

**TABLE 4.4-1
KNOWN OR POTENTIAL OCCURRENCES OF SPECIAL-STATUS
SPECIES IN THE VICINITY OF THE STUDY AREA**

Scientific Name	Common Name	Status Federal/State/ CNPS	General Habitat Description	Microhabitat Description
Amphibian				
<i>Ambystoma californiense</i>	California tiger salamander	E/SC/NA	Sonoma County distinct population segment (dps) listed as endangered.	Need underground refuges, especially ground squirrel burrows & vernal pools or other seasonal water sources for breeding
<i>Rana boylei</i>	foothill yellow-legged frog	-/SC/NA	Partly-shaded, shallow streams & riffles with a rocky substrate in a variety of habitats.	Need at least some cobble-sized substrate for egg-laying. Need at least 15 weeks to attain metamorphosis.
<i>Rana draytonii</i>	California red-legged frog	T/SC/NA	Lowlands & foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation.	Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.
Reptile				
<i>Actinemys marmorata marmorata</i>	northwestern pond turtle	-/SC/NA	Associated with permanent or nearly permanent water in a wide variety of habitats.	Requires basking sites. Nests sites may be found up to 0.5 km from water.
Bird				
<i>Agelaius tricolor</i>	tricolored blackbird	-/SC/NA	Highly colonial species, most numerous in central valley & vicinity. Largely endemic to California.	Requires open water, protected nesting substrate, & foraging area with insect prey within a few km of the colony.
<i>Athene cunicularia</i>	burrowing owl	-/SC/NA	Open, dry annual or perennial grasslands, deserts & scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.
<i>Baeolophus inornatus</i>	oak titmouse	-/-/NA	Blue oak savannah, montane hardwood-conifer hardwood forests, blue valley, coastal oak woodlands, montane and valley foothill riparian habitats up to ponderosa pine forest.	Nests in tree cavities on wooded sites.
<i>Chaetura vauxi</i>	Vaux's swift	-/SC/NA	Forages over most terrains and habitats. Shows a preference for foraging over rivers and	Nest site is a large hollow tree.

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			lakes.	
<i>Coccyzus americanus occidentalis</i>	western yellow-billed cuckoo	C/E/NA	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems.	Nests in riparian jungles of willow often mixed with cottonwoods, w/ lower story of blackberry, nettles, or wild grape.
<i>Elanus leucurus</i>	white-tailed kite	-/FP/NA	Rolling foothills and valley margins with scattered oaks & river bottomlands or marshes next to deciduous woodland.	Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.
<i>Falco peregrinus anatum</i>	American peregrine falcon	FD/SE & FP/NA	Found in open habitats from tundra, savannah, and coastal areas to high mountains. It is most commonly associated with tall cliffs with wide open views which are used for perching and nesting and usually near a water source. Typically, this species breeds in woodland, forest, and coastal habitats.	Cliffs, ledges, caves, or small holes with protection from the weather provide nesting sites.
<i>Haliaeetus leucocephalus</i>	bald eagle	FD/SE & FP/NA	Permanent resident, and uncommon winter migrant, now restricted to breeding mostly in Butte, Lake, Lassen, Modoc, Plumas, Shasta, Siskiyou, and Trinity cos. Ocean shore, lake margins, and rivers, both nesting and wintering. Wintering populations along major rivers and reservoirs in Yuba County.	Build stick nests within large tall trees and typically within 1 mile of permanent water.
<i>Lanius ludovicianus</i>	loggerhead shrike	-/SC/NA	A common resident and winter visitor in lowlands and foothills throughout California. Open habitats with scattered shrubs, trees, posts, fences, utility lines, or other perches. Open-canopied valley foothill hardwood, valley foothill hardwood-conifer, valley foothill riparian, pinyon-juniper,	

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			juniper, desert riparian, and Joshua tree habitats.	
<i>Numenius americanus</i>	long-billed curlew	-/-/NA	Breeding habitat is grasslands in west-central North America. Forage in fields, picking up food by sight, also by probing. Mainly eat insects, but also eat crustaceans in coastal areas.	Nests are located on the ground in open prairie.
<i>Selasphorus sasin</i>	Allen's hummingbird	-/-/NA	Summer/nesting and seasonal (Neotropical) migrant along coast and coastal mountains. Coastal scrub, valley foothill hardwoods, and riparian habitats.	Requires nectar-producing flowers.
<i>Toxostoma redivivum</i>	California thrasher	-/-/NA	A common resident of foothills and lowlands in cismontane California. Moderate to dense chaparral habitats and, less commonly, extensive thickets in young or open valley foothill riparian habitat.	
Fish				
<i>Hysterothorax traski</i>	Russian River tule perch	-/SC/NA	Low elevation streams of the Russian river system.	Requires clear, flowing water with abundant cover. They also require deep (> 1 m) pool habitat.
<i>Lavinia symmetricus navarroensis</i>	Navarro roach	-/SC/NA	Habitat generalists. Found in warm intermittent streams as well as cold, well-aerated streams.	
<i>Oncorhynchus kisutch</i>	coho salmon - central California coast ESU	E/E/NA	Federal listing = populations between Punta Gorda & San Lorenzo River. State listing = populations south of Punta Gorda.	Require beds of loose, silt-free, coarse gravel for spawning. Also need cover, cool water & sufficient dissolved oxygen.
<i>Oncorhynchus mykiss irideus</i>	steelhead - central California coast ESU	T/-/NA	From Russian River, south to Soquel Creek & to, but not including, Pajaro river. Also San Francisco & San Pablo Bay basins.	
Mammal				

