+ <i>Diadophis punctatus regalis</i> regal ringneck snake		GNR S2S3	None	None	CDFW:SSC	
+ <i>Diadophis punctatus similis</i> San Diego ringneck snake		G5T2T3 S2?	None	None	USFS:S	
+ <i>Masticophis flagellum ruddocki</i> San Joaquin coachwhip		G5T2T3 S2?	None	None	CDFW:SSC	
+ <i>Masticophis fuliginosus</i> Baja California coachwhip		G5 S1S2	None	None	CDFW:SSC	
+ <i>Masticophis lateralis euryxanthus</i> Alameda whipsnake		G4T2 S2	Threatened	Threatened		
+ <i>Pituophis catenifer pumilus</i> Santa Cruz Island gophersnake		G5T1T2 S1?	None	None	CDFW:WL	
+ <i>Salvadora hexalepis virgulata</i> coast patch-nosed snake		G5T4 S2S3	None	None	CDFW:SSC	
<b>NATRICIDAE (live-bearing snakes)</b>						
+ <i>Thamnophis gigas</i> giant gartersnake		G2 S2	Threatened	Threatened	IUCN:VU	
+ <i>Thamnophis hammondi</i> two-striped gartersnake		G4 S3S4	None	None	BLM:S CDFW:SSC IUCN:LC USFS:S	
<i>Thamnophis hammondi</i> pop. 1 Santa Catalina gartersnake		G4T1? S1	None	None		
+ <i>Thamnophis sirtalis</i> pop. 1 south coast gartersnake	(Coastal plain from Ventura Co. to San Diego Co., from sea level to about 850 m.)	G5T1T2 S1S2	None	None	CDFW:SSC	Yes



**Reptiles**

<b>Species</b>	<b>Comment</b>	<b>Rank</b>	<b>ESA</b>	<b>CESA</b>	<b>Other Status</b>	<b>Notes</b>
<b>NATRICIDAE (live-bearing snakes)</b>						
+ <i>Thamnophis sirtalis tetrataenia</i> San Francisco gartersnake		G5T2Q S2	Endangered	Endangered	CDFW:FP	
<b>VIPERIIDAE (vipers)</b>						
+ <i>Crotalus ruber</i> red-diamond rattlesnake		G4 S3	None	None	CDFW:SSC USFS:S	

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<b>ANATIDAE (ducks, geese, and swans)</b>						
<i>Anser albifrons elgasi</i> tule greater white-fronted goose	(Wintering)	G5T2 S2S3	None	None	CDFW:SSC	
<i>Aythya americana</i> redhead	(Nesting)	G5 S3S4	None	None	CDFW:SSC IUCN:LC	
<i>Aythya valisineria</i> canvasback	(Nesting)	G5 S2	None	None	IUCN:LC	
<i>Branta bernicla</i> brant	(Wintering & staging)	G5 S2?	None	None	CDFW:SSC IUCN:LC	
+ <i>Branta hutchinsii leucopareia</i> cackling (=Aleutian Canada) goose	(Wintering)	G5T3 S3	Delisted	None	CDFW:WL	
<i>Bucephala islandica</i> Barrow's goldeneye	(Nesting)	G5 S1	None	None	CDFW:SSC IUCN:LC	
+ <i>Dendrocygna bicolor</i> fulvous whistling-duck	(Nesting)	G5 S1	None	None	CDFW:SSC IUCN:LC	
+ <i>Histrionicus histrionicus</i> harlequin duck	(Nesting)	G4 S1	None	None	CDFW:SSC IUCN:LC	
<b>PHASIANIDAE (grouse and ptarmigan)</b>						
+ <i>Bonasa umbellus</i> ruffed grouse		G5 S3S4	None	None	CDFW:WL IUCN:LC	
+ <i>Centrocercus urophasianus</i> greater sage-grouse	(Nesting & leks)	G3G4 S2S3	None	None	BLM:S CDFW:SSC IUCN:NT USFS:S	Yes
+ <i>Dendragapus fuliginosus howardi</i> Mount Pinos sooty grouse		G5T2T3 S2S3	None	None	CDFW:SSC	Yes
<i>Tympanuchus phasianellus columbianus</i> Columbian sharp-tailed grouse		G4T3 SX	None	None	CDFW:SSC	
<b>ODONTOPHORIDAE (partridge and quail)</b>						
<i>Callipepla californica catalinensis</i> Catalina California quail		G5T2 S2	None	None	CDFW:SSC	
<b>GAVIIDAE (loons)</b>						
<i>Gavia immer</i> common loon	(Nesting)	G5 S1	None	None	CDFW:SSC IUCN:LC	
<b>DIOMEDEIDAE (albatross)</b>						
<i>Phoebastria albatrus</i> short-tailed albatross		G1 S1	Endangered	None	CDFW:SSC IUCN:VU NABCI:RWL	
<b>HYDROBATIDAE (storm petrels)</b>						
+ <i>Oceanodroma furcata</i> fork-tailed storm-petrel	(Nesting colony)	G5 S1	None	None	BLM:S CDFW:SSC IUCN:LC	
+ <i>Oceanodroma homochroa</i> ashy storm-petrel	(Nesting colony)	G2 S2	None	None	BLM:S CDFW:SSC IUCN:EN NABCI:RWL USFWS:BCC	
+ <i>Oceanodroma melania</i> black storm-petrel	(Nesting colony)	G3G4 S1	None	None	CDFW:SSC IUCN:LC NABCI:YWL	
<b>PELECANIIDAE (pelicans)</b>						
+ <i>Pelecanus erythrorhynchos</i> American white pelican	(Nesting colony)	G4 S1S2	None	None	CDFW:SSC IUCN:LC	
+ <i>Pelecanus occidentalis californicus</i> California brown pelican	(Nesting colony & communal roosts)	G4T3T4 S3	Delisted	Delisted	BLM:S CDFW:FP USFS:S	

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<b>PHALACROCORACIDAE (cormorants)</b>						
+ <i>Phalacrocorax auritus</i> double-crested cormorant	(Nesting colony)	G5 S4	None	None	CDFW:WL IUCN:LC	
<b>ARDEIDAE (herons, egrets, and bitterns)</b>						
+ <i>Ardea alba</i> great egret	(Nesting colony)	G5 S4	None	None	CDF:S IUCN:LC	
+ <i>Ardea herodias</i> great blue heron	(Nesting colony)	G5 S4	None	None	CDF:S IUCN:LC	
<i>Botaurus lentiginosus</i> American bittern		G4 S3S4	None	None	IUCN:LC	
+ <i>Egretta thula</i> snowy egret	(Nesting colony)	G5 S4	None	None	IUCN:LC	
+ <i>Ixobrychus exilis</i> least bittern	(Nesting)	G4G5 S2	None	None	CDFW:SSC IUCN:LC USFWS:BCC	
+ <i>Nycticorax nycticorax</i> black-crowned night heron	(Nesting colony)	G5 S4	None	None	IUCN:LC	
<b>THRESKIORNITHIDAE (ibises and spoonbills)</b>						
+ <i>Plegadis chihi</i> white-faced ibis	(Nesting colony)	G5 S3S4	None	None	CDFW:WL IUCN:LC	
<b>CICONIIDAE (storks)</b>						
<i>Mycteria americana</i> wood stork		G4 S2?	None	None	CDFW:SSC IUCN:LC	
<b>CATHARTIDAE (New World vultures)</b>						
+ <i>Gymnogyps californianus</i> California condor		G1 S1	Endangered	Endangered	CDF:S CDFW:FP IUCN:CR NABCI:RWL	
<b>PANDIONIDAE (osprey)</b>						
+ <i>Pandion haliaetus</i> osprey	(Nesting)	G5 S4	None	None	CDF:S CDFW:WL IUCN:LC	
<b>ACCIPITRIDAE (hawks, kites, harriers, &amp; eagles)</b>						
+ <i>Accipiter cooperii</i> Cooper's hawk	(Nesting)	G5 S4	None	None	CDFW:WL IUCN:LC	
+ <i>Accipiter gentilis</i> northern goshawk	(Nesting)	G5 S3	None	None	BLM:S CDF:S CDFW:SSC IUCN:LC USFS:S	
+ <i>Accipiter striatus</i> sharp-shinned hawk	(Nesting)	G5 S4	None	None	CDFW:WL IUCN:LC	
+ <i>Aquila chrysaetos</i> golden eagle	(Nesting & wintering)	G5 S3	None	None	BLM:S CDF:S CDFW:FP CDFW:WL IUCN:LC USFWS:BCC	
+ <i>Buteo regalis</i> ferruginous hawk	(Wintering)	G4 S3S4	None	None	CDFW:WL IUCN:LC USFWS:BCC	
+ <i>Buteo swainsoni</i> Swainson's hawk	(Nesting)	G5 S3	None	Threatened	BLM:S IUCN:LC USFWS:BCC	
+ <i>Circus hudsonius</i> northern harrier	(Nesting)	G5 S3	None	None	CDFW:SSC IUCN:LC	Yes

