Table C-1 Special Status Species Known to Inhabit or Potentially Inhabiting the Project Area

Common Name Scientific Name	Status Federal/ State/CNPS	Habitat	agriculture	vernal pool	non-native grassland	native grassland	blue oak	valley oak	toothill pine/oak	freshwater marsh	lacustrine	mixed coniferous	cypress	chamise chapparral	Occurrence in the Sacramento River Division
<u>Plants</u>															
Henderson's Bent Grass Agrostis Hendersonii	SC//3	Valley and foothill grassland, vernal pool, wetland. Moist places in grassland or vernal pool habitat.		х	X	X									Р
Jepson's Milk-vetch Astragalus rattanii var jepsonianus	//1B	Valley and foothill grassland, ultramafic, cismontane woodland. Commonly on serpentine in grassland or openings in chaparral.			X	х									P
Ferris's Milk-vetch Astragalus tener var ferrisiae	SC//1B	Meadow and seep, valley and foothill grassland, wetland. Found on subalkaline flats on overflow land in the Central Valley. Usually dry, adobe soils.			X	Х	-				-		-		P
Heartscale Atriplex cordulata	SC//1B	Meadow and seep, chenopod scrub, valley and foothill grassland. Alkaline flats and scalds in the Central Valley, sandy soils.			X	Х									P
Brittlescale Atriplex cordulata	//1B	Vernal pool, meadow and seep, wetland, alkali playa, chenopod scrub, valley and foothill grassland. Usually in alkali scalds or alkaline clay in meadows or annual grassland. Rarely associated with riparian areas, marshes, or vernal pools.		X	X	X									P
San Joaquin Saltbush (Valley Spearscale) Atriplex joaquiniana	SC//1B	Chenopod scrub, meadow and seep, valley and foothill grassland. In seasonal alkali wetlands or alkali sink scrub with distichlis spicata, frankenia, etc.			X	Х	_		_		-		-		P
Persistent-fruited saltscale Atriplex persistens	SC//	Wetland, chenopod scrub, vernal pool. Exact habitat unclear from original publication: wet depressions or vernal ponds within some unnamed habitat.		X											Р

Table C-1
Special Status Species Known to Inhabit or Potentially Inhabiting the Project Area (continued)

Common Name Scientific Name	Status Federal/ State/CNPS	Habitat	agriculture	vernal pool	non-native grassland	native grassland	blue oak	valley oak	foothill nine/oak	freshwater	lacustrine	mixed coniferous	cypress	chamise chaparral	Occurrence in the Sacramento River Division
Indian Valley Brodiaea Brodiaea coronaria ssp rosea	SC/E/1B	Serpentine gravelly creek bottoms and meadows and swales in cismontane woodland, valley and foothill grassland, meadow and seep, closed-cone coniferous forest, chaparral, and ultramafic.					-				-		-		Р
Fox sedge Carex vulpinoidea	//2	Wet places.													P
Hoover's Spurge Chamaesyce hooveri	SC//1B	Valley and foothill grassland, wetland, vernal pool. Vernal pools on volcanic mudflow or clay substrate.		Х	X	х									P
Plamate-Bracted Bird's Beak Cordylanthus palmatus	E/E/1B	Chenopod scrub, meadow and seep, valley and foothill grassland, wetland. Usually on pescadero silty clay which is alkaline with distichlis, frankenia, etc.			X	X	-				-		_		P
Silky Cryptantha Cryptantha crinita	SC//1B	Gravelly stream beds of lower montane coniferous forest, cismontane woodland, riparian forest, riparian woodlands, valley and foothill grassland.													P
Recurved Larkspur Delphinium recurvatum	SC//1B	Alkaline soils in valley saltbush or valley chenopod scrub.													U
Dwarf Downingia Downingia pusilla	//2	Valley and foothill grassland, vernal pool, wetland. Vernal lake and pool margins with a variety of associates. In several types of vernal pools. 1-485 m.		X	X	X									Р
Four-angled Spikerush Eleocharis quadrangulata	//2	Marsh and swamp, freshwater marsh, wetland. Freshwater marshes, lake and pond margins. 20-500 m.					_			X	_		1		Р
Brandegee's eriastrum Eriastrum brandegeae	SC//1B	Chaparral, cismontane woodland. On barren volcanic soils; often in open areas. 345-1000 M.													U
Snow mountain buckwheat Eriogonum nervulosum	SC//1B	Chaparral, ultramafic. Dry serpentine outcrops, balds, and barrens. 300-2100 M.												X	P
Diamond-petaled California poppy Eschscholzia rhombipetala	SC//1A	Valley and foothill grassland. Alkaline, clay slopes and flats. 0-975 M.			X	Х									Р
Adobe-lily Fritillaria Pluriflora	SC//1B	Ultramafic, chaparral, cismontane woodland, valley and foothill grassland. Usually on clay soils; sometimes serpentine. 55-820 m.			X	Х	-				-		-	Х	P