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<i>Antrozous pallidus</i>	pallid bat	-/SC/NA	Deserts, grasslands, shrublands, woodlands & forests. Most common in open, dry habitats with rocky areas for roosting.	Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.
<i>Arborimus pomo</i>	Sonoma tree vole	-/SC/NA	North coast fog belt from Oregon border to Sonoma County. In Douglas-fir, redwood & montane hardwood-conifer forests.	Feeds almost exclusively on Douglas-fir needles. Will occasionally take needles of grand fir, hemlock or spruce.
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	-/SC/NA	Throughout California in a wide variety of habitats. Most common in mesic sites.	Roosts in the open, hanging from walls & ceilings. Roosting sites limiting. Extremely sensitive to human disturbance.
<i>Taxidea taxus</i>	American badger	-/SC/NA	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Need sufficient food, friable soils & open, uncultivated ground. Prey on burrowing rodents. Dig burrows.
Invertebrate				
<i>Syncaris pacifica</i>	California freshwater shrimp	E/E/NA	Endemic to Marin, Napa, & Sonoma counties. Found in low elevation, low gradient streams where riparian cover is moderate to heavy.	Shallow pools away from main streamflow. Winter: undercut banks w/exposed roots. Summer: leafy branches touching water.
Plant (Dicot)				
<i>Amorpha californica</i> var. <i>napensis</i>	Napa false indigo	-/1B	Broadleafed upland forest, chaparral, cismontane woodland.	Openings in forest or woodland or in chaparral. 150-2000m
<i>Arctostaphylos bakeri</i> ssp. <i>bakeri</i>	Baker's manzanita	-/1B	Broadleafed upland forest, chaparral. Entire species state-listed rare.	Often on serpentine. This is the state-listed rare taxon, also known as a. Bakeri in title 14. 75-230m.
<i>Arctostaphylos canescens</i> ssp. <i>sonomensis</i>	Sonoma canescent manzanita	-/1B	Chaparral, lower montane coniferous forest.	Sometimes found on serpentine. 180-1700m.
<i>Arctostaphylos densiflora</i>	Vine Hill manzanita	-/E/1B	Chaparral.	Acid marine sand. 50-100m.
<i>Arctostaphylos stanfordiana</i> ssp. <i>decumbens</i>	Rincon Ridge manzanita	-/1B	Chaparral.	Highly restricted endemic to red rhyolites in Sonoma County. 75-310m.
<i>Astragalus claranus</i>	Clara Hunt's milk-vetch	E/E/1B	Cismontane woodland, valley and foothill grassland, chaparral.	Open grassy hillsides, esp. On exposed shoulders in thin, volcanic clay soil moist in spring. 75-235m.
<i>Astragalus tener</i>	alkali milk-	-/1B	Alkali playa, valley and	Low ground, alkali flats, and flooded

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<i>var. tener</i>	vetch		foothill grassland, vernal pools.	lands; in annual grassland or in playas or vernal pools. 1-170m.
<i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i>	big-scale balsamroot	-/1B	Valley and foothill grassland, cismontane woodland.	Sometimes on serpentine. 35-1000m.
<i>Blennosperma bakeri</i>	Sonoma sunshine	E/E/1B	Vernal pools, valley and foothill grassland.	Vernal pools and swales. 10-100m.
<i>California macrophylla</i>	round-leaved filaree	-/1B	Cismontane woodland, valley and foothill grassland.	Clay soils. 15-1200m.
<i>Campanula californica</i>	swamp harebell	-/1B	Bogs and fens, closed-cone coniferous forest, coastal prairie, meadows, freshwater marsh, n coast coniferous forest.	Bogs and marshes in a variety of habitats; uncommon where it occurs. 1-405m.
<i>Castilleja uliginosa</i>	Pitkin Marsh Indian paintbrush	-E/-/1A	Freshwater marsh.	Last known remaining plant died in 1987; was known from overgrown freshwater marsh. 60m.
<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	-/1B	Closed-cone coniferous forest, chaparral, cismontane woodland.	Known from volcanic or serpentine soils, dry shrubby slopes. 75-1065m.
<i>Ceanothus divergens</i>	Calistoga ceanothus	-/1B	Chaparral, cismontane woodland.	Rocky, serpentine or volcanic sites. 165-950m.
<i>Ceanothus foliosus</i> var. <i>vineatus</i>	Vine Hill ceanothus	-/1B	Chaparral.	Sandy, acidic soil in chaparral. 45-85m.
<i>Ceanothus purpureus</i>	holly-leaved ceanothus	-/1B	Chaparral.	Rocky, volcanic slopes. 120-640m.
<i>Ceanothus sonomensis</i>	Sonoma ceanothus	-/1B	Chaparral.	Sandy, serpentine or volcanic soils. 210-800m.
<i>Centromadia parryi</i> ssp. <i>parryi</i>	pappose tarplant	-/1B	Coastal prairie, meadows and seeps, coastal salt marsh, valley and foothill grassland.	Vernally mesic, often alkaline sites. 2-420m.
<i>Chorizanthe valida</i>	Sonoma spineflower	E/E/1B	Coastal prairie.	Sandy soil. 10-50m.
<i>Clarkia imbricata</i>	Vine Hill clarkia	E/E/1Bv	Chaparral, valley and foothill grassland.	Acidic, sandy soil. 50-75m.
<i>Cordylanthus maritimus</i> ssp. <i>palustris</i>	Point Reyes bird's-beak	E/E/1B	Coastal salt marsh.	Usually in coastal salt marsh with <i>Salicornia</i> , <i>Distichlis</i> , <i>Jaumea</i> , <i>Spartina</i> , etc. 0-15m.
<i>Cordylanthus mollis</i> ssp. <i>mollis</i>	soft bird's-beak	E/Rare/1B	Coastal salt marsh.	In coastal salt marsh with <i>Distichlis</i> , <i>Salicornia</i> , <i>Frankenia</i> , etc. 0-3m.