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<b>ACCIPITRIDAE (hawks, kites, harriers, &amp; eagles)</b>						
+ <i>Elanus leucurus</i> white-tailed kite	(Nesting)	G5 S3S4	None	None	BLM:S CDFW:FP IUCN:LC	
+ <i>Haliaeetus leucocephalus</i> bald eagle	(Nesting & wintering)	G5 S3	Delisted	Endangered	BLM:S CDF:S CDFW:FP IUCN:LC USFS:S USFWS:BCC	
<i>Parabuteo unicinctus</i> Harris' hawk	(Nesting)	G5 S1	None	None	CDFW:WL IUCN:LC	
<b>FALCONIDAE (falcons)</b>						
+ <i>Falco columbarius</i> merlin	(Wintering)	G5 S3S4	None	None	CDFW:WL IUCN:LC	
+ <i>Falco mexicanus</i> prairie falcon	(Nesting)	G5 S4	None	None	CDFW:WL IUCN:LC USFWS:BCC	
+ <i>Falco peregrinus anatum</i> American peregrine falcon	(Nesting)	G4T4 S3S4	Delisted	Delisted	CDF:S CDFW:FP USFWS:BCC	
<b>RALLIDAE (rails, coots, and gallinules)</b>						
+ <i>Coturnicops noveboracensis</i> yellow rail		G4 S1S2	None	None	CDFW:SSC IUCN:LC NABCI:RWL USFS:S USFWS:BCC	
+ <i>Laterallus jamaicensis coturniculus</i> California black rail		G3G4T1 S1	None	Threatened	BLM:S CDFW:FP IUCN:NT NABCI:RWL USFWS:BCC	Yes
+ <i>Rallus obsoletus levipes</i> light-footed Ridgway's rail		G5T1T2 S1	Endangered	Endangered	CDFW:FP NABCI:RWL	Yes
+ <i>Rallus obsoletus obsoletus</i> California Ridgway's rail		G5T1 S1	Endangered	Endangered	CDFW:FP NABCI:RWL	
+ <i>Rallus obsoletus yumanensis</i> Yuma Ridgway's rail		G5T3 S1S2	Endangered	Threatened	CDFW:FP NABCI:RWL	Yes
<b>GRUIDAE (cranes)</b>						
<i>Antigone canadensis canadensis</i> lesser sandhill crane	(Wintering)	G5T4 S3S4	None	None	CDFW:SSC	
+ <i>Antigone canadensis tabida</i> greater sandhill crane	(Nesting & wintering)	G5T4 S2	None	Threatened	BLM:S CDFW:FP USFS:S	
<b>CHARADRIIDAE (plovers and relatives)</b>						
+ <i>Charadrius alexandrinus nivosus</i> western snowy plover	(Nesting)	G3T3 S2S3	Threatened	None	CDFW:SSC NABCI:RWL USFWS:BCC	Yes
+ <i>Charadrius montanus</i> mountain plover	(Wintering)	G3 S2S3	None	None	BLM:S CDFW:SSC IUCN:NT NABCI:RWL USFWS:BCC	Yes
<b>SCOLOPACIDAE (sandpipers and relatives)</b>						
<i>Numenius americanus</i> long-billed curlew	(Nesting)	G5 S2	None	None	CDFW:WL IUCN:LC NABCI:YWL USFWS:BCC	

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<b>LARIDAE (gulls and terns)</b>						
+ <i>Chlidonias niger</i> black tern	(Nesting colony)	G4 S2	None	None	CDFW:SSC IUCN:LC	
+ <i>Gelochelidon nilotica</i> gull-billed tern	(Nesting colony)	G5 S1	None	None	CDFW:SSC IUCN:LC NABCI:YWL USFWS:BCC	Yes
+ <i>Hydroprogne caspia</i> Caspian tern	(Nesting colony)	G5 S4	None	None	IUCN:LC USFWS:BCC	Yes
+ <i>Larus californicus</i> California gull	(Nesting colony)	G5 S4	None	None	CDFW:WL IUCN:LC	
<i>Leucophaeus atricilla</i> laughing gull	(Nesting colony)	G5 S1	None	None	CDFW:WL IUCN:LC	
+ <i>Rynchops niger</i> black skimmer	(Nesting colony)	G5 S2	None	None	CDFW:SSC IUCN:LC NABCI:YWL USFWS:BCC	
+ <i>Sternula antillarum browni</i> California least tern	(Nesting colony)	G4T2T3Q S2	Endangered	Endangered	CDFW:FP NABCI:RWL	Yes
<i>Thalasseus elegans</i> elegant tern	(Nesting colony)	G2 S2	None	None	CDFW:WL IUCN:NT	Yes
<b>ALCIDAE (auklets, puffins, and relatives)</b>						
+ <i>Brachyramphus marmoratus</i> marbled murrelet	(Nesting)	G3G4 S1	Threatened	Endangered	CDF:S IUCN:EN NABCI:RWL	
+ <i>Cerorhinca monocerata</i> rhinoceros auklet	(Nesting colony)	G5 S3	None	None	CDFW:WL IUCN:LC	
+ <i>Fratercula cirrhata</i> tufted puffin	(Nesting colony)	G5 S1S2	None	None	CDFW:SSC IUCN:LC	
<i>Ptychoramphus aleuticus</i> Cassin's auklet	(Nesting colony)	G4 S2S4	None	None	CDFW:SSC IUCN:LC USFWS:BCC	
+ <i>Synthliboramphus scrippsi</i> Scripps's murrelet	(Nesting colony)	G3 S2	Candidate	Threatened	BLM:S IUCN:VU NABCI:RWL USFWS:BCC	Yes
<b>CUCULIDAE (cuckoos and relatives)</b>						
+ <i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	(Nesting)	G5T2T3 S1	Threatened	Endangered	BLM:S NABCI:RWL USFS:S USFWS:BCC	
<b>STRIGIDAE (owls)</b>						
+ <i>Asio flammeus</i> short-eared owl	(Nesting)	G5 S3	None	None	CDFW:SSC IUCN:LC	
+ <i>Asio otus</i> long-eared owl	(Nesting)	G5 S3?	None	None	CDFW:SSC IUCN:LC	
+ <i>Athene cunicularia</i> burrowing owl	(Burrow sites & some wintering sites)	G4 S3	None	None	BLM:S CDFW:SSC IUCN:LC USFWS:BCC	Yes
+ <i>Micrathene whitneyi</i> elf owl	(Nesting)	G5 S1	None	Endangered	BLM:S IUCN:LC USFWS:BCC	
+ <i>Psiloscoops flammeolus</i> flamulated owl	(Nesting)	G4 S2S4	None	None	IUCN:LC NABCI:YWL USFWS:BCC	

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Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>STRIGIDAE (owls)</b>						
+ <i>Strix nebulosa</i> great gray owl	(Nesting)	G5 S1	None	Endangered	CDF:S IUCN:LC USFS:S	
<i>Strix occidentalis caurina</i> northern spotted owl		G3T3 S2S3	Threatened	Threatened	CDF:S IUCN:NT NABCI:YWL	Yes
<i>Strix occidentalis occidentalis</i> California spotted owl		G3G4T2T3 S3	None	None	BLM:S CDFW:SSC IUCN:NT USFS:S USFWS:BCC	Yes
<b>APODIDAE (swifts)</b>						
<i>Chaetura vauxi</i> Vaux's swift	(Nesting)	G5 S2S3	None	None	CDFW:SSC IUCN:LC	
+ <i>Cypseloides niger</i> black swift	(Nesting)	G4 S2	None	None	CDFW:SSC IUCN:LC NABCI:YWL USFWS:BCC	
<b>TROCHILIDAE (hummingbirds)</b>						
<i>Calypte costae</i> Costa's hummingbird	(Nesting)	G5 S4	None	None	IUCN:LC USFWS:BCC	
<i>Selasphorus rufus</i> rufous hummingbird	(Nesting)	G5 S1S2	None	None	IUCN:LC NABCI:YWL USFWS:BCC	
<b>PICIDAE (woodpeckers)</b>						
+ <i>Colaptes chrysoides</i> gilded flicker		G5 S1	None	Endangered	BLM:S IUCN:LC NABCI:YWL USFWS:BCC	
+ <i>Melanerpes lewis</i> Lewis' woodpecker	(Nesting)	G4 S4	None	None	IUCN:LC NABCI:YWL USFWS:BCC	
+ <i>Melanerpes uropygialis</i> Gila woodpecker		G5 S1	None	Endangered	BLM:S IUCN:LC USFWS:BCC	
+ <i>Picoides arcticus</i> black-backed woodpecker	(Nesting)	G5 S2	None	None		
+ <i>Sphyrapicus ruber</i> red-breasted sapsucker	(Nesting)	G5 S4	None	None		
<b>TYRANNIDAE (tyrant flycatchers)</b>						
+ <i>Contopus cooperi</i> olive-sided flycatcher	(Nesting)	G4 S4	None	None	CDFW:SSC IUCN:NT NABCI:YWL USFWS:BCC	
+ <i>Empidonax traillii</i> willow flycatcher	(Nesting)	G5 S1S2	None	Endangered	IUCN:LC USFS:S USFWS:BCC	Yes
+ <i>Empidonax traillii brewsteri</i> little willow flycatcher	(Nesting)	G5T3T4 S1S2	None	Endangered	USFWS:BCC	Yes
+ <i>Empidonax traillii extimus</i> southwestern willow flycatcher	(Nesting)	G5T2 S1	Endangered	Endangered	NABCI:RWL	Yes
+ <i>Myiarchus tyrannulus</i> brown-crested flycatcher	(Nesting)	G5 S3	None	None	CDFW:WL IUCN:LC	
+ <i>Pyrocephalus rubinus</i> vermillion flycatcher	(Nesting)	G5 S2S3	None	None	CDFW:SSC IUCN:LC	