Table C-1
Special Status Species Known to Inhabit or Potentially Inhabiting the Project Area (continued)

Common Name Scientific Name	Status Federal/ State/CNPS	Habitat	agriculture	vernal pool	non-native grassland	native grassland	blue oak	valley oak	foothill nine/oak	freshwater	lacustrine	mixed coniferous	cypress	chamise chaparral	Occurrence in the Sacramento River Division
Boggs Lake Hedge-hyssop Gratiola heterosepala	/E/1B	Freshwater marsh, marsh and swamp, vernal pool, wetland. Clay soils; usually in vernal pools, sometimes on lake margins. 5-2400 m.		X			-			X	_		_		P
Drymaria Dwarf-flax Hesperolinon drymarioides	SC//1B	Chaparral, cismontane woodland, ultramafic, valley and foothill grassland, closed-cone coniferous forest. Serpentine soils, mostly within chaparral. 390-1000 M.			X	X						X			P
Tehama Dwarf-flax Hesperolinon tehamense	SC//1B	Chaparral, cismontane woodland, ultramafic. Serpentine barrens in chaparral. 545-1155 M.												X	P
Rose-mallow Hibiscus lasiocarpus	//2	Freshwater marsh, marsh and swamp, wetland. Moist, freshwater-soaked river banks and low peat islands in sloughs; in California, known from the delta watershed. 0-150 m.					-		_	X	-		_		P
Red Bluff Dwarf Rush Juncus leiospermus var leiospermus	//1B	Chaparral, cismontane woodland, valley and foothill grassland, vernal pool, wetland. Vernally mesic sites. Sometimes on edges of vernal pools. 30-1020 m.		х	X	Х									P
Colusa layia Layia septentrionalis	//1B	Chaparral, cismontane woodland, ultramafic, valley and foothill grassland. Scattered colonies in fields and grassy slopes in sandy or serpentine soil. 145-1095 m.			X	X									P
Legenere Legenere limosa	SC//1B	Vernal pool, wetland. In beds of vernal pools. 1-880 m.		X			-				_		-		Р
Heckard's Pepper-grass Lepidium latipes var heckardii	//1B	Valley and foothill grassland, vernal pool, wetland. Grassland, and sometimes vernal pool edges. Alkaline soils. 3-30 m.		X	X	х	_				_		_		P
Wooly Meadowfoam Limnanthes floccosa ssp flocosa	//2	Chaparral, vernal pool, wetland, cismontane woodland, valley and foothill grassland. Vernally wet areas, ditches, and ponds. 60-1275 m.		X	X	X									Р
Red-flowered lotus Lotus rubriflorus	SC//1B	Valley and foothill grassland, cismontane woodland. Most recent sightings from sterile, red soils-volcanic mudflow deposits. 200-425 M.			X	X									P
Milo Baker's lupine Lupinus milo-bakeri	SC/T/1B	Cismontane woodland, valley and foothill grassland. In roadside ditches, dry gravelly areas along roads, and along small streams. 360-440 m.			X	X	-				_		_		Р

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Table C-1
Special Status Species Known to Inhabit or Potentially Inhabiting the Project Area (continued)