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<i>Cordylanthus tenuis</i> ssp. <i>capillaris</i>	Pennell's bird's-beak	E/Rare/1B	Closed-cone coniferous forest, chaparral.	In open or disturbed areas on serpentine within forest or chaparral. 45-230m.
<i>Delphinium bakeri</i>	Baker's larkspur	E/E/1B	Coastal scrub, grasslands.	Only site occurs on northwest-facing slope, on decomposed shale. Hist. Known from grassy areas along fence lines too. 90-205m.
<i>Delphinium luteum</i>	golden larkspur	E/Rare/1B	Chaparral, coastal prairie, coastal scrub.	North-facing rocky slopes. 0-100m.
<i>Downingia pusilla</i>	dwarf downingia	-/-/2	Valley and foothill grassland (mesic sites), vernal pools.	Vernal lake and pool margins with a variety of associates. In several types of vernal pools. 1-485m.
<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	-/-/1B	Chaparral.	Serpentine and volcanic substrates, generally in shrubby vegetation. 75-1060m.
<i>Hesperolinon congestum</i>	Marin western flax	T/T/1B	Chaparral, valley and foothill grassland.	In serpentine barrens and in serpentine grassland and chaparral. 30-365m.
<i>Horkelia tenuiloba</i>	thin-lobed horkelia	-/-/1B	Coastal scrub, chaparral.	Sandy soils; mesic openings. 45-500m.
<i>Lasthenia burkei</i>	Burke's goldfields	E/E/1B	Vernal pools, meadows and seeps.	Most often in vernal pools and swales. 15-580m.
<i>Lasthenia californica</i> ssp. <i>bakeri</i>	Baker's goldfields	-/-/1B	Closed-cone coniferous forest, coastal scrub.	Openings. 60-520m.
<i>Lasthenia conjugens</i>	Contra Costa goldfields	E/-/1B	Valley and foothill grassland, vernal pools, cismontane woodland. Extirpated from most of its range.	Vernal pools, swales, low depressions, in open grassy areas. 1-445m.
<i>Legenere limosa</i>	legenere	-/-/1B	Vernal pools. Many historical occurrences are extirpated.	In beds of vernal pools. 1-880m.
<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	-/-/1B	Chaparral, cismontane woodland.	Open to partially shaded grassy slopes. On volcanics or the periphery of serpentine substrates. 100-500m.
<i>Lessingia arachnoidea</i>	Crystal Springs lessingia	-/-/1B	Coastal sage scrub, valley and foothill grassland, cismontane woodland.	Grassy slopes on serpentine; sometimes on roadsides. 60-200m.
<i>Limnanthes vincularis</i>	Sebastopol meadowfoam	E/E/1B	Mesic meadows, vernal pools, valley and foothill grassland.	Swales, wet meadows and marshy areas in valley oak savanna; on poorly drained soils of clays and sandy loam. 15-115m.
<i>Microseris</i>	marsh	-/-/1B	Closed-cone coniferous forest, cismontane	5-300m.

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<i>paludosa</i>	microseris		woodland, coastal scrub, valley and foothill grassland.	
<i>Monardella villosa</i> ssp. <i>globosa</i>	robust monardella	-/-1B	Broadleaved upland forest, chaparral, cismontane woodland, valley and foothill grassland.	Openings. 30-300m.
<i>Navarretia leucocephala</i> ssp. <i>bakeri</i>	Baker's navarretia	E/E/1B	Cismontane woodland, meadows and seeps, vernal pools, valley and foothill grassland, lower montane coniferous forest.	Vernal pools and swales; adobe or alkaline soils. 5-950m.
<i>Plagiobothrys mollis</i> var. <i>vestitus</i>	Petaluma popcorn-flower	-/-1A	Valley and foothill grassland, coastal salt marsh?	Wet sites in grassland, possibly coastal marsh margins. 10-50m.
<i>Sidalcea calycosa</i> ssp. <i>rhizomata</i>	Point Reyes checkerbloom	-/-1B	Marshes and swamps.	Freshwater marshes near the coast. 5-75(245)m.
<i>Trifolium amoenum</i>	two-fork clover	E/-1B	Valley and foothill grassland, coastal bluff scrub.	Sometimes on serpentine soil, open sunny sites, swales. Most recently sited on roadside and eroding cliff face. 5-560m.
<i>Trifolium depauperatum</i> var. <i>hydrophilum</i>	saline clover	-/-1B	Marshes and swamps, valley and foothill grassland, vernal pools.	Mesic, alkaline sites. 0-300m.
<i>Viburnum ellipticum</i>	oval-leaved viburnum	-/-2	Chaparral, cismontane woodland, and lower montane coniferous forest.	215-1400m.
Plant (Monocot)				
<i>Allium peninsulare</i> var. <i>franciscanum</i>	Franciscan onion	-/-1B	Cismontane woodland, valley and foothill grassland.	Clay soils; often on serpentine. Dry hillsides. 100-300m.
<i>Alopecurus aequalis</i> var. <i>sonomensis</i>	Sonoma alopecurus	E/-1B	Freshwater marshes and swamps, riparian scrub.	Wet areas, marshes, and riparian banks with other wetland species. 5-360m.
<i>Brodiaea californica</i> var. <i>leptandra</i>	narrow-anthered California brodiaea	-/-1B	Broadleaved upland forest, chaparral, lower montane coniferous forest.	110-915m.
<i>Calamagrostis crassiglumis</i>	Thurber's reed grass	-/-2	Coastal scrub, freshwater marsh.	Usually in marshy swales surrounded by grassland or coastal scrub. 10-45m.

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<i>Carex albida</i>	Sonoma white sedge	E/E/1B	Freshwater marsh, bogs and fens, meadows and seeps.	Wet meadows and marshes. 35-55m.
<i>Carex comosa</i>	bristly sedge	-/-/2	Marshes and swamps.	Lake margins, wet places; site below sea level is on a delta island. -5-1005m.
<i>Fritillaria liliacea</i>	fragrant fritillary	-/-/1B	Coastal scrub, valley and foothill grassland, coastal prairie.	Often on serpentine; various soils reported though usually clay, in grassland. 3-410m.
<i>Lilium pardalinum</i> ssp. <i>pitkinense</i>	Pitkin Marsh lily	E/E/1B	Cismontane woodland, meadows and seeps, freshwater marsh.	Saturated, sandy soils w/ grasses and shrubs. 35-65m.
<i>Pleuropogon hooverianus</i>	North Coast semaphore grass	-/T/1B	Broadleafed upland forest, meadows and seeps, north coast coniferous forest.	Wet grassy, usually shady areas, sometimes freshwater marsh; associated with forest environments; 10-1150m.
<i>Rhynchospora alba</i>	white beaked-rush	-/-/2	Bogs and fens, marshes and swamps.	Freshwater marshes and sphagnum bogs. 60-2000m.
<i>Rhynchospora californica</i>	California beaked-rush	-/-/1B	Bogs and fens, marshes and swamps, lower montane coniferous forest, meadows and seeps.	Freshwater seeps and open marshy areas. 45-1000m.
<i>Rhynchospora capitellata</i>	brownish beaked-rush	-/-/2	Lower montane coniferous forest, meadows and seeps, marshes and swamps, upper montane coniferous forest.	Mesic sites. 455-2000m.
<i>Rhynchospora globularis</i> var. <i>globularis</i>	round-headed beaked-rush	-/-/2	Marshes and swamps.	Freshwater marsh. 45-60m.