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**Birds**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>LANIIDAE (shrikes)</b>						
+ <i>Lanius ludovicianus</i> loggerhead shrike	(Nesting)	G4 S4	None	None	CDFW:SSC IUCN:LC USFWS:BCC	
<i>Lanius ludovicianus anthonyi</i> Island loggerhead shrike		G4T1 S1	None	None	CDFW:SSC NABCI:RWL	
+ <i>Lanius ludovicianus mearnsi</i> San Clemente loggerhead shrike		G4T1Q S1	Endangered	None	CDFW:SSC NABCI:RWL	Yes
<b>VIREONIDAE (vireos)</b>						
+ <i>Vireo bellii arizonae</i> Arizona bell's vireo	(Nesting)	G5T4 S1S2	None	Endangered	BLM:S IUCN:NT USFWS:BCC	Yes
+ <i>Vireo bellii pusillus</i> least Bell's vireo	(Nesting)	G5T2 S2	Endangered	Endangered	IUCN:NT NABCI:YWL	Yes
<i>Vireo huttoni unitti</i> Catalina Hutton's vireo		G5T2? S2?	None	None	CDFW:SSC	
+ <i>Vireo vicinior</i> gray vireo	(Nesting)	G4 S2	None	None	BLM:S CDFW:SSC IUCN:LC NABCI:YWL USFS:S USFWS:BCC	
<b>CORVIDAE (jays, crows, and magpies)</b>						
<i>Aphelocoma californica cana</i> Eagle Mountain scrub-jay		G5T3Q S3Q	None	None	CDFW:WL	
<i>Aphelocoma insularis</i> Island scrub-jay		G1 S1	None	None	IUCN:NT NABCI:RWL USFWS:BCC	
<i>Pica nuttalli</i> yellow-billed magpie	(Nesting & communal roosts)	G3G4 S3S4	None	None	IUCN:LC NABCI:YWL USFWS:BCC	
<b>ALAUDIDAE (larks)</b>						
+ <i>Eremophila alpestris actia</i> California horned lark		G5T4Q S4	None	None	CDFW:WL IUCN:LC	
<b>HIRUNDINIDAE (swallows)</b>						
+ <i>Progne subis</i> purple martin	(Nesting)	G5 S3	None	None	CDFW:SSC IUCN:LC	
+ <i>Riparia riparia</i> bank swallow	(Nesting)	G5 S2	None	Threatened	BLM:S IUCN:LC	
<b>PARIDAE (titmice and relatives)</b>						
+ <i>Baeolophus inornatus</i> oak titmouse	(Nesting)	G4 S4	None	None	IUCN:LC NABCI:YWL USFWS:BCC	
<i>Poecile atricapillus</i> black-capped chickadee		G5 S3	None	None	CDFW:WL IUCN:LC	
<b>TROGLODYTIDAE (wrens)</b>						
+ <i>Campylorhynchus brunneicapillus sandiegensis</i> coastal cactus wren	(San Diego & Orange Counties only)	G5T3Q S3	None	None	CDFW:SSC USFS:S USFWS:BCC	Yes
<i>Cistothorus palustris clarkae</i> Clark's marsh wren		G5T2T3 S2S3	None	None	CDFW:SSC	
<i>Thryomanes bewickii leucophrys</i> San Clemente Bewick's wren		G5TX SX	None	None	CDFW:SSC	
<b>POLIOPTILIDAE (gnatcatchers)</b>						
+ <i>Polioptila californica californica</i> coastal California gnatcatcher		G4G5T2Q S2	Threatened	None	CDFW:SSC NABCI:YWL	Yes

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**Birds**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>POLIOPTILIDAE (gnatcatchers)</b>						
+ <i>Polioptila melanura</i> black-tailed gnatcatcher		G5 S3S4	None	None	CDFW:WL IUCN:LC	
<b>MIMIDAE (mockingbirds and thrashers)</b>						
+ <i>Toxostoma bendirei</i> Bendire's thrasher		G4G5 S3	None	None	BLM:S CDFW:SSC IUCN:VU NABCI:RWL USFWS:BCC	
+ <i>Toxostoma crissale</i> Crissal thrasher		G5 S3	None	None	CDFW:SSC IUCN:LC	
+ <i>Toxostoma lecontei</i> Le Conte's thrasher		G4 S3	None	None	CDFW:SSC IUCN:LC NABCI:RWL USFWS:BCC	Yes
<b>PASSERELLIDAE (sparrows)</b>						
+ <i>Aimophila ruficeps canescens</i> southern California rufous-crowned sparrow		G5T3 S3	None	None	CDFW:WL	
<i>Aimophila ruficeps obscura</i> Santa Cruz Island rufous-crowned sparrow		G5T2T3 S2S3	None	None	CDFW:SSC	
+ <i>Ammodramus savannarum</i> grasshopper sparrow	(Nesting)	G5 S3	None	None	CDFW:SSC IUCN:LC	
+ <i>Artemisiospiza belli belli</i> Bell's sage sparrow		G5T2T3 S3	None	None	CDFW:WL USFWS:BCC	Yes
+ <i>Artemisiospiza belli clementeae</i> San Clemente sage sparrow		G5T1Q S1	Threatened	None	CDFW:SSC NABCI:YWL USFWS:BCC	Yes
+ <i>Junco hyemalis caniceps</i> gray-headed junco	(Nesting)	G5T5 S1	None	None	CDFW:WL	
+ <i>Melospiza melodia</i> song sparrow ("Modesto" population)		G5 S3?	None	None	CDFW:SSC	
+ <i>Melospiza melodia graminea</i> Channel Island song sparrow		G5T1 S1	None	None	CDFW:SSC USFWS:BCC	Yes
+ <i>Melospiza melodia maxillaris</i> Suisun song sparrow		G5T3 S3	None	None	CDFW:SSC USFWS:BCC	
+ <i>Melospiza melodia pusillula</i> Alameda song sparrow		G5T2? S2S3	None	None	CDFW:SSC USFWS:BCC	
+ <i>Melospiza melodia samuelis</i> San Pablo song sparrow		G5T2 S2	None	None	CDFW:SSC USFWS:BCC	
<i>Melozona aberti</i> Abert's towhee		G3G4 S3	None	None	IUCN:LC	
+ <i>Melozona crissalis eremophilus</i> Inyo California towhee		G4G5T2 S2	Threatened	Endangered	NABCI:RWL	Yes
<i>Passerculus sandwichensis alaudinus</i> Bryant's savannah sparrow		G5T2T3 S2S3	None	None	CDFW:SSC	
+ <i>Passerculus sandwichensis beldingi</i> Belding's savannah sparrow		G5T3 S3	None	Endangered		
<i>Passerculus sandwichensis rostratus</i> large-billed savannah sparrow	(Wintering)	G5T2T3Q S2	None	None	CDFW:SSC	
<i>Pipilo maculatus clementae</i> San Clemente spotted towhee		G5T1 S1S2	None	None	CDFW:SSC USFWS:BCC	
<i>Poocetes gramineus affinis</i> Oregon vesper sparrow	(Wintering)	G5T3? S3?	None	None	CDFW:SSC NABCI:RWL USFWS:BCC	
+ <i>Spizella breweri</i> Brewer's sparrow	(Nesting)	G5 S4	None	None	IUCN:LC USFWS:BCC	



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**Birds**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>ICTERIIDAE (yellow-breasted chats)</b>						
+ <i>Icteria virens</i> yellow-breasted chat	(Nesting)	G5 S3	None	None	CDFW:SSC IUCN:LC	
<b>ICTERIDAE (blackbirds)</b>						
<i>Agelaius phoeniceus aciculatus</i> Kern red-winged blackbird		G5T1T2 S1S2	None	None	CDFW:SSC	
+ <i>Agelaius tricolor</i> tricolored blackbird	(Nesting colony)	G2G3 S1S2	None	Threatened	BLM:S CDFW:SSC IUCN:EN NABCI:RWL USFWS:BCC	Yes
+ <i>Xanthocephalus xanthocephalus</i> yellow-headed blackbird	(Nesting)	G5 S3	None	None	CDFW:SSC IUCN:LC	
<b>PARULIDAE (wood-warblers)</b>						
+ <i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat		G5T3 S3	None	None	CDFW:SSC USFWS:BCC	Yes
+ <i>Oreothlypis luciae</i> Lucy's warbler	(Nesting)	G5 S2S3	None	None	BLM:S CDFW:SSC IUCN:LC USFWS:BCC	
+ <i>Oreothlypis virginiae</i> Virginia's warbler	(Nesting)	G5 S2	None	None	CDFW:WL IUCN:LC NABCI:YWL USFWS:BCC	
+ <i>Setophaga petechia</i> yellow warbler	(Nesting)	G5 S3S4	None	None	CDFW:SSC USFWS:BCC	Yes
+ <i>Setophaga petechia sonorana</i> Sonoran yellow warbler	(Nesting)	G5T2T3 S2	None	None	CDFW:SSC USFWS:BCC	Yes
<b>CARDINALIDAE (cardinals)</b>						
+ <i>Cardinalis cardinalis</i> northern cardinal		G5 S1	None	None	CDFW:WL IUCN:LC	
+ <i>Piranga flava</i> hepatic tanager	(Nesting)	G5 S1	None	None	CDFW:WL IUCN:LC	
+ <i>Piranga rubra</i> summer tanager	(Nesting)	G5 S1	None	None	CDFW:SSC IUCN:LC	
<b>FRINGILLIDAE (finches and relatives)</b>						
+ <i>Spinus lawrencei</i> Lawrence's goldfinch	(Nesting)	G3G4 S3S4	None	None	IUCN:LC NABCI:YWL USFWS:BCC	

**Mammals**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>TALPIDAE (moles)</b>						
+ <i>Scapanus latimanus insularis</i> Angel Island mole		G5THQ SH	None	None		
+ <i>Scapanus latimanus parvus</i> Alameda Island mole		G5THQ SH	None	None	CDFW:SSC	
<b>SORICIDAE (shrews)</b>						
+ <i>Sorex lyelli</i> Mount Lyell shrew		G3G4 S3S4	None	None	CDFW:SSC IUCN:LC	
+ <i>Sorex ornatus relictus</i> Buena Vista Lake ornate shrew		G5T1 S1	Endangered	None	CDFW:SSC	
+ <i>Sorex ornatus salarius</i> Monterey shrew		G5T1T2 S1S2	None	None	CDFW:SSC	
+ <i>Sorex ornatus salicornicus</i> southern California saltmarsh shrew		G5T1? S1	None	None	CDFW:SSC	
+ <i>Sorex ornatus sinuosus</i> Suisun shrew		G5T1T2Q S1S2	None	None	CDFW:SSC	
+ <i>Sorex ornatus willetti</i> Santa Catalina shrew		G5T1 S1	None	None	CDFW:SSC	
+ <i>Sorex vagrans halicoetes</i> salt-marsh wandering shrew		G5T1 S1	None	None	CDFW:SSC	
<i>Sorex vagrans paludivagus</i> Monterey vagrant shrew		G5T1 S1	None	None		
<b>PHYLLOSTOMIDAE (leaf-nosed bats)</b>						
+ <i>Choeronycteris mexicana</i> Mexican long-tongued bat		G4 S1	None	None	CDFW:SSC IUCN:NT WBWG:H	
+ <i>Leptonycteris yerbabuenae</i> lesser long-nosed bat		G4 S1	Delisted	None	CDFW:SSC IUCN:VU WBWG:H	Yes
+ <i>Macrotus californicus</i> California leaf-nosed bat		G4 S3	None	None	BLM:S CDFW:SSC IUCN:LC WBWG:H	
<b>VESPERTILIONIDAE (evening bats)</b>						
+ <i>Antrozous pallidus</i> pallid bat		G5 S3	None	None	BLM:S CDFW:SSC IUCN:LC USFS:S WBWG:H	
+ <i>Corynorhinus townsendii</i> Townsend's big-eared bat		G3G4 S2	None	None	BLM:S CDFW:SSC IUCN:LC USFS:S WBWG:H	
+ <i>Euderma maculatum</i> spotted bat		G4 S3	None	None	BLM:S CDFW:SSC IUCN:LC WBWG:H	
+ <i>Lasionycteris noctivagans</i> silver-haired bat		G5 S3S4	None	None	IUCN:LC WBWG:M	
+ <i>Lasiurus blossevillii</i> western red bat		G5 S3	None	None	CDFW:SSC IUCN:LC WBWG:H	Yes
+ <i>Lasiurus cinereus</i> hoary bat		G5 S4	None	None	IUCN:LC WBWG:M	
+ <i>Lasiurus xanthinus</i> western yellow bat		G5 S3	None	None	CDFW:SSC IUCN:LC WBWG:H	Yes