Common Name Scientific Name	Status Federal/ State/CNPS	Habitat	agriculture	vernal pool	non-native grassland	native grassland	blue oak	valley oak	foothill nine/oak	freshwater	marsn lacustrine	mixed coniferous	cypress	chamise chanarral	Occurrence in the Sacramento River Division
Hall's Madia <i>Madia hallii</i>	SC//1B	Chaparral, ultramafic. Serpentine hills and ridges. Open, rocky areas within chaparral. 270-910 m.					-				_		-	х	Р
Little mousetail Myosurus minimus ssp apus	SC//3	Vernal pool, wetland. Alkaline soils. 20-640 M. Note: Central Valley EO's not mapped.)		Х											
Baker's Navarretia Navarretia leucocephala ssp bakeri	//1B	Cismontane woodland, lower montane coniferous forest, meadow and seep, vernal pool, wetland, valley and foothill grassland. Vernal pools and swales; adobe or alkaline soils. 5-950 m.		X	X	X									Р
Colusa Grass Neostapfia colusana	T/E/1B	Vernal pool, wetland. Usually in large, or deep vernal pool bottoms; adobe soils. 5-110 m.	_	X			_		_		_		-		P
Hairy Orcutt Grass Orcuttia pilosa	E/E/1B	Vernal pool, wetland. 25-125 m.	_	X			-		_		_		-		Р
Ahart's Paronychia Paronychia ahartii	SC//1B	Cismontane woodland, valley and foothill grassland, vernal pool, wetland. Stony, nearly barren clay of swales and higher ground around vernal pools. 30-150 m.		Х	X	х	-				_		-		Р
Red mountain catchfly Silene campanulata ssp campanulata	SC/E/1B	Lower montane coniferous forest, ultramafic, chaparral. Rocky dry shallow serpentine soil. 420-1200 M.										Х			Р
Wright's Trichocoronis Trichocoronis wrightii var wrightii	//2	Marsh and swamp, riparian forest, wetland, meadow and seep, vernal pool. Mud flats of vernal lakes, drying river beds, alkali meadows. 5-435 m.		X			_		_	X	-		_		P
Caper-fruited Tropidocarpum Tropidocarpum capparideum	SC//1A	Valley and foothill grassland. Alkaline hills. 0-455 m.			X	X	-				_		-		Р
<u>Invertebrates</u>															
Antioch Dunes Anthicid Beetle Anthicus antiochensis	SC/	Interior dunes, inhabit sand slipfaces among bamboo and willow.													U
Sacramento Anthicid Beetle Anthicus Sacramento	SC/	Interior dunes, inhabit sand slipfaces among bamboo and willow.													U
Conservancy Fairy Shrimp Branchinecta conservatio	E/	Found in vernal pool, valley and foothill grassland, and wetland habitats. Inhabit astatic pools located in swales formed by old, braided alluvium, filled by winter and spring rains that last until June.		X	X	X									Р

Table C-1
Special Status Species Known to Inhabit or Potentially Inhabiting the Project Area (continued)

Common Name Scientific Name	Status Federal/ State/CNPS	Habitat	agriculture	vernal pool	non-native grassland	native grassland	blue oak	valley oak	foothill pine/oak	freshwater	lacustrine	mixed coniferous	cypress	chamise chaparral	Occurrence in the Sacramento River Division
Vernal Pool Fairy Shrimp Branchinecta lynchi	Т/	Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools. Found in vernal pools, valley and foothill grasslands, and wetlands.	_				-		_		-		_		Р
Valley Elderberry Longhorn Beetle <i>Desmocerus californicus</i> <i>dimorphus</i>	Т/	Lays eggs in elderberries 2-8 inches in diameter in riparian areas. Stressed elderberries may be preferred.													Р
Vernal Pool Tadpole Shrimp Lepidurus packardi	E/	Vernal pool, valley and foothill grassland, wetland. Pools commonly found in grass bottomed swales of unplowed grasslands. Some pools are mud- bottomed and highly turbid.		X	X	Х	-				-		1		Р
California Linderiella Fairy Shrimp Linderiella occidentalis	SC/	Vernal pool		х											P
California freshwater shrimp Syncaris pacifica	E/E	Aquatic, riparian forest, riparian woodlands, Sacramento/San Joaquin flowing waters. Shallow pools away from main streamflow. Winter: undercut banks with exposed roots. Summer: leafy branches touching water.													U
Fish															
Green Sturgeon Acipenser medirostris	SC/SC	Found in large rivers in the Sacramento and San Joaquin System.	_				_		_		-		_		U
Delta smelt Hypomesus transpacificus	T/T	Seldom found at salinities > 10 ppt most often at salinities < 2 ppt.													U
River Lamprey Lampetra ayresi	SC/SC	Sacramento and San Joaquin System including tributaries.													Р
Pacific Lamprey Lampetra tridentata	SC/	Sacramento and San Joaquin System including tributaries.													Р
Central Valley steelhead Oncorhynchus mykiss	T/	Utilizes freshwater streams for spawning and rearing.													U
Chinook Salmon Winter Run Oncorhynchus tshawytscha winter run	E/E	Requires clean, cold water over gravel beds with water temperatures between 6 and 14°C for spawning.					_				_		_		U