Sources: CDFG CNDDDB August 2008 Update search of the following Quadrangles: Geyserville, Guerneville, Healdsburg, Mark West Spring's Camp Meeker, Sebastopol, Santa Rosa, Cotati, Petaluma, Petaluma River, Sears Point

*Listing Status Codes:

Federal/State/CNPS

Federal:

E = Endangered, T = Threatened; FD = Delisted, PE = Proposed Endangered; PT = Proposed Threatened, FPD = Proposed Delisted pursuant to the Federal Endangered Species Act of 1973, as amended;

State:

E = Endangered; T = Threatened; R = Rare PE = Proposed Endangered; PT = Proposed Threatened pursuant to Sects. 2074.2 and 2075.5 of the California Endangered Species Act of 1984;

SC = considered a California Species of Special Concern by the CDFG;

FP = a Fully Protected species that may not be taken without a take permit from the CDFG;

CNPS:

List 1A: Plants Presumed Extinct in California

List 1B: Plants Rare, Threatened, or Endangered in California and Elsewhere

List 2: Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere

California Department of Fish and Game
Natural Diversity Database
Selected Elements by Scientific Name - Landscape

Scientific Name	Common Name	Element Code	Federal Status	State Status	Global Rank	State Rank	CNPS	CDFG
1 <i>Abronia umbellata</i> ssp. <i>breviflora</i>	pink sand-verbena	PDNYC010N2			G4G5T2	S2.1	1B.1	
2 <i>Actinemys marmorata</i>	western pond turtle	ARAAAD02030			G3G4	S3		SC
3 <i>Actinemys marmorata marmorata</i>	northwestern pond turtle	ARAAAD02031			G3G4T3	S3		SC
4 <i>Adela oplerella</i>	Opler's longhorn moth	IILEE0G040			G2G3	S2S3		
5 <i>Agelaius tricolor</i>	tricolored blackbird	ABPBXB0020			G2G3	S2		SC
6 <i>Agrostis blasdalei</i>	Blasdale's bent grass	PMPOA04060			G2	S2.2	1B.2	
7 <i>Agrostis clivicola</i> var. <i>punta-reyesensis</i>	Point Reyes bent grass	PMPOA040A2			G3?T1Q	S1.2		
8 <i>Allium peninsulare</i> var. <i>franciscanum</i>	Franciscan onion	PMLIL021R1			G5T2	S2.2	1B.2	
9 <i>Alopecurus aequalis</i> var. <i>sonomensis</i>	Sonoma alopecurus	PMPOA07012	Endangered		G5T1Q	S1.1	1B.1	
10 <i>Ambystoma californiense</i>	California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3		SC
11 <i>Amorpha californica</i> var. <i>napensis</i>	Napa false indigo	PDFAB08012			G4T2	S2.2	1B.2	
12 <i>Andrena blennospermatis</i>	Blennosperma vernal pool andrenid bee	IHYM35030			G2	S2		
13 <i>Anomobryum julaceum</i>	slender silver moss	NBMUS80010			G4G5	S1.3	2.2	
14 <i>Antrozous pallidus</i>	pallid bat	AMACC10010			G5	S3		SC
15 <i>Arborimus pomo</i>	Sonoma tree vole	AMAFF23030			G3	S3		SC
16 <i>Arctostaphylos bakeri</i> ssp. <i>bakeri</i>	Baker's manzanita	PDERI04221		Rare	G2T2	S2.1	1B.1	
17 <i>Arctostaphylos bakeri</i> ssp. <i>sublaevis</i>	The Cedars manzanita	PDERI04222		Rare	G2T2	S2.2	1B.2	
18 <i>Arctostaphylos canescens</i> ssp. <i>sonomensis</i>	Sonoma canescent manzanita	PDERI04066			G3G4T2	S2.1	1B.2	
19 <i>Arctostaphylos densiflora</i>	Vine Hill manzanita	PDERI040C0		Endangered	G1	S1.1	1B.1	
20 <i>Arctostaphylos manzanita</i> ssp. <i>elegans</i>	Konocti manzanita	PDERI04271			G5T2	S2.3	1B.3	
21 <i>Arctostaphylos stanfordiana</i> ssp. <i>decumbens</i>	Rincon Ridge manzanita	PDERI041G4			G3T1	S1.1	1B.1	
22 <i>Ardea herodias</i>	great blue heron	ABNGA04010			G5	S4		
23 <i>Astragalus claranus</i>	Clara Hunt's milk-vetch	PDFAB0F240	Endangered	Threatened	G1	S1.1	1B.1	
24 <i>Astragalus tener</i> var. <i>tener</i>	alkali milk-vetch	PDFAB0F8R1			G1T1	S1.1	1B.2	
25 <i>Athene cunicularia</i>	burrowing owl	ABNSB10010			G4	S2		SC
26 <i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i>	big-scale balsamroot	PDAST11061			G3G4T2	S2.2	1B.2	
27 <i>Blennosperma bakeri</i>	Sonoma sunshine	PDAST1A010	Endangered	Endangered	G1	S1.2	1B.1	
28 <i>Brodiaea californica</i> var. <i>leptandra</i>	narrow-anthered California brodiaea	PMLIL0C022			G4?T2T3	S2S3.2	1B.2	
29 <i>Caecidotea tomalensis</i>	Tomales isopod	ICMAL01220			G2	S2		
30 <i>Calamagrostis crassiglumis</i>	Thurber's reed grass	PMPOA17070			G3Q	S1.2	2.1	
31 <i>California macrophylla</i>	round-leaved filaree	PDGER01070			G3	S3.1	1B.1	
32 <i>Callitropsis pygmaea</i>	pygmy cypress	PGCUP04032			G2T2	S2.2	1B.2	