**Mammals**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>VESPERTILIONIDAE (evening bats)</b>						
+ <i>Myotis ciliolabrum</i> western small-footed myotis		G5 S3	None	None	BLM:S IUCN:LC WBWG:M	
+ <i>Myotis evotis</i> long-eared myotis		G5 S3	None	None	BLM:S IUCN:LC WBWG:M	
<i>Myotis lucifugus</i> little brown bat	(San Bernardino Mountains population)	G3 S2S3	None	None	IUCN:LC WBWG:M	
+ <i>Myotis occultus</i> Arizona Myotis		G4 S1	None	None	CDFW:SSC IUCN:LC WBWG:M	
+ <i>Myotis thysanodes</i> fringed myotis		G4 S3	None	None	BLM:S IUCN:LC USFS:S WBWG:H	
+ <i>Myotis velifer</i> cave myotis		G5 S1	None	None	BLM:S CDFW:SSC IUCN:LC WBWG:M	
+ <i>Myotis volans</i> long-legged myotis		G5 S3	None	None	IUCN:LC WBWG:H	
+ <i>Myotis yumanensis</i> Yuma myotis		G5 S4	None	None	BLM:S IUCN:LC WBWG:LM	
<b>MOLOSSIDAE (free-tailed bats)</b>						
+ <i>Eumops perotis californicus</i> western mastiff bat		G5T4 S3S4	None	None	BLM:S CDFW:SSC WBWG:H	
+ <i>Nyctinomops femorosaccus</i> pocketed free-tailed bat		G4 S3	None	None	CDFW:SSC IUCN:LC WBWG:M	
+ <i>Nyctinomops macrotis</i> big free-tailed bat		G5 S3	None	None	CDFW:SSC IUCN:LC WBWG:MH	
<b>OCHOTONIDAE (pikas)</b>						
+ <i>Ochotona princeps schisticeps</i> gray-headed pika		G5T2T4 S2S4	None	None	IUCN:NT	
<b>LEPORIDAE (rabbits and hares)</b>						
+ <i>Brachylagus idahoensis</i> pygmy rabbit		G4 S3	None	None	BLM:S CDFW:SSC IUCN:LC USFS:S	
+ <i>Lepus americanus klamathensis</i> Oregon snowshoe hare		G5T3T4Q S2	None	None	CDFW:SSC	
+ <i>Lepus americanus tahoensis</i> Sierra Nevada snowshoe hare		G5T3T4Q S2	None	None	CDFW:SSC	
+ <i>Lepus californicus bennettii</i> San Diego black-tailed jackrabbit		G5T3T4 S3S4	None	None	CDFW:SSC	
+ <i>Lepus townsendii townsendii</i> western white-tailed jackrabbit		G5T5 S3?	None	None	CDFW:SSC	
+ <i>Sylvilagus bachmani riparius</i> riparian brush rabbit		G5T1 S1	Endangered	Endangered		
<b>ERETHIZONTIDAE (New World porcupines)</b>						
+ <i>Erethizon dorsatum</i> North American porcupine		G5 S3	None	None	IUCN:LC	

**Mammals**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>APLODONTIDAE (mountain beavers)</b>						
+ <i>Aplodontia rufa californica</i> Sierra Nevada mountain beaver		G5T3T4 S2S3	None	None	CDFW:SSC IUCN:LC	Yes
+ <i>Aplodontia rufa humboldtiana</i> Humboldt mountain beaver		G5TNR SNR	None	None		
+ <i>Aplodontia rufa nigra</i> Point Arena mountain beaver		G5T1 S1	Endangered	None	CDFW:SSC IUCN:LC	Yes
+ <i>Aplodontia rufa phaea</i> Point Reyes mountain beaver		G5T2 S2	None	None	CDFW:SSC IUCN:LC	Yes
<b>SCIURIDAE (squirrels and relatives)</b>						
+ <i>Ammospermophilus nelsoni</i> Nelson's antelope squirrel		G2 S2S3	None	Threatened	BLM:S IUCN:EN	
<i>Callospermophilus lateralis bernardinus</i> San Bernardino golden-mantled ground squirrel		G5T1 S1	None	None		
+ <i>Glaucomys oregonensis californicus</i> San Bernardino flying squirrel		G5T1T2 S1S2	None	None	CDFW:SSC USFS:S IUCN:LC	
<i>Neotamias alpinus</i> Alpine chipmunk		G3 S3	None	None		
+ <i>Neotamias panamintinus acrus</i> Kingston Mountain chipmunk		G4T1T2 S1S2	None	None		
+ <i>Neotamias speciosus callipeplus</i> Mount Pinos chipmunk		G4T1T2 S2	None	None	USFS:S	
+ <i>Neotamias speciosus speciosus</i> lodgepole chipmunk		G4T2T3 S2S3	None	None		
<i>Urocitellus mollis</i> Piute ground squirrel		G5 S3	None	None	IUCN:LC	
+ <i>Xerospermophilus mohavensis</i> Mohave ground squirrel		G2G3 S2S3	None	Threatened	BLM:S IUCN:VU	
+ <i>Xerospermophilus tereticaudus chlorus</i> Palm Springs round-tailed ground squirrel		G5T2Q S2	None	None	BLM:S CDFW:SSC	
<b>GEOMYIDAE (pocket gophers)</b>						
<i>Thomomys bottae operarius</i> Owens Lake pocket gopher		G5T1? S1?	None	None		
<b>HETEROMYIDAE (kangaroo rats, pocket mice, &amp; kangaroo mice)</b>						
+ <i>Chaetodipus californicus femoralis</i> Dulzura pocket mouse		G5T3 S3	None	None	CDFW:SSC	
+ <i>Chaetodipus fallax fallax</i> northwestern San Diego pocket mouse		G5T3T4 S3S4	None	None	CDFW:SSC	Yes
+ <i>Chaetodipus fallax pallidus</i> pallid San Diego pocket mouse		G5T34 S3S4	None	None	CDFW:SSC	Yes
+ <i>Dipodomys californicus eximius</i> Marysville California kangaroo rat		G4T1 S1	None	None	CDFW:SSC	
<i>Dipodomys heermanni arenae</i> Lompoc kangaroo rat		G3G4T1T2 S1S2	None	None		
+ <i>Dipodomys heermanni berkeleyensis</i> Berkeley kangaroo rat		G3G4T1 S1	None	None		
+ <i>Dipodomys heermanni dixonii</i> Merced kangaroo rat		G3G4T2T3 S2S3	None	None		
<i>Dipodomys heermanni goldmani</i> Salinas kangaroo rat		G3G4T2T3 S2S3	None	None		
<i>Dipodomys heermanni heermanni</i> Heermann's kangaroo rat		G3G4T2 S2	None	None		
+ <i>Dipodomys heermanni morroensis</i> Morro Bay kangaroo rat		G3G4TH SH	Endangered	Endangered	CDFW:FP	

**Mammals**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>HETEROMYIDAE (kangaroo rats, pocket mice, &amp; kangaroo mice)</b>						
+ <i>Dipodomys ingens</i> giant kangaroo rat		G1G2 S1S2	Endangered	Endangered	IUCN:EN	
+ <i>Dipodomys merriami collinus</i> Earthquake Merriam's kangaroo rat		G5T2? S1S2	None	None		
+ <i>Dipodomys merriami parvus</i> San Bernardino kangaroo rat		G5T1 S1	Endangered	None	CDFW:SSC	
<i>Dipodomys merriami trinidadensis</i> Valle de la Trinidad kangaroo rat		G5T2T3Q S2	None	None		
+ <i>Dipodomys nitratooides brevinasus</i> short-nosed kangaroo rat		G3T1T2 S1S2	None	None	BLM:S CDFW:SSC IUCN:VU	
+ <i>Dipodomys nitratooides exilis</i> Fresno kangaroo rat		G3TH SH	Endangered	Endangered	IUCN:VU	
+ <i>Dipodomys nitratooides nitratooides</i> Tipton kangaroo rat		G3T1T2 S1S2	Endangered	Endangered	IUCN:VU	
+ <i>Dipodomys panamintinus argusensis</i> Argus Mountains kangaroo rat		G5T1T3 S1S3	None	None		
+ <i>Dipodomys panamintinus panamintinus</i> Panamint kangaroo rat		G5T3 S3	None	None		
<i>Dipodomys simulans</i> Dulzura kangaroo rat		G4 S3	None	None	IUCN:LC	
+ <i>Dipodomys stephensi</i> Stephens' kangaroo rat		G2 S2	Endangered	Threatened	IUCN:EN	
+ <i>Dipodomys venustus elephantinus</i> big-eared kangaroo rat		G4T2 S2	None	None	CDFW:SSC	
<i>Dipodomys venustus sanctiluciae</i> Santa Lucia Mountain kangaroo rat		G4TNR SNR	None	None		
+ <i>Dipodomys venustus venustus</i> Santa Cruz kangaroo rat		G4T1 S1	None	None		
+ <i>Perognathus alticola alticola</i> white-eared pocket mouse		G1G2TH SH	None	None	BLM:S CDFW:SSC IUCN:EN USFS:S	Yes
+ <i>Perognathus alticola inexpectatus</i> Tehachapi pocket mouse		G1G2T1T2 S1S2	None	None	CDFW:SSC IUCN:EN USFS:S	Yes
+ <i>Perognathus inornatus</i> San Joaquin Pocket Mouse		G2G3 S2S3	None	None	BLM:S IUCN:LC	Yes
+ <i>Perognathus inornatus psammophilus</i> Salinas pocket mouse		G4T2? S1	None	None	CDFW:SSC	
+ <i>Perognathus longimembris bangsi</i> Palm Springs pocket mouse		G5T2 S2	None	None	BLM:S CDFW:SSC	
+ <i>Perognathus longimembris brevinasus</i> Los Angeles pocket mouse		G5T1T2 S1S2	None	None	CDFW:SSC	
+ <i>Perognathus longimembris internationalis</i> Jacumba pocket mouse		G5T2T3 S2	None	None	CDFW:SSC	
+ <i>Perognathus longimembris pacificus</i> Pacific pocket mouse		G5T1 S1	Endangered	None	CDFW:SSC	
<i>Perognathus longimembris salinensis</i> Saline Valley pocket mouse		G5T1 S1	None	None		
<i>Perognathus longimembris tularensis</i> Tulare pocket mouse		G5T1 S1	None	None		
+ <i>Perognathus mollipilosus xanthonotus</i> yellow-eared pocket mouse		G5T2T3 S1S2	None	None	BLM:S	