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Table C-1
Special Status Species Known to Inhabit or Potentially Inhabiting the Project Area (continued)

Common Name Scientific Name	Status Federal/ State/CNPS	Habitat	agriculture	vernal pool	non-native grassland	native grassland	blue oak	valley oak	foothill pine/oak	freshwater	lacustrine	mixed	cypress	chamise chaparral	Occurrence in the Sacramento River Division
Central Valley Chinook Salmon Spring Run Oncorhynchus tshawytscha spring run	T/T	Requires clean, cold water over gravel beds with water temperatures between 6 and 14°C for spawning.					-				_		_		U
Central Valley Chinook Salmon Spring Run Critical Habitat Oncorhynchus tshawytscha spring run	PX/														U
Central Valley Chinook Salmon Fall/Late Fall RunOncorhynchus tshanytscha fall/ late fall run	C/	Utilizes freshwater streams for spawning and rearing.					_				_		_		U
Sacramento splittail Pogonichthys macrolepidotus	T/SC	Aquatic, Sacramento/San Joaquin flowign waters, freshwater marsh, estuary. Slow moving river sections, dead end sloughs. Require flooded vegetation for spawning and foraging for young.													U
Longfin Smelt Spirinchus thaleichthys	SC/SC	Limited to the Delta.													U
Amphibians and Reptiles															
California Tiger Salamander Ambystoma californiense	C/SC	Cismontane woodland, meadow and seep, riparian woodlands, valley and foothill grassland, vernal pool, wetland. Need underground refuges, especially ground squirrel burrows and vernal pools or other seasonal water sources for breeding.		X	X	X	_				_		_		P
Northwestern Pond Turtle Clemmys marmorata marmorata	SC/SC	Marsh and swamp, Sacramento/San Joaquin flowing and standing waters, wetland, aquatic, artificial flowing and standing waters. Requires basking sites and nest sites may be up to 0.5km from water.								х					P
San Joaquin whipsnake Masticophil flagellum ruddocki	SC/SC	Needs mammal burrows for refuge and oviposition sites.	-				-				-		-		P

Table C-1
Special Status Species Known to Inhabit or Potentially Inhabiting the Project Area (continued)

Common Name Scientific Name	Status Federal/ State/CNPS	Habitat	agriculture	vernal pool	non-native grassland	native grassland	blue oak	valley oak	foothill pine/oak	freshwater	lacustrine	mixed coniferous	cypress	chamise chaparral	Occurrence in the Sacramento River Division
California red-legged frog Rana aurora draytonii	T/SC	Marsh and swamp, wetland, aquatic, Sacramento/San Joaquin flowing waters, south coastal flowing waters, riparian scrubs, south coastal standing waters, artificial standing waters, artificial standing waters, sacramento/San Joaquin standing waters, riparian woodlands, riparian forest, freshwater marsh. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.					-			X	-		-		p
Foothill Yellow-legged Frog R <i>ana boylii</i>	SC/	Aquatic, chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, meadow and seep, riparian forest, riparian woodlands, Sacramento/San Joaquin flowing waters, Klamath/North Coast flow waters. Need at least some cobble-sized substrate for egg-laying. Need at least 15 weeks to attain metamorphosis.					-		_		-	X	-		p
Western Spadefoot Scaphiopus hammondii	SC/	Cismontane woodland, coastal scrub, valley and foothill grassland, vernal pool, wetland. Vernal pools are essential for breeding and egg-laying.		Х	X	X									P
Giant Garter Snake Thamnophis gigas	T/T	Marsh and swamp, riparian scrubs, wetland. This is the most aquatic of the garter snakes in California.	_				-			Х	-		-		P
<u>Birds</u>															
Northern goshawk Accipiter gentilis (nesting)	SC/SC	Subalpine coniferous forest, upper montane coniferous forest, usually nests on north slopes, near water. Red fir, lodgepole pine, Jeffrey pine, and aspens are typical nest trees.					_					X			Р
Tricolored Blackbird Agelaius Tricolor	SC/SC	Marsh and swamp Requires open water, protected nesting substrate, & foraging area with insect prey within a few km of the colony.								X					Р
Bell's Sage Sparrow Amphispiza belli belli	SC/SC	Foothills of Central Valley. Prefers low, dense stands of shrubs.					-				-		-		Р
Golden Eagle (nesting and wintering) Aquila chrysaetos	/SC	Cismontane woodland, coastal prairie, great basin grassland, great basin scrub, valley and foothill grassland. Nesting habitat provided by cliff-walled canyons and large trees in open areas.			X	Х	-				-				Р?