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Natural Diversity Database
Selected Elements by Scientific Name - Landscape

Scientific Name	Common Name	Element Code	Federal Status	State Status	Global Rank	State Rank	CNPS	CDFG
33 Calochortus raichei	The Cedars fairy-lantern	PMLIL0D1L0			G1	S1.2	1B.2	
34 Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	PDCON04032			G4T3	S3.2	4.2	
35 Calystegia purpurata ssp. saxicola	coastal bluff morning-glory	PDCON040D2			G4T2	S2.2	1B.2	
36 Campanula californica	swamp harebell	PDCAM02060			G3	S3.2	1B.2	
37 Carex albida	Sonoma white sedge	PMCYP030D0	Endangered	Endangered	G1	S1.1	1B.1	
38 Carex comosa	bristly sedge	PMCYP032Y0			G5	S2?	2.1	
39 Carex saliniformis	deceiving sedge	PMCYP03BY0			G2	S2.2	1B.2	
40 Carterocephalus palaemon magnus	Sonoma arctic skipper	IILEP42012			G5T1	S1		
41 Castilleja mendocinensis	Mendocino Coast paintbrush	PDSCR0D3N0			G2	S2.2	1B.2	
42 Castilleja uliginosa	Pitkin Marsh Indian paintbrush	PDSCR0D380		Endangered	GXQ	SX	1A	
43 Ceanothus confusus	Rincon Ridge ceanothus	PDRHA04220			G2	S2.2	1B.1	
44 Ceanothus divergens	Calistoga ceanothus	PDRHA04240			G2	S2.2	1B.2	
45 Ceanothus foliosus var. vineatus	Vine Hill ceanothus	PDRHA040D6			G3T1	S1?	1B.1	
46 Ceanothus purpureus	holly-leaved ceanothus	PDRHA04160			G2	S2.2	1B.2	
47 Ceanothus sonomensis	Sonoma ceanothus	PDRHA04420			G2	S2.2	1B.2	
48 Centromadia parryi ssp. parryi	pappose tarplant	PDAST4R0P2			G4T2	S2.2	1B.2	
49 Charadrius alexandrinus nivosus	western snowy plover	ABNNB03031	Threatened		G4T3	S2		SC
50 Chlorogalum pomeridianum var. minus	dwarf soaproot	PMLIL0G042			G5T1	S1.2	1B.2	
51 Chorizanthe cuspidata var. cuspidata	San Francisco Bay spineflower	PDPGN04081			G2T2	S2.2	1B.2	
52 Chorizanthe cuspidata var. villosa	woolly-headed spineflower	PDPGN04082			G2T1	S1.2	1B.2	
53 Chorizanthe valida	Sonoma spineflower	PDPGN040V0	Endangered	Endangered	G1	S1.1	1B.1	
54 Cirsium andrewsii	Franciscan thistle	PDAST2E050			G2	S2.2	1B.2	
55 Clarkia imbricata	Vine Hill clarkia	PDONA050K0	Endangered	Endangered	G1	S1.1	1B.1	
56 Coastal Brackish Marsh	Coastal Brackish Marsh	CTT52200CA			G2	S2.1		
57 Coastal Terrace Prairie	Coastal Terrace Prairie	CTT41100CA			G2	S2.1		
58 Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	CTT52410CA			G3	S2.1		
59 Coccozyus americanus occidentalis	western yellow-billed cuckoo	ABNRB02022	Candidate	Endangered	G5T3Q	S1		
60 Cordylanthus maritimus ssp. palustris	Point Reyes bird's-beak	PDSCR0J0C3			G4?T2	S2.2	1B.2	
61 Cordylanthus mollis ssp. mollis	soft bird's-beak	PDSCR0J0D2	Endangered	Rare	G2T1	S1.1	1B.2	
62 Cordylanthus tenuis ssp. capillaris	Pennell's bird's-beak	PDSCR0J0S2	Endangered	Rare	G4G5T1	S1.2	1B.2	
63 Corynorhinus townsendii	Townsend's big-eared bat	AMACC08010			G4	S2S3		SC
64 Cryptantha clevelandii var. dissita	serpentine cryptantha	PDBOR0A0H2			G5T1	S1.1	1B.1	
65 Cypseloides niger	black swift	ABNUA01010			G4	S2		SC
66 Danaus plexippus	monarch butterfly	IILEPP2010			G5	S3		

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Selected Elements by Scientific Name - Landscape