**Mammals**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>MURIDAE (mice, rats, and voles)</b>						
+ <i>Arborimus albipes</i> white-footed vole		G3G4 S2	None	None	CDFW:SSC IUCN:LC	
+ <i>Arborimus pomo</i> Sonoma tree vole		G3 S3	None	None	CDFW:SSC IUCN:NT	
<i>Microtus californicus halophilus</i> Monterey vole		G5T1 S1	None	None		
+ <i>Microtus californicus mohavensis</i> Mohave river vole		G5T1 S1	None	None	CDFW:SSC	
+ <i>Microtus californicus sanpabloensis</i> San Pablo vole		G5T1T2 S1S2	None	None	CDFW:SSC	
+ <i>Microtus californicus scirpensis</i> Amargosa vole		G5T1 S1	Endangered	Endangered		
+ <i>Microtus californicus stephensi</i> south coast marsh vole		G5T1T2 S1S2	None	None	CDFW:SSC	
+ <i>Microtus californicus vallicola</i> Owens Valley vole		G5T3 S3	None	None	BLM:S CDFW:SSC	
+ <i>Neotoma albigula venusta</i> Colorado Valley woodrat		G5T3T4 S1S2	None	None		
+ <i>Neotoma fuscipes annectens</i> San Francisco dusky-footed woodrat		G5T2T3 S2S3	None	None	CDFW:SSC	
+ <i>Neotoma fuscipes riparia</i> riparian (=San Joaquin Valley) woodrat		G5T1Q S1	Endangered	None	CDFW:SSC	Yes
+ <i>Neotoma lepida intermedia</i> San Diego desert woodrat		G5T3T4 S3S4	None	None	CDFW:SSC	
+ <i>Neotoma macrotis luciana</i> Monterey dusky-footed woodrat		G5T3 S3	None	None	CDFW:SSC IUCN:DD	
+ <i>Onychomys torridus ramona</i> southern grasshopper mouse		G5T3 S3	None	None	CDFW:SSC	
+ <i>Onychomys torridus tularensis</i> Tulare grasshopper mouse		G5T1T2 S1S2	None	None	BLM:S CDFW:SSC	
+ <i>Peromyscus maniculatus anacapae</i> Anacapa Island deer mouse		G5T1T2 S1S2	None	None	CDFW:SSC	
<i>Peromyscus maniculatus clementis</i> San Clemente deer mouse		G5T1T2 S1S2	None	None	CDFW:SSC	
+ <i>Reithrodontomys megalotis distichlis</i> Salinas harvest mouse		G5T1 S1	None	None		
+ <i>Reithrodontomys megalotis santacruzae</i> Santa Cruz harvest mouse		G5T1Q S1	None	None		Yes
+ <i>Reithrodontomys raviventris</i> salt-marsh harvest mouse		G1G2 S1S2	Endangered	Endangered	CDFW:FP IUCN:EN	
+ <i>Sigmodon arizonae plenus</i> Colorado River cotton rat		G5T2T3 S1S2	None	None	CDFW:SSC	
+ <i>Sigmodon hispidus eremicus</i> Yuma hispid cotton rat		G5T2T3 S2	None	None	CDFW:SSC	
<b>DIPODIDAE (jumping mice)</b>						
+ <i>Zapus trinotatus orarius</i> Point Reyes jumping mouse		G5T1T3Q S1S3	None	None	CDFW:SSC	
<b>CANIDAE (foxes, wolves, and coyotes)</b>						
+ <i>Canis lupus</i> gray wolf		G4 S1	Endangered	Endangered	IUCN:LC	
<i>Urocyon littoralis</i> island fox	(Mapped by subspecies)	G1 S1	None	Threatened	IUCN:CR	Yes
+ <i>Urocyon littoralis catalinae</i> Santa Catalina Island fox		G1T1 S1	Threatened	Threatened	IUCN:CR	Yes
+ <i>Urocyon littoralis clementae</i> San Clemente Island fox		G1T1 S1	None	Threatened	IUCN:CR	Yes

**Mammals**

Species	Comment	Rank	ESA	CESA	Other Status	Notes
<b>CANIDAE (foxes, wolves, and coyotes)</b>						
+ <i>Urocyon littoralis dickeyi</i> San Nicolas Island fox		G1T1 S1	None	Threatened	IUCN:CR	Yes
+ <i>Urocyon littoralis littoralis</i> San Miguel Island fox		G1T1 S1	Delisted	Threatened	IUCN:CR	Yes
+ <i>Urocyon littoralis santacruzae</i> Santa Cruz Island fox		G1T1 S1	Delisted	Threatened	IUCN:CR	Yes
+ <i>Urocyon littoralis santarosae</i> Santa Rosa Island fox		G1T1 S1	Delisted	Threatened	IUCN:CR	Yes
+ <i>Vulpes macrotis mutica</i> San Joaquin kit fox		G4T2 S2	Endangered	Threatened		
+ <i>Vulpes vulpes necator</i> Sierra Nevada red fox		G5T1T2 S1	Candidate	Threatened	USFS:S	
<i>Vulpes vulpes patwin</i> Sacramento Valley red fox		G5T2 S2	None	None		
<b>MUSTELIDAE (weasels and relatives)</b>						
+ <i>Enhydra lutris nereis</i> southern sea otter		G4T2 S2	Threatened	None	CDFW:FP IUCN:EN MMC:SSC	Yes
+ <i>Gulo gulo</i> California wolverine		G4 S1	Proposed Threatened	Threatened	CDFW:FP IUCN:NT USFS:S	
+ <i>Lontra canadensis sonora</i> southwestern river otter		G5T1 S1	None	None	CDFW:SSC	Yes
+ <i>Martes caurina</i> Pacific marten		G5 S3	None	None	IUCN:LC USFS:S	
+ <i>Martes caurina humboldtensis</i> Humboldt marten		G5T1 S1	None	Endangered	CDFW:SSC USFS:S	
+ <i>Martes caurina sierrae</i> Sierra marten		G5T3 S3	None	None	USFS:S	
<i>Mustela frenata inyoensis</i> Inyo long-tailed weasel		G5T2Q S2	None	None		
<i>Mustela frenata xanthogenys</i> San Joaquin long-tailed weasel		G5T2T3 S2S3	None	None		
+ <i>Pekania pennanti</i> fisher - West Coast DPS		G5T2T3Q S2S3	None	Threatened	BLM:S CDFW:SSC USFS:S	Yes
+ <i>Taxidea taxus</i> American badger		G5 S3	None	None	CDFW:SSC IUCN:LC	
<b>MEPHITIDAE (skunks)</b>						
+ <i>Spilogale gracilis amphiala</i> Channel Islands spotted skunk		G5T3 S3	None	None	CDFW:SSC	
<b>FELIDAE (cats and relatives)</b>						
<i>Lynx rufus pallascens</i> pallid bobcat		G5T3? S3?	None	None		
+ <i>Puma concolor browni</i> Yuma mountain lion		G5T1T2Q S1	None	None	CDFW:SSC	
<b>OTARIIDAE (sea lions and fur seals)</b>						
+ <i>Arctocephalus townsendi</i> Guadalupe fur-seal		G1 S1	Threatened	Threatened	CDFW:FP IUCN:NT	
+ <i>Callorhinus ursinus</i> northern fur-seal		G3 S1	None	None	IUCN:VU	
+ <i>Eumetopias jubatus</i> Steller (=northern) sea-lion		G3 S2	Delisted	None	IUCN:EN MMC:SSC	
<b>BOVIDAE (sheep and relatives)</b>						
+ <i>Ovis canadensis nelsoni</i> desert bighorn sheep		G4T4 S3	None	None	BLM:S CDFW:FP USFS:S	Yes

**Mammals**

<b>Species</b>	<b>Comment</b>	<b>Rank</b>	<b>ESA</b>	<b>CESA</b>	<b>Other Status</b>	<b>Notes</b>
<b>BOVIDAE (sheep and relatives)</b>						
+ <i>Ovis canadensis nelsoni</i> pop. 2 Peninsular bighorn sheep DPS		G4T3Q S1	Endangered	Threatened	CDFW:FP	Yes
+ <i>Ovis canadensis sierrae</i> Sierra Nevada bighorn sheep		G4T2 S2	Endangered	Endangered	CDFW:FP	



## End Notes

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### Invertebrates

#### **GASTROPODA (Snails, slugs and abalone)**

*Prophysaon coeruleum*

Blue-gray taildropper slug

- 1) May be a species complex.

#### **ARACHNIDA (Spiders and relatives)**

*Hubbardia shoshonensis*

Shoshone Cave whip-scorpion

- 1) BLM Sensitive Species list has this species as *Trithyreus shoshonensis*.

#### **CRUSTACEA, Order Amphipoda (amphipods)**

*Hyalella muerta*

Texas Spring amphipod

- 1) First North American hypogean hyalellid.

*Hyalella sandra*

Death Valley amphipod

- 1) Population in Texas Springs is an accidental introduction. Population in Nevares Springs may be a new species.

#### **INSECTA, Order Coleoptera (beetles)**

*Trigonoscuta sp.*

Doyen's trigonoscuta dune weevil

- 1) Sometimes referred to as "*Trigonoscuta doyeri*" which is an unpublished manuscript name.