Table C-1
Special Status Species Known to Inhabit or Potentially Inhabiting the Project Area (continued)

Common Name Scientific Name	Status Federal/ State/CNPS	Habitat	agriculture	vernal pool	non-native grassland	native grassland	blue oak	valley oak	foothill	freshwater	lacustrine	mixed coniferous	cypress	chamise	Occurrence in the Sacramento River Division
Burrowing Owl (Burrow sites) Athene cunicularia	SC/SC	Found in coastal prairie and scrub as well as Great Basin and valley and foothill grasslands. As a subterranean nester, dependent upon burrowing mammals such as the California ground squirrel.			X	Х	_		_		-		_		Р
Ferruginous Hawk Buteo regalis	SC/SC	Low elevations and open grasslands in Central Valley													Р
Swainson's Hawk (Nesting) Buteo Swainsoni	/T	Great Basin grassland, riparian forest, riparian woodlands, valley and foothill grassland with adjacent suitable foraging areas such as grasslands or alfalfa or grain fields supporting rodent populations.	X		X	X									Р
Mountain plover Charadrius montanus (wintering)	PT/SC	Valley and foothill grassland, chenopod scrub, short vegetation, bare ground and flat topography. Prefer grazed areas and areas with burrowing rodents.	X		X	X	_		_		_				
Western Yellow-billed Cuckoo Coccyzus americanus occidentalis	/E	Dense, humid willow-and cottonwood forests with understory of blackberry, nettles, or wild grape adjacent to sloughs and slow moving rivers													U
Yellow warbler (nesting) Denfroica petechia brewsteri	/SC	Nests in riparian woodlands and montane shrubbery in open coniferous forests.										X			P
White-tailed Kite Elanus leucurus (nesting)	/	Cismontane woodland, marsh and swamp, riparian woodlands, valley and foothill grassland, wetland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.			X	Х				X					Р
Greater sandhill crane Grus canadensis tabida (nesting and wintering)	/T	Meadow and seep, marsh and swamp, wetland, prefer grain fields within 4 miles of a shallow body of water used as a communal roost site; irrigated pasture used as loaf sites.	X							X					Р
Bald eagle Haliaeetus leucocephalus (nesting and wintering)	T/E	Lower montane coniferous forest, old growth, nests in LG, old growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter.										X			Р
Yellow-breated Chat Icteria virens (nesting)	/	Riparian forest, riparian scrubs, riparian woodlands. Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forage and nest within 10 feet of ground.					-				-				Р

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Table C-1
Special Status Species Known to Inhabit or Potentially Inhabiting the Project Area (continued)