Scientific Name	Common Name	Element Code	Federal Status	State Status	Global Rank	State Rank	CNPS	CDFG
67 <i>Delphinium bakeri</i>	Baker's larkspur	PDRAN0B050	Endangered	Endangered	G1	S1.1	1B.1	
68 <i>Delphinium luteum</i>	golden larkspur	PDRAN0B0Z0	Endangered	Rare	G1	S1.1	1B.1	
69 <i>Dichanthelium lanuginosum</i> var.	Geysers dichanthelium	PMPOA24025		Endangered	G5T1Q	S1.1	1B.1	
70 <i>Dirca occidentalis</i>	western leatherwood	PDTHY03010			G2G3	S2S3	1B.2	
71 <i>Downingia pusilla</i>	dwarf downingia	PDCAM060C0			G3	S3.1	2.2	
72 <i>Dubiraphia giulianii</i>	Giuliani's dubiraphian riffle beetle	IICOL5A020			G1G3	S1S3		
73 <i>Elanus leucurus</i>	white-tailed kite	ABNKC06010			G5	S3		
74 <i>Erigeron greenei</i>	Greene's narrow-leaved daisy	PDAST3M5G0			G1	S1.2?	1B.2	
75 <i>Erigeron serpentinus</i>	serpentine daisy	PDAST3M5M0			G1	S1.3	1B.3	
76 <i>Erigeron supplex</i>	supple daisy	PDAST3M3Z0			G1	S1.1	1B.2	
77 <i>Eriogonum nervulosum</i>	Snow Mountain buckwheat	PDPGN08440			G2	S2.2	1B.2	
78 <i>Eryngium constancei</i>	Loch Lomond button-celery	PDAP10Z0W0	Endangered	Endangered	G1	S1.1	1B.1	
79 <i>Eucyclogobius newberryi</i>	tidewater goby	AFCQN04010	Endangered		G3	S2S3		SC
80 <i>Fritillaria liliacea</i>	fragrant fritillary	PMLIL0V0C0			G2	S2.2	1B.2	
81 <i>Fritillaria roderickii</i>	Roderick's fritillary	PMLIL0V0M0		Endangered	G1Q	S1.1	1B.1	
82 <i>Geothlypis trichas sinuosa</i>	saltmarsh common yellowthroat	ABPBX1201A			G5T2	S2		SC
83 <i>Gilia capitata</i> ssp. <i>chamissonis</i>	blue coast gilia	PDPLM040B3			G5T2	S2.1	1B.1	
84 <i>Gilia capitata</i> ssp. <i>tomentosa</i>	woolly-headed gilia	PDPLM040B9			G5T1	S1.1	1B.1	
85 <i>Gilia millefoliata</i>	dark-eyed gilia	PDPLM04130			G2	S2.2	1B.2	
86 <i>Hesperexax sparsiflora</i> var. <i>brevifolia</i>	short-leaved evax	PDASTE5011			G4T2T3	S2S3	1B.2	
87 <i>Hesperolinon bicarpellatum</i>	two-carpellate western flax	PDLIN01020			G2	S2.2	1B.2	
88 <i>Horkelia marinensis</i>	Point Reyes horkelia	PDROS0W0B0			G2	S2.2	1B.2	
89 <i>Horkelia tenuiloba</i>	thin-lobed horkelia	PDROS0W0E0			G2	S2.2	1B.2	
90 <i>Hydrochara rickseckeri</i>	Ricksecker's water scavenger beetle	IICOL5V010			G1G2	S1S2		
91 <i>Hydroporus leechi</i>	Leech's skyline diving beetle	IICOL55040			G1?	S1?		
92 <i>Hysteroecarpus traski</i> pomo	Russian River tule perch	AFCQK02011			G5T2	S2		SC
93 <i>Lasiurus cinereus</i>	hoary bat	AMACC05030			G5	S4?		
94 <i>Lasthenia burkei</i>	Burke's goldfields	PDAST5L010	Endangered	Endangered	G1	S1.1	1B.1	
95 <i>Lasthenia californica</i> ssp. <i>bakeri</i>	Baker's goldfields	PDAST5L0C4			G3TH	SH	1B.2	
96 <i>Lasthenia californica</i> ssp. <i>macrantha</i>	perennial goldfields	PDAST5L0C5			G3T2	S2.2	1B.2	
97 <i>Lasthenia conjugens</i>	Contra Costa goldfields	PDAST5L040	Endangered		G1	S1.1	1B.1	
98 <i>Laterallus jamaicensis coturniculus</i>	California black rail	ABNME03041		Threatened	G4T1	S1		
99 <i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	Delta tule pea	PDFAB250D2			G5T2	S2.2	1B.2	
100 <i>Lavinia symmetricus navarroensis</i>	Navarro roach	AFCJB19023			G5T1T2	S1S2		SC

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Scientific Name	Common Name	Element Code	Federal Status	State Status	Global Rank	State Rank	CNPS	CDFG
101 <i>Lavinia symmetricus parvipinnis</i>	Gualala roach	AFCJB19025			G5T1T2	S1S2		SC
102 <i>Layia septentrionalis</i>	Colusa layia	PDAST5N0F0			G2	S2.2	1B.2	
103 <i>Legenere limosa</i>	legenere	PDCAM0C010			G2	S2.2	1B.1	
104 <i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	PDPLM09140			G2	S2.2	1B.2	
105 <i>Leptosiphon rosaceus</i>	rose leptosiphon	PDPLM09180			G1	S1.1	1B.1	
106 <i>Lessingia arachnoidea</i>	Crystal Springs lessingia	PDAST5S0C0			G1	S1.2	1B.2	
107 <i>Lichnanthe ursina</i>	bumblebee scarab beetle	IICOL67020			G2	S2		
108 <i>Lilium maritimum</i>	coast lily	PMLIL1A0C0			G2	S2.1	1B.1	
109 <i>Lilium pardalinum ssp. pitkinense</i>	Pitkin Marsh lily	PMLIL1A0H3	Endangered	Endangered	G5T1	S1.1	1B.1	
110 <i>Limnanthes vinculans</i>	Sebastopol meadowfoam	PDLIM02090	Endangered	Endangered	G2	S2.1	1B.1	
111 <i>Linderiella occidentalis</i>	California linderiella	ICBRA06010			G3	S2S3		
112 <i>Lupinus sericatus</i>	Cobb Mountain lupine	PDFAB2B3J0			G2	S2.2	1B.2	
113 <i>Lupinus tidestromii</i>	Tidestrom's lupine	PDFAB2B3Y0	Endangered	Endangered	G2	S2.1	1B.1	
114 <i>Lycopodium clavatum</i>	running-pine	PPLYC01080			G5	S4.1	4.1	
115 <i>Melospiza melodia samuelis</i>	San Pablo song sparrow	ABPBXA301W			G5T2?	S2?		SC
116 Mendocino Pygmy Cypress Forest	Mendocino Pygmy Cypress Forest	CTT83161CA			G2	S2.1		
117 <i>Microseris paludosa</i>	marsh microseris	PDAST6E0D0			G2	S2.2	1B.2	
118 <i>Monardella villosa ssp. globosa</i>	robust monardella	PDLAM180P7			G5T2	S2.2	1B.2	
119 <i>Myotis evotis</i>	long-eared myotis	AMACC01070			G5	S4?		
120 <i>Myotis thysanodes</i>	fringed myotis	AMACC01090			G4G5	S4		
121 <i>Myotis yumanensis</i>	Yuma myotis	AMACC01020			G5	S4?		
122 <i>Navarretia leucocephala ssp. bakeri</i>	Baker's navarretia	PDPLM0C0E1			G4T2	S2.1	1B.1	
123 <i>Navarretia leucocephala ssp. plieantha</i>	many-flowered navarretia	PDPLM0C0E5	Endangered	Endangered	G4T1	S1.2	1B.2	
124 Northern Coastal Salt Marsh	Northern Coastal Salt Marsh	CTT52110CA			G3	S3.2		
125 Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA			G3	S3.1		
126 Northern Vernal Pool	Northern Vernal Pool	CTT44100CA			G2	S2.1		
127 <i>Oncorhynchus kisutch</i>	coho salmon - central California coast ESU	AFCHA02034	Endangered	Endangered	G4	S2?		
128 <i>Oncorhynchus mykiss irideus</i>	steelhead - central California coast ESU	AFCHA0209G	Threatened		G5T2Q	S2		
129 <i>Pandion haliaetus</i>	osprey	ABNKC01010			G5	S3		
130 <i>Penstemon newberryi</i> var. <i>sonomensis</i>	Sonoma beardtongue	PDSCR1L483			G4T1	S1.3	1B.3	
131 <i>Phalacrocorax auritus</i>	double-crested cormorant	ABNFD01020			G5	S3		
132 <i>Piperia candida</i>	white-flowered rein orchid	PMORC1X050			G3	S3.2	1B.2	
133 <i>Plagiobothrys mollis</i> var. <i>vestitus</i>	Petaluma popcorn-flower	PDBOR0V0Q2			G4?TX	SX	1A	
134 <i>Pleuropogon hooverianus</i>	North Coast semaphore grass	PMPOA4Y070		Threatened	G1	S1.1	1B.1	