#### **INSECTA, Order Lepidoptera (butterflies & moths)**

*Callophrys thornei*

Thorne's hairstreak

- 1) Formerly *Mitoura thornei*; changed to *Callophrys thornei*.

*Euproserpinus euterpe*

Kern primrose sphinx moth

- 1) Known from 2 sites at the south end of California's Central Valley. Until its rediscovery in Kern Co in 1974, this moth had been thought to be extinct. A 2nd population was recently found in SLO (Xerces Society 2005).

*Speyeria zerene myrtleae*

Myrtle's silverspot butterfly

- 1) The USFWS and others have not yet determined if the taxonomic expansion by Emmel and Emmel (1998) into *S. z. myrtleae* and *S. z. puntareyes* is warranted. The *Speyeria zerene* along coast of Marin and Sonoma Counties are Federally Endangered under the subspecies concept in the 1992 listing.

### Fishes

#### **ACIPENSERIDAE (sturgeon)**

*Acipenser medirostris*

green sturgeon

- 1) Federal listing includes all spawning populations south of the Eel River.
- 2) The NMFS "Special Concern" designation refers to the northern DPS which includes spawning populations north of the Eel River (inclusive).

#### **SALMONIDAE (trout & salmon)**

*Oncorhynchus kisutch pop. 2*

coho salmon - southern Oregon / northern California ESU

- 1) Federal listing refers to populations between Cape Blanco, Oregon & Punta Gorda, Humboldt Co. California.
- 2) State listing refers to populations between the Oregon border & Punta Gorda, Humboldt Co. California.

*Oncorhynchus kisutch pop. 4*

coho salmon - central California coast ESU

- 1) The federal listing is limited to naturally spawning populations in streams between Punta Gorda, Humboldt Co. and the San Lorenzo River, Santa Cruz Co.

## Fishes

### SALMONIDAE (trout & salmon)

*Oncorhynchus kisutch* pop. 4

coho salmon - central California coast ESU

- 2) The state listing is limited to Coho south of Punta Gorda, Humboldt Co.

*Oncorhynchus mykiss irideus* pop. 1

steelhead - Klamath Mountains Province DPS

- 1) This ESU includes all naturally spawned populations residing in streams between the Elk River in Oregon and the Klamath River in California, inclusive.
- 2) The SSC designation refers only to the California portion of the ESU and refers only to the summer-run.

*Oncorhynchus mykiss irideus* pop. 10

steelhead - southern California DPS

- 1) The federal designation refers to fish in the coastal basins from the Santa Maria River (inclusive), south to the U.S. - Mexico Border.
- 2) The DFG "Species of Special Concern" designation refers to southern steelhead trout.

*Oncorhynchus mykiss irideus* pop. 11

steelhead - Central Valley DPS

- 1) Federal listing includes all runs in the Sacramento & San Joaquin Rivers and their tributaries.

*Oncorhynchus mykiss irideus* pop. 16

steelhead - northern California DPS

- 1) The federal designation refers to naturally spawned populations residing below impassable barriers in coastal basins from Redwood Creek in Humboldt Co. to, and including, the Gualala River in Mendocino Co.
- 2) The DFG "Species of Special Concern" designation refers only to the summer-run.

*Oncorhynchus mykiss irideus* pop. 36

summer-run steelhead trout

- 1) Summer-run steelhead are part of both the Klamath Mountains Province DPS and the Northern California DPS.
- 2) CESA candidacy is for northern California summer-run steelhead

*Oncorhynchus mykiss irideus* pop. 8

steelhead - central California coast DPS

- 1) Federal listing includes all runs in coastal basins from the Russian River in Sonoma County, south to Soquel Creek in Santa Cruz County, inclusive. It includes the San Francisco and San Pablo Bay basins, but excludes the Sacramento-San Joaquin River basins.

*Oncorhynchus mykiss irideus* pop. 9

steelhead - south-central California coast DPS

- 1) Federal listing includes all runs in coastal basins from the Pajaro River south to, but not including, the Santa Maria River.
- 2) The DFG "Species of Special Concern" designation refers to southern steelhead trout.

*Oncorhynchus tshawytscha* pop. 13

chinook salmon - Central Valley fall / late fall-run ESU

- 1) The Central Valley fall/late fall-run ESU refers to populations spawning in the Sacramento & San Joaquin Rivers and their tributaries.
- 2) The DFG "Species of Special Concern" designation refers only to the fall-run.

*Oncorhynchus tshawytscha* pop. 17

chinook salmon - California coastal ESU

- 1) Originally proposed as part of a larger Southern Oregon & California Coastal ESU. This new ESU was revised to include only naturally spawned coastal spring & fall-run chinook salmon between Redwood Creek in Humboldt Co & the Russian River in Sonoma Co.

*Oncorhynchus tshawytscha* pop. 6

chinook salmon - Central Valley spring-run ESU

- 1) Federal listing refers to the Central Valley Spring-run ESU. It includes populations spawning in the Sacramento River & its tributaries.

## Fishes

### OSMERIDAE (smelt)

*Spirinchus thaleichthys*

longfin smelt

- 1) AFS Threatened designation take from: Musick, J.T. et al. 2000. "Marine, Estuarine, and Diadromous Fish Stocks at Risk of Extinction in North America (Exclusive of Pacific Salmonids). Fisheries 25(11):6-30.
- 2) Federal Candidate status is for the San Francisco Bay-Delta DPS of the longfin smelt.

### CYPRINIDAE (minnows and carp)

*Lavinia symmetricus ssp. 1*

San Joaquin roach

- 1) Current taxonomy considers this taxon to be a population of *Lavinia symmetricus symmetricus*, the Sacramento-San Joaquin roach.

*Rhinichthys osculus ssp. 1*

Amargosa Canyon speckled dace

- 1) Current taxonomy considers this taxon to be a distinct population of *Rhinichthys osculus nevadensis*.

*Rhinichthys osculus ssp. 2*

Owens speckled dace

- 1) Current taxonomy includes the Benton Valley speckled dace (formerly ssp 4) with the Owens speckled dace.

### GASTEROSTEIDAE (sticklebacks)

*Gasterosteus aculeatus microcephalus*

resident threespine stickleback

- 1) The U.S. Forest Service "Sensitive" designation refers to the full species.

*Gasterosteus aculeatus santaannae*

Santa Ana (=Shay Creek) threespine stickleback

- 1) The U.S. Forest Service "Sensitive" designation refers to the full species.

*Gasterosteus aculeatus williamsoni*

unarmored threespine stickleback

- 1) The U.S. Forest Service "Sensitive" designation refer to the full species.

## Amphibians

### AMBYSTOMATIDAE (mole salamanders)

*Ambystoma californiense*

California tiger salamander

- 1) Central Valley DPS federally listed as threatened. Santa Barbara & Sonoma counties DPS federally listed as endangered.

### PLETHODONTIDAE (lungless salamanders)

*Aneides niger*

Santa Cruz black salamander

- 1) Scientific name changed to reflect currently accepted subspecies concept.

*Batrachoseps relictus*

relictual slender salamander

- 1) Taxonomy follows Jockusch, Martinez-Solano, Hansen, Wake (2012. Morphological and molecular diversification of slender salamanders (Caudata: Plethodontidae: Batrachoseps) in the southern Sierra Nevada of California with descriptions of two new species. Zootaxa 3190:130), which synonymized *Batrachoseps* Sp. 1, Breckenridge Mountain slender salamander, with *B. relictus*.

*Plethodon asupak*

Scott Bar salamander

- 1) Newly described species from what was part of the range of *Plethodon stormi* (Mead et al. 2005).
- 2) Since this newly described species was formerly considered to be a subpopulation of *Plethodon stormi*, and since *Plethodon stormi* is listed as Threatened under the California Endangered Species Act (CESA), *Plethodon asupak* retains the designation as a Threatened species under CESA (Calif. Regulatory Notice Register, No. 21-Z, p.916, 25 May 2007).

## Amphibians

### BUFONIDAE (true toads)

#### *Anaxyrus californicus*

##### arroyo toad

- 1) Formerly *Bufo microscaphus californicus*, now considered a full species.
- 2) At the time of listing, arroyo toad was known as *Bufo microscaphus californicus*, a subspecies of southwestern toad. In 2001 it was determined to be its own species, *Bufo californicus*. Since then, many species in the genus *Bufo* were changed to the genus *Anaxyrus*, and now arroyo toad is known as *Anaxyrus californicus* (Frost et al. 2006).

#### *Anaxyrus canorus*

##### Yosemite toad

- 1) Formerly *Bufo canorus*; Frost, Grant, Faivovich, Bain, Haas, Haddad, De Sá, Channing, Wilkinson, Donnellan, Raxworthy, Campbell, Blotto, Moler, Drewes, Nussbaum, Lynch, Green & Wheeler (2006. The Amphibian Tree of Life. Bulletin of the American Museum of Natural History 297: 1-370) placed this species in the genus *Anaxyrus* (Tschudi, 1845). The standard common name remains Yosemite toad.
- 2) The USFWS published a final rule on April 29, 2014, to list the Yosemite toad as Threatened. The effective date for this rule is June 30, 2014.

#### *Anaxyrus exsul*

##### black toad

- 1) Formerly *Bufo exsul*; Frost, Grant, Faivovich, Bain, Haas, Haddad, De Sá, Channing, Wilkinson, Donnellan, Raxworthy, Campbell, Blotto, Moler, Drewes, Nussbaum, Lynch, Green & Wheeler (2006. The Amphibian Tree of Life. Bulletin of the American Museum of Natural History 297: 1-370) placed this species in the genus *Anaxyrus* (Tschudi, 1845). The standard common name remains black toad.

#### *Incilius alvarius*

##### Sonoran desert toad

- 1) Formerly *Bufo alvarius*. Between 2006 & 2009 the scientific name has been changed to *Cranopsis alvaria*, to *Ollotis alvaria*, to *Incilius alvarius*, back to *Ollotis alvarius* and then back to *Incilius alvarius*. The common name has changed from Colorado River toad to Sonoran desert toad.

### RANIDAE (true frogs)

#### *Lithobates pipiens*

##### northern leopard frog

- 1) Formerly *Rana pipiens*; Frost, Grant, Faivovich, Bain, Haas, Haddad, De Sá, Channing, Wilkinson, Donnellan, Raxworthy, Campbell, Blotto, Moler, Drewes, Nussbaum, Lynch, Green & Wheeler (2006. The Amphibian Tree of Life. Bulletin of the American Museum of Natural History 297: 1-370) placed this species in the genus *Lithobates* (Fitzinger, 1843). The standard common name remains northern leopard frog.