Common Name Scientific Name	Status Federal/ State/CNPS	Habitat	agriculture	vernal pool	non-native grassland	native	blue oak	valley oak	foothill	freshwater	lacustrine	mixed	cypress	chamise	Occurrence in the Sacramento River Division
Osprey Pandion haliaetus (nesting)	/	Riparian forest. Large nests built in treetops within 15 miles of good fish-producing body of water.					-				-		_		U
White-faced Ibis Plegadis chihi (rookery site)	SC/	Marsh and swamp, wetland. Dense tule thickets for nesting interspersed with areas of shallow water for foraging.								X					P
Bank Swallow Riparia riparia (nesting)	/T	Requires vertical banks/cliffs with fine- textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.													P
Northern spotted owl Strix occidentalis caurina	T/SC	North coast coniferous forest, old growth, redwood. High, multistory canopy dominated by big trees, many trees with cavities or broken tops, woody debris and space under canopy.					-				-	X	-		U
<u>Mammals</u>															
Pale Townsend's big-eared bat Plecotus townsendii pallescens	SC/SC	Mesic habitats in all but subalpine and alpine areas. Roosts in caves, mines, tunnels, buildings, or other human-made structures. Gleans from brush or trees or feeds along habitat edges.													Р
Pacific western big-eared bat Plecotus townsendii townsendii	SC/SC	Mesic habitats in all but subalpine and alpine areas. Roosts in caves, mines, tunnels, buildings, or other human-made structures. Gleans from brush or trees or feeds along habitat edges.													P
Marysville Heermann's Kangaroo Rat Dipodomys californicus eximius	SC/SC	Annual grassland, coastal scrub, mixed and montane chaparral, and early successional stages (sparse to open canopy) of valley foothill hardwood and valley foothill hardwood-conifer habitats.			X		х	X	X			X	-	х	Р
Spotted Bat Euderma maculatum	SC/SC	Lives in desert scrub and open forest areas. Roosts in cliff faces and rock crevices. Eats almost exclusively medium-sized moths, also beetles and caddisflies.													U
Pacific fisher Martes pennanti pacifica	SC/SC	North coast coniferous forest, old growth, riparian forest. Use cavities, snags, logs and rocky areas for cover & denning. Need large areas of mature, dense forest.					-		_		-	Х	-		P

Table C-1 Special Status Species Known to Inhabit or Potentially Inhabiting the Project Area (continued)

Common Name Scientific Name	Status Federal/ State/CNPS	Habitat	agriculture	vernal pool	non-native grassland	native grassland	blue oak	valley oak	foothill pine/oak	freshwater marsh	lacustrine	mixed coniferous	cypress	chamise chaparral	Occurrence in the Sacramento River Division
Small-footed myotis bat Myotis eiliolabrum	SC/	Exists on west and east sides of the Sierra Nevada to about 8,900 feet (2700 meters). Prefer open stands in forests, woodlands and brushy habitats. Roosts in caves, buildings, crevices and sometimes under bark and bridges.					X	Х	X		_	X	-	X	P
Long-eared myotis bat Myotis evotis	SC/	Lives in coniferous forests in mountain areas. Roosts in small colonies in caves, buildings and under tree bark.										Х			Р
Fringed myotis bat Myotis thysanodes	SC/	Lives in oak and juniper forests, desert scrub. Roosts in caves, abandoned mines, or buildings.	_				X	х	X		-		-		Р
Long-legged myotis bat Myotis yumanensis	SC/	Lives in forested mountainous areas, sometimes desert lowlands. Roosts in tree hollows and under bark, in crevices and buildings.									-				U
Yuma myotis bat Myotis yumanensis	SC/SC	Lives near lakes, creeks or ponds. Roosts by day under building sidings or shingles.													P
San Joaquin Pocket Mouse Perognathus inornatus inornatus	SC/	Coastal scrub, valley and foothill grassland. Needs friable soils.			X	X									P

Sources: California Natural Diversity Database search for the USGS 7.5 minute quadrangle maps for California that encompass the project area, September 2000. US Fish and Wildlife Service letter, September 20, 2000.

Federal Status Notes:

> E = Endangered T = Threatened

PE = Proposed endangered PT = Proposed threatened PX = Proposed critical habitat

C = Candidate

SC = Species of concern $DL = \hat{R}ecently delisted$

State Status

E = Endangered T = Threatened SC = California species of special concern

R = Rare

California Native Plant Society (CNPS)

Status

1A = Plants presumed extinct in California

1B = Rare, threatened, and endangered in California and elsewhere

2 = Rare, threatened, and endangered in California but more common elsewhere

3 = Plants about which more information is needed

Occurrence

C = ConfirmedP = Possible

U = Unlikely