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Selected Elements by Scientific Name - Landscape

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135 Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020			G2	S2		SC
136 Polygonum marinense	Marin knotweed	PDPGN0L1C0			G1Q	S1.1	3.1	
137 Potentilla hickmanii	Hickman's cinquefoil	PDROS1B0U0	Endangered	Endangered	G1	S1.1	1B.1	
138 Progne subis	purple martin	ABPAU01010			G5	S3		SC
139 Rallus longirostris obsoletus	California clapper rail	ABNME05016	Endangered	Endangered	G5T1	S1		
140 Rana boylei	foothill yellow-legged frog	AAABH01050			G3	S2S3		SC
141 Rana draytonii	California red-legged frog	AAABH01022	Threatened		G4T2T3	S2S3		SC
142 Reithrodontomys raviventris	salt-marsh harvest mouse	AMAFF02040	Endangered	Endangered	G1G2	S1S2		
143 Rhynchospora alba	white beaked-rush	PMCYP0N010			G5	S3.2	2.2	
144 Rhynchospora californica	California beaked-rush	PMCYP0N060			G1	S1.1	1B.1	
145 Rhynchospora capitellata	brownish beaked-rush	PMCYP0N080			G5	S2S3	2.2	
146 Rhynchospora globularis var. globularis	round-headed beaked-rush	PMCYP0N0W1			G5?T5?	S1.1	2.1	
147 Riparia riparia	bank swallow	ABPAU08010		Threatened	G5	S2S3		
148 Sidalcea calycosa ssp. rhizomata	Point Reyes checkerbloom	PDMAL11012			G5T2	S2.2	1B.2	
149 Sidalcea hickmanii ssp. viridis	Marin checkerbloom	PDMAL110A4			G3T2	S2.2?	1B.3	
150 Sidalcea malachroides	maple-leaved checkerbloom	PDMAL110E0			G3G4	S3S4.2	4.2	
151 Sidalcea malviflora ssp. purpurea	purple-stemmed checkerbloom	PDMAL110FL			G5T2	S2.2	1B.2	
152 Sidalcea oregana ssp. hydrophila	marsh checkerbloom	PDMAL110K2			G5T2?	S2?	1B.2	
153 Sidalcea oregana ssp. valida	Kenwood Marsh checkerbloom	PDMAL110K5	Endangered	Endangered	G5T1	S1.1	1B.1	
154 Sorex ornatus sinuosus	Suisun shrew	AMABA01103			G5T1	S1		SC
155 Speyeria zerene behrensii	Behren's silverspot butterfly	IILEPJ6088	Endangered		G5T1	S1		
156 Speyeria zerene myrtleae	Myrtle's silverspot	IILEPJ6089	Endangered		G5T1	S1		
157 Streptanthus brachiatus ssp. brachiatus	Socrates Mine jewel-flower	PDBRA2G072			G2T1	S1.2	1B.2	
158 Streptanthus brachiatus ssp. hoffmanii	Freed's jewel-flower	PDBRA2G071			G2T1	S1.2	1B.2	
159 Streptanthus breweri var. hesperidis	green jewel-flower	PDBRA2G092			G5T2	S2.2	1B.2	
160 Streptanthus glandulosus var. hoffmanii	Hoffman's bristly jewel-flower	PDBRA2G0J4			G4TH	SH	1B.3	
161 Streptanthus morrisonii	see individual subspecies!	PDBRA2G0S0			G2	S2		
162 Syncaris pacifica	California freshwater shrimp	ICMAL27010	Endangered	Endangered	G1	S1		
163 Taxidea taxus	American badger	AMAJF04010			G5	S4		SC
164 Trachykele hartmani	serpentine cypress wood-boring beetle	IICOLX6010			G1	S1		
165 Tracyina rostrata	beaked tracyina	PDAST9D010			G1G2	S1S2.2	1B.2	
166 Trifolium amoenum	two-fork clover	PDFAB40040	Endangered		G1	S1.1	1B.1	
167 Trifolium buckwestiorum	Santa Cruz clover	PDFAB402W0			G1	S1.1	1B.1	
168 Trifolium depauperatum var. hydrophilum	saline clover	PDFAB400R5			G5T2?	S2.2?	1B.2	

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169 Tryonia imitator	mimic tryonia (=California brackishwater snail)	IMGASJ7040			G2G3	S2S3		
170 Usnea longissima	long-beard lichen	NLLEC5P420			G4	S4.2		
171 Valley Needlegrass Grassland	Valley Needlegrass Grassland	CTT42110CA			G1	S3.1		
172 Viburnum ellipticum	oval-leaved viburnum	PDCPR07080			G5	S2.3	2.3	

These buttons will not appear on your list.