#### *Lithobates yavapaiensis*

##### lowland leopard frog

- 1) Formerly *Rana yavapaiensis*; Frost, Grant, Faivovich, Bain, Haas, Haddad, De Sá, Channing, Wilkinson, Donnellan, Raxworthy, Campbell, Blotto, Moler, Drewes, Nussbaum, Lynch, Green & Wheeler (2006. The Amphibian Tree of Life. Bulletin of the American Museum of Natural History 297: 1-370) placed this species in the genus *Lithobates* (Fitzinger, 1843). The standard common name remains lowland leopard frog.

#### *Rana aurora*

##### northern red-legged frog

- 1) A recent mtDNA study (Shaffer et al. 2004) concludes that *Rana aurora aurora* and *Rana aurora draytonii* should be recognized as separate species with a narrow zone of overlap.

#### *Rana cascadae*

##### Cascades frog

- 1) Notice of Finding from the California Fish and Game Commission published on 17 Oct 2017 announced that *R. cascadae* is a candidate Threatened or Endangered species.

#### *Rana draytonii*

##### California red-legged frog

- 1) A recent mtDNA study (Shaffer et al. 2004) concludes that *Rana aurora aurora* and *Rana aurora draytonii* should be recognized as separate species with a narrow zone of overlap, and that the range of *draytonii* extends about 100 km further north in coastal California than previously thought.

#### *Rana muscosa*

##### southern mountain yellow-legged frog

- 1) Federal listing refers to populations in the San Gabriel, San Jacinto & San Bernardino Mountains (southern DPS).
- 2) Federal Proposed status refers to all populations that occur north of the Tehachapi Mountains in the Sierra Nevada (northern DPS). The USFWS published a final rule on April 29, 2014, to list the northern DPS of *Rana muscosa* as Endangered. This rule becomes effective June 30, 2014.

## Amphibians

### RANIDAE (true frogs)

#### *Rana muscosa*

southern mountain yellow-legged frog

- 3) *Rana muscosa* has been split into *Rana sierrae*, the Sierra Nevada yellow-legged frog, found in the northern and central Sierra Nevada and *Rana muscosa*, the southern mountain yellow-legged frog, found in the southern Sierra Nevada and southern California.

#### *Rana sierrae*

Sierra Nevada yellow-legged frog

- 1) Formerly *Rana muscosa*. *Rana muscosa* has been split into *Rana sierrae*, the Sierra Nevada yellow-legged frog, found in the northern and central Sierra Nevada and *Rana muscosa*, the southern mountain yellow-legged frog, found in the southern Sierra Nevada and southern California.
- 2) *Rana sierrae* is a federally proposed endangered species (Apr 2013).
- 3) The USFWS published a final rule on April 29, 2014, to list the Sierra Nevada yellow-legged frog as Endangered. This rule becomes effective June 30, 2014.

## Reptiles

### EMYDIDAE (box and water turtles)

#### *Emys marmorata*

western pond turtle

- 1) The paper: Spinks, Phillip Q. & H. Bradley Shaffer. 2005. Range-wide molecular analysis of the western pond turtle (*Emys marmorata*): cryptic variation, isolation by distance, and their conservation implications. *Molecular Ecology* (2005) 14, 2047-2064. determined that the current subspecies split was not warranted. Therefore, we are now tracking the western pond turtle only at the full species level.
- 2) The paper: Spinks, Phillip Q., & H. Bradley Shaffer. 2009. Conflicting Mitochondrial and Nuclear Phylogenies for the Widely Disjunct *Emys* (Testudines: Emydidae) Species Complex, and What They Tell Us about Biogeography and Hybridization. *Systematic Biology*. 58(1): pp. 1-20 determined that the correct genus name is *Emys*.

### XANTUSIIDAE (night lizards)

#### *Xantusia vigilis sierrae*

Sierra night lizard

- 1) Scientific name changed to reflect currently accepted subspecies concept.

### ANNIELLIDAE (legless lizards)

#### *Anniella alexanderae*

Temblor legless lizard

- 1) Legless lizards (*Anniella* sp.) in California were traditionally considered 1 species, but are now considered 5 species (Pappenfuss & Parham 2013). The prior (Jennings & Hayes 1994) and current (Thompson et al. 2016) Species of Special Concern (SSC) project evaluated the traditional single species taxon and determined all legless lizards in California to be an SSC. Therefore, the SSC status is carried over to the new taxon concepts until further SSC evaluation.

#### *Anniella campi*

southern Sierra legless lizard

- 1) Legless lizards (*Anniella* sp.) in California were traditionally considered 1 species, but are now considered 5 species (Pappenfuss & Parham 2013). The prior (Jennings & Hayes 1994) and current (Thompson et al. 2016) Species of Special Concern (SSC) project evaluated the traditional single species taxon and determined all legless lizards in California to be an SSC. Therefore, the SSC status is carried over to the new taxon concepts until further SSC evaluation.

#### *Anniella grinnelli*

Bakersfield legless lizard

- 1) Legless lizards (*Anniella* sp.) in California were traditionally considered 1 species, but are now considered 5 species (Pappenfuss & Parham 2013). The prior (Jennings & Hayes 1994) and current (Thompson et al. 2016) Species of Special Concern (SSC) project evaluated the traditional single species taxon and determined all legless lizards in California to be an SSC. Therefore, the SSC status is carried over to the new taxon concepts until further SSC evaluation.

#### *Anniella pulchra*

northern California legless lizard

- 1) Legless lizards (*Anniella* sp.) in California were traditionally considered 1 species, but are now considered 5 species (Pappenfuss & Parham 2013). The prior (Jennings & Hayes 1994) and current (Thompson et al. 2016) Species of Special Concern (SSC) project evaluated the traditional single species taxon and determined all legless lizards in California to be an SSC. Therefore, the SSC status is carried over to the new taxon concepts until further SSC evaluation.

## Reptiles

### ANNIELLIDAE (legless lizards)

*Anniella sp.*

California legless lizard

- 1) This element represents California records of *Anniella* not yet assigned to new species within the *Anniella pulchra* complex. Legless lizards (*Anniella sp.*) in California were traditionally considered 1 species, but are now considered 5 species (Pappenfuss & Parham 2013). CNDDDB has assigned new species concepts to most, but not all previously known and extant legless lizard occurrences. Where an occurrence of a legless lizard is not known to the species level, the general concept California legless lizard (*Anniella sp.*) will be applied until further evidence is available. All legless lizards in California are a Species of Special Concern (Thomson et al. 2016).

*Anniella stebbinsi*

southern California legless lizard

- 1) Legless lizards (*Anniella sp.*) in California were traditionally considered 1 species, but are now considered 5 species (Pappenfuss & Parham 2013). The prior (Jennings & Hayes 1994) and current (Thomson et al. 2016) Species of Special Concern (SSC) project evaluated the traditional single species taxon and determined all legless lizards in California to be an SSC. Therefore, the SSC status is carried over to the new taxon concepts until further SSC evaluation.

### HELODERMATIDAE (venomous lizards)

*Heloderma suspectum cinctum*

banded Gila monster

- 1) The BLM "Sensitive Species" designation refers to the full species.

### NATRICIDAE (live-bearing snakes)

*Thamnophis sirtalis pop. 1*

south coast gartersnake

- 1) CDFW "Species of Special Concern" treats this population as a distinct taxon, though it is more commonly treated as a subpopulation of *Thamnophis sirtalis infernalis*, the California red-sided gartersnake.

## Birds

### PHASIANIDAE (grouse and ptarmigan)

*Centrocercus urophasianus*

greater sage-grouse

- 1) As of Oct 2013, the Bi-State DPS of greater sage-grouse (Mono Basin; Mono, Alpine, & Inyo Co.) have a federal status of Proposed Threatened; the remaining populations of the species are Candidate.

*Dendragapus fuliginosus howardi*

Mount Pinos sooty grouse

- 1) Formerly merged with *D. obscurus* as blue grouse, but separated on the basis of genetic evidence and differences in voice, behavior, & plumage.
- 2) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.

### ACCIPITRIDAE (hawks, kites, harriers, & eagles)

*Circus hudsonius*

northern harrier

- 1) Formerly considered conspecific with *Circus cyaneus*, but treated as separate on the basis of differences in morphology, plumage, and breeding habitat.

### RALLIDAE (rails, coots, and gallinules)

*Laterallus jamaicensis coturniculus*

California black rail

- 1) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.
- 2) The IUCN designation of "Near Threatened" refers to the full species.

*Rallus obsoletus levipes*

light-footed Ridgway's rail

- 1) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.

*Rallus obsoletus yumanensis*

Yuma Ridgway's rail

- 1) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.

## Birds

### CHARADRIIDAE (plovers and relatives)

*Charadrius alexandrinus nivosus*

western snowy plover

- 1) Federal listing applies only to the Pacific coastal population.
- 2) DFG "Species of Special Concern" designation refers to both the coastal & interior populations.
- 3) USFWS - Birds of Conservation Concern designation refers to non-listed subspecies or populations of Threatened or Endangered species.

*Charadrius montanus*

mountain plover

- 1) The 5 Dec 2002 proposal to list the mountain plover as a threatened species was withdrawn by the FWS as of 12 May 2011.

### LARIDAE (gulls and terns)

*Gelochelidon nilotica*

gull-billed tern

- 1) Taxonomy recently changed from *Sterna nilotica*.

*Hydroprogne caspia*

Caspian tern

- 1) Taxonomy recently changed from *Sterna caspia*.

*Sternula antillarum browni*

California least tern

- 1) Taxonomy recently changed from *Sterna antillarum browni*.
- 2) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.

*Thalasseus elegans*

elegant tern

- 1) Taxonomy recently changed from *Sterna elegans*.

### ALCIDAE (auklets, puffins, and relatives)

*Synthliboramphus scrippsi*

Scripps's murrelet

- 1) Formerly included in Xantus's Murrelet as *Synthliboramphus hypoleucus scrippsi*. Now considered a full species.