Revise Selection

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Make Official Letter

U.S. Fish & Wildlife Service

Sacramento Fish & Wildlife Office

Federal Endangered and Threatened Species that Occur in
or may be Affected by Projects in the Counties and/or
U.S.G.S. 7 1/2 Minute Quads you requested

Document Number: 081113024800

Database Last Updated: September 11, 2008

No quad species lists requested.

County Lists

Sonoma County

Listed Species

Invertebrates

- *Haliotes sorenseni*
 - white abalone (E) (NMFS)

- *Speyeria zerene behrensii*
 - Behren's silverspot butterfly (E)

- *Speyeria zerene myrtleae*
 - Myrtle's silverspot butterfly (E)

- *Syncaris pacifica*
 - California freshwater shrimp (E)

Fish

- *Acipenser medirostris*
 - green sturgeon (T) (NMFS)

- *Eucyclogobius newberryi*
 - critical habitat, tidewater goby (X)
 - tidewater goby (E)

- *Oncorhynchus kisutch*
 - coho salmon - central CA coast (E) (NMFS)
 - Critical habitat, coho salmon - central CA coast (X) (NMFS)

- *Oncorhynchus mykiss*
 - Central California Coastal steelhead (T) (NMFS)
 - Critical habitat, Central California coastal steelhead (X) (NMFS)
 - Critical habitat, Northern California steelhead (X) (NMFS)
 - Northern California steelhead (T) (NMFS)

- *Oncorhynchus tshawytscha*
 - California coastal chinook salmon (T) (NMFS)
 - Central Valley spring-run chinook salmon (T) (NMFS)
 - Critical habitat, California coastal chinook salmon (X) (NMFS)
 - Critical habitat, winter-run chinook salmon (X) (NMFS)
 - winter-run chinook salmon, Sacramento River (E) (NMFS)

Amphibians

- *Ambystoma californiense*
 - California tiger salamander, Sonoma Co. pop (E)

- *Rana aurora draytonii*
 - California red-legged frog (T)

Reptiles

- *Caretta caretta*
 - loggerhead turtle (T) (NMFS)

- *Chelonia mydas* (incl. *agassizi*)
 - green turtle (T) (NMFS)

- *Dermochelys coriacea*
 - leatherback turtle (E) (NMFS)

- *Lepidochelys olivacea*
 - olive (=Pacific) ridley sea turtle (T) (NMFS)

Birds

- *Brachyramphus marmoratus*
 - Critical habitat, marbled murrelet (X)
 - marbled murrelet (T)
- *Charadrius alexandrinus nivosus*
 - western snowy plover (T)
- *Diomedea albatrus*
 - short-tailed albatross (E)
- *Pelecanus occidentalis californicus*
 - California brown pelican (E)
- *Rallus longirostris obsoletus*
 - California clapper rail (E)
- *Strix occidentalis caurina*
 - northern spotted owl (T)

Mammals

- *Arctocephalus townsendi*
 - Guadalupe fur seal (T) (NMFS)
- *Balaenoptera borealis*
 - sei whale (E) (NMFS)
- *Balaenoptera musculus*
 - blue whale (E) (NMFS)
- *Balaenoptera physalus*
 - finback (=fin) whale (E) (NMFS)
- *Eubalaena (=Balaena) glacialis*
 - right whale (E) (NMFS)

- *Eumetopias jubatus*
 - Steller (=northern) sea-lion (T) (NMFS)

- *Megaptera novaeangliae*
 - humpback whale (E) (NMFS)

- *Physeter catodon* (=macrocephalus)
 - sperm whale (E) (NMFS)

- *Reithrodontomys raviventris*
 - salt marsh harvest mouse (E)

Plants

- *Alopecurus aequalis* var. *sonomensis*
 - Sonoma alopecurus (E)

- *Astragalus clarianus*
 - Clara Hunt's milk-vetch (E)

- *Blennosperma bakeri*
 - Baker's stickyseed [=Sonoma Sunshine] (E)

- *Carex albida*
 - white sedge (E)

- *Clarkia imbricata*
 - Vine Hill clarkia (E)

- *Cordylanthus tenuis* ssp. *capillaris*
 - Pennell's bird's-beak (E)

- *Delphinium bakeri*
 - Critical habitat, Baker's larkspur (X)

- *Delphinium luteum*
 - Critical habitat, yellow larkspur (X)
 - yellow larkspur (E)

- *Eryngium constancei*
 - Loch Lomond coyote-thistle (=button-celery) (E)

- *Lasthenia burkei*
 - Burke's goldfields (E)

- *Lilium pardalinum* ssp. *pitkinense*
 - Pitkin Marsh lily (E)

- *Limnanthes vinculans*
 - Sebastopol meadowfoam (E)

- *Lupinus tidestromii*
 - clover lupine [Tidestrom's lupine] (E)

- *Navarretia leucocephala* ssp. *pliantha*
 - many-flowered navarretia (E)

- *Sidalcea oregana* ssp. *valida*
 - Kenwood Marsh checkermallow (=checkerbloom) (E)

Candidate Species

Invertebrates

- *Haliotes cracherodii*
 - black abalone (C) (NMFS)

Key:

- (E) Endangered - Listed as being in danger of extinction.
- (T) Threatened - Listed as likely to become endangered within the foreseeable future.
- (P) Proposed - Officially proposed in the Federal Register for listing as endangered or threatened.
- (NMFS) Species under the Jurisdiction of the [National Oceanic & Atmospheric Administration Fisheries Service](#). Consult with them directly about these species.
- Critical Habitat - Area essential to the conservation of a species.
- (PX) Proposed Critical Habitat - The species is already listed. Critical habitat is being proposed for it.
- (C) Candidate - Candidate to become a proposed species.
- (V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.
- (X) Critical Habitat designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, or may be affected by projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

Surveying

Some of the species on your list may not be affected by your project. A trained biologist and/or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list.

See our [Protocol](#) and [Recovery Permits](#) pages.

For plant surveys, we recommend using the [Guidelines for Conducting and Reporting Botanical Inventories](#). The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal [consultation](#) with the Service.
- During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.
- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by

your project.

- Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as critical habitat. These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our [Map Room](#) page.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. [More info](#)

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6580.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be February 11, 2009.