### STRIGIDAE (owls)

*Athene cunicularia*

burrowing owl

- 1) A burrow site = an observation of one or more owls at a burrow or evidence of recent occupation such as whitewash and feathers. Winter observations at a burrow are mapped. Winter observations with or without a burrow in San Francisco, Ventura, Sonoma, Marin, Napa & Santa Cruz Counties are mapped.

*Strix occidentalis caurina*

northern spotted owl

- 1) There are no northern spotted owl EOs in the CNDDDB. All northern spotted owl location information is maintained in a separate dataset. This data can be accessed from the same bookmark as the CNDDDB layer in BIOS. All RareFind subscribers have access to this information through BIOS (<https://www.wildlife.ca.gov/Data/BIOS>).
- 2) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.

*Strix occidentalis occidentalis*

California spotted owl

- 1) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.

### TYRANNIDAE (tyrant flycatchers)

*Empidonax traillii*

willow flycatcher

- 1) State listing of the full species includes all subspecies.
- 2) USFWS: Birds of Conservation Concern designation refers to non-listed subspecies or populations of Threatened or Endangered species.

## Birds

### TYRANNIDAE (tyrant flycatchers)

*Empidonax traillii brewsteri*

little willow flycatcher

- 1) State listing of the full species includes all subspecies.
- 2) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.
- 3) USFWS - Birds of Conservation Concern designation refers to non-listed subspecies or populations for Threatened or Endangered species.

*Empidonax traillii extimus*

southwestern willow flycatcher

- 1) State listing of the full species includes all subspecies.
- 2) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.

### LANIIDAE (shrikes)

*Lanius ludovicianus mearnsi*

San Clemente loggerhead shrike

- 1) Subspecific identity of shrikes currently on San Clemente is uncertain. Mundy et al. (1997a, b) provided evidence *L. l. mearnsi* is genetically distinct from *L. l. gambeli* and *L. l. anthonyi*, whereas Patten and Campbell (2000) concluded, based on morphology, that the birds now on San Clemente are intergrades between *L. l. mearnsi* and *L. l. anthonyi*.

### VIREONIDAE (vireos)

*Vireo bellii arizonae*

Arizona bell's vireo

- 1) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.
- 2) The IUCN designation of "Near Threatened" refers to the full species.

*Vireo bellii pusillus*

least Bell's vireo

- 1) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.
- 2) The IUCN designation of "Near Threatened" refers to the full species.

### TROGLODYTIDAE (wrens)

*Campylorhynchus brunneicapillus sandiegensis*

coastal cactus wren

- 1) Nomenclature follows the draft DFG Bird Species of Special Concern report.

### POLIOPTILIDAE (gnatcatchers)

*Poliioptila californica californica*

coastal California gnatcatcher

- 1) AKA Alta California gnatcatcher.
- 2) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.

### MIMIDAE (mockingbirds and thrashers)

*Toxostoma lecontei*

Le Conte's thrasher

- 1) The BLM "Sensitive Species" designation refers to the subspecies *Toxostoma lecontei macmillanorum*.
- 2) DFG "Species of Special Concern" designation refers only to the San Joaquin population, AKA *T. l. macmillanorum*.

### PASSERELLIDAE (sparrows)

*Artemisiospiza belli belli*

Bell's sage sparrow

- 1) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.

*Artemisiospiza belli clementeae*

San Clemente sage sparrow

- 1) Subspecific validity uncertain. Recognized by AOU (1957), but not by Patten and Unitt (2002).
- 2) The American Bird Conservancy "WatchList of Birds of Conservation Concern" designation refers to the full species.



## Birds

### PASSERELLIDAE (sparrows)

*Melospiza melodia graminea*

Channel Island song sparrow

- 1) Subspecific validity is uncertain. This subspecies when referred to as Santa Barbara song sparrow is extinct. However, the subspecies was merged by Patten (2001) with the San Miguel (*M. m. micronyx*), and San Clemente (*M. m. clementae*) song sparrows as the Channel Island song sparrow with the subspecific name *M. m. graminea*.

*Melozona crissalis eremophilus*

Inyo California towhee

- 1) Previously was in the genus *Pipilo*.

### ICTERIDAE (blackbirds)

*Agelaius tricolor*

tricolored blackbird

- 1) Emergency protection under CESA granted on December 3rd 2014 by the California Fish and Game Commission.

### PARULIDAE (wood-warblers)

*Geothlypis trichas sinuosa*

saltmarsh common yellowthroat

- 1) AKA San Francisco common yellowthroat

*Setophaga petechia*

yellow warbler

- 1) This element includes the subspecies *S. p. morcormi* & *S. p. brewsteri*, which are tracked under the full species, *S. petechia* due to difficulty distinguishing them. *S. p. sonorana*, which nests in California only along the Colorado River is tracked separately.

*Setophaga petechia sonorana*

Sonoran yellow warbler

- 1) Nests in California only along the Colorado River. Observations of yellow warblers from other regions are tracked as the full species, *S. petechia*.

## Mammals

### PHYLLOSTOMIDAE (leaf-nosed bats)

*Leptonycteris yerbabuenae*

lesser long-nosed bat

- 1) Listed by the U.S. Fish & Wildlife Service as *Leptonycteris curasoae yerbabuenae*.

### VESPERTILIONIDAE (evening bats)

*Lasiurus blossevillii*

western red bat

- 1) The DFG "Species of Special Concern" designation is based on the draft updated Mammalian Species of Special Concern report.

*Lasiurus xanthinus*

western yellow bat

- 1) The DFG "Species of Special Concern" designation is based on the draft updated Mammalian Species of Special Concern report.

### APLODONTIDAE (mountain beavers)

*Aplodontia rufa californica*

Sierra Nevada mountain beaver

- 1) The IUCN "Least Concern" designation refers to the full species.

*Aplodontia rufa nigra*

Point Arena mountain beaver

- 1) The IUCN "Least Concern" designation refers to the full species.

*Aplodontia rufa phaea*

Point Reyes mountain beaver

- 1) The IUCN "Least Concern" designation refers to the full species.

## Mammals

### HETEROMYIDAE (kangaroo rats, pocket mice, & kangaroo mice)

*Chaetodipus fallax fallax*

northwestern San Diego pocket mouse

- 1) The DFG "Species of Special Concern" designation refers to the full species.

*Chaetodipus fallax pallidus*

pallid San Diego pocket mouse

- 1) The DFG "Species of Special Concern" designation refers to the full species.

*Perognathus alticola alticola*

white-eared pocket mouse

- 1) The DFG "Species of Special Concern" and the BLM "Sensitive Species" designations refer to the full species.
- 2) The IUCN "Endangered" designation is at the species level.

*Perognathus alticola inexpectatus*

Tehachapi pocket mouse

- 1) The DFG "Species of Special Concern" designation refers to the full species.
- 2) The IUCN "Endangered" designation is at the species level.

*Perognathus inornatus*

San Joaquin Pocket Mouse

- 1) This element includes the subspecies *P. i. inornatus* & *P. i. neglectus*, which are tracked under the full species, *P. inornatus* due to difficulty distinguishing them. *P. i. inornatus* generally occurs on the eastern side of San Joaquin Valley, while *P. i. neglectus* generally occurs on the western side. *P. i. psammophilus*, which occurs only in the Salinas Valley, is tracked separately.

### MURIDAE (mice, rats, and voles)

*Neotoma fuscipes riparia*

riparian (=San Joaquin Valley) woodrat

- 1) This species is currently undergoing taxonomic revision

*Reithrodontomys megalotis santacruzae*

Santa Cruz harvest mouse

- 1) Synonymous with *Reithrodontomys megalotis longicaudus*, Santa Cruz Island Population.

### CANIDAE (foxes, wolves, and coyotes)

*Urocyon littoralis*

island fox

- 1) State listing is at the full species level and includes all subspecies on all islands. Federal listing does not include San Nicolas & San Clemente island subspecies.

*Urocyon littoralis catalinae*

Santa Catalina Island fox

- 1) The IUCN "Critically Endangered" designation refers to the full species.

*Urocyon littoralis clementae*

San Clemente Island fox

- 1) The IUCN "Critically Endangered" designation refers to the full species.

*Urocyon littoralis dickeyi*

San Nicolas Island fox

- 1) The IUCN "Critically Endangered" designation refers to the full species.

*Urocyon littoralis littoralis*

San Miguel Island fox

- 1) The IUCN "Critically Endangered" designation refers to the full species.

*Urocyon littoralis santacruzae*

Santa Cruz Island fox

- 1) The IUCN "Critically Endangered" designation refers to the full species.

## Mammals

### CANIDAE (foxes, wolves, and coyotes)

*Urocyon littoralis santarosae*

Santa Rosa Island fox

- 1) The IUCN "Critically Endangered" designation refers to the full species.

### MUSTELIDAE (weasels and relatives)

*Enhydra lutris nereis*

southern sea otter

- 1) The IUCN "Endangered" designation refers to the full species.

*Lontra canadensis sonora*

southwestern river otter

- 1) SSC status refers only to the subspecies *L. canadensis sonora*, which is known in California only from the Colorado River.

*Pekania pennanti*

fisher - West Coast DPS

- 1) The subspecies *M. p. pacifica* is no longer considered a valid subspecies. The west coast population of the fisher is now considered to be a distinct population segment (DPS) by the USFWS.
- 2) The West Coast DPS of fisher was proposed threatened by the USFWS in 2014, then withdrawn in 2016.
- 3) The Fish and Game Commission Notice of Findings from 4/20/2016 notes that the Southern Sierra Nevada ESU (defined as south of the Merced River) is recognized as Threatened, while the Northern California ESU was not warranted.

### BOVIDAE (sheep and relatives)

*Ovis canadensis nelsoni*

desert bighorn sheep

- 1) Desert bighorn sheep (*O. c. nelsoni*) in the Peninsular Ranges are tracked as a metapopulation of the subspecies, Peninsular bighorn sheep DPS (*O. c. nelsoni* pop. 2)

*Ovis canadensis nelsoni* pop. 2

Peninsular bighorn sheep DPS

- 1) The subspecies peninsular bighorn sheep (*O. c. cremnobates*) has been synonymized with *O. c. nelsoni* (Wehausen & Ramey 1993). Peninsular bighorn sheep are now considered to be a metapopulation and are recognized as a federal Distinct Population Segment (DPS).