

APPENDIX D
LIST OF BIOLOGICAL RESOURCES

**APPENDIX D
TABLE D-1
SENSITIVE WILDLIFE SPECIES**

Species	Status*	Habitat	Occurrence/Comments
Invertebrates			
Carlson's dune beetle <i>Anomala carlsoni</i>		Known primarily from creosote scrub in vicinity of Algodones dunes, Imperial Co. Also taken from Borrego, San Diego Co.	Host Preferences Unknown.
San Diego fairy shrimp <i>Branchinecta sandiegonensis</i>	FE MSCP MHCP (NE)	Vernal Pools	Endemic to San Diego and Orange County mesas
Thorne's hairstreak butterfly <i>Callophrys [Mitoura] thornei</i> or <i>Callophrys [Mitoura] grynea thornei</i>	FSC MSCP	Cypress woodland	
tiger beetle <i>Cicindela gabbii</i>		Inhabits estuaries and mudflats along the coast of southern California.	Generally found on dark-colored mud in the lower zone; occasionally found on dry saline flats of estuaries.
sandy beach tiger beetle <i>Cicindela hirticollis gravida</i>	FSC MHCP	Inhabits areas adjacent to non-brackish water along the coast of California from San Francisco Bay to northern Mexico	Clean, dry, light-colored sand in the upper zone. Subterranean larvae prefer moist sand not affected by wave action.
tiger beetle <i>Cicindela latesignata latesignata</i>		Mudflats and beaches in coastal southern California.	
tiger beetle <i>Cicindela senilis frosti</i>		Inhabits marine shoreline, from central California coast south to salt marshes of San Diego. Also found at Lake Elsinore	Inhabits dark-colored mud in the lower zone and dried salt pans in the upper zone.
Oblivious Tiger Beetle <i>Cicindela latesignata obliviosa</i>	MHCP (NE)	Coastal habitat along southern California	Presumed extinct.
globose dune beetle <i>Coelus globosus</i>	FSC	Inhabitant of coastal sand dune habitat, from Bodega Head in Sonoma County south to Ensenada, Mexico.	Inhabits foredunes and sand hummocks; it burrows beneath the sand surface and is most common beneath dune vegetation
monarch butterfly <i>Danaus plexippus</i>		Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico	Roosts located in wind-protected tree groves (eucalyptus, monterey pine, cypress), with nectar and water sources nearby.

Species	Status*	Habitat	Occurrence/Comments
quino checkerspot butterfly <i>Euphydryas editha quino</i>	FE MHCP	Sunny openings within chaparral & coastal sage shrublands in parts of Riverside & San Diego counties	Hills & mesas near the coast. Need high densities of food plants <i>plantago erecta</i> , <i>p. insularis</i> , <i>orthocarpus purpurescens</i>
Harbinson's dun skipper <i>Euphyes vestries harbonsini</i>	FSC MHCP (NE)	This species is restricted to riparian areas, intermittent streams, and oak woodlands where its larval host plant, San Diego sedge (<i>Carex spissa</i>), is present.	
Mesa shoulderband (snail) <i>Helminthoglypta coelata</i>		Known only from a few locations in coastal San Diego County	Found in rock slides, beneath bark and rotten logs, and among coastal vegetation.
Peak Shoulderband <i>Helminthoglypta milleri</i>		Known only from the type locality at Cuyamaca peak in San Diego County	Found in rock piles.
Hermes copper butterfly <i>Lycaena hermes</i>	FSC	Found in southern mixed chaparral & coastal sage scrub at western edge of Laguna mountains	Host plant is <i>rhamnus crocea</i> . although <i>r. crocea</i> is widespread throughout the coast range, <i>lycaena hermes</i> is not
wandering (saltmarsh) skipper <i>Panoquina errans</i>	FSC MSCP MHCP	Southern California coastal salt marshes.	Requires moist saltgrass for larval development.
Laguna Mountains skipper <i>Pyrgus ruralis lagunae</i>	FE	Only in a few open meadows in yellow pine forest between 5,000 & 6,000 ft. in the vicinity of Mt Laguna & Palomar mountains	Eggs laid on leaves of <i>horkelia bolanderi clevelandi</i> . larvae feed on leaves and overwinter on the host plant.
Warner Springs Shoulderband <i>Rothelix warnerfontis</i>		Abandoned wood rat nests and fallen logs and leaf mold of <i>Quercus agrifolia</i>	
Riverside fairy shrimp <i>Streptocephalus woottoni</i>	FE MSCP MHCP (NE)	Endemic to W Riv, Ora & Sdg counties in areas of tectonic swales/earth slump basins in grassland & coastal sage scrub.	Inhabit seasonally astatic pools filled by winter/spring rains. hatch in warm water later in the season.
mimic tryonia (=California brackishwater snail) <i>Tryonia imitator</i>		Inhabits coastal lagoons, estuaries and salt marshes, from Sonoma County south to San Diego County	Found only in permanently submerged areas in a variety of sediment types; able to withstand a wide range of salinities.
A sweat bee <i>Halictus harmonius</i>		Habitat preferences not well studied to date.	

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A cuckoo wasp <i>Parnopes borregoensis</i>		Habitat preferences not well studied to date.	
A mellitid bee <i>Melitta californica</i>		Habitat preferences not well studied to date.	
Fish			
desert pupfish <i>Cyprinodon macularius</i>	FE, CE	Desert ponds, springs, marshes and streams in southern California.	Can live in salinities from fresh water to 68 ppt, can withstand temps from 9 - 45 C & D.O. levels down to 0.1 ppm.
tidewater goby <i>Eucyclogobius newberryi</i>	FE, CSC	Brackish water habitats along the Calif coast from Agua Hedionda lagoon, San Diego Co. to the mouth of the Smith River	Found in shallow lagoons and lower stream reaches, they need fairly still but not stagnant water & high oxygen levels.
Mohave tui chub <i>Gila bicolor mohavensis</i>	FE, CE	Endemic to the Mojave River basin, adapted to alkaline, mineralized waters.	Needs deep pools, ponds, or slough-like areas. Needs vegetation for spawning.
arroyo chub <i>Gila orcuttii</i>	CSC	Los Angeles basin south coastal streams.	Slow water stream sections with mud or sand bottoms. feed heavily on aquatic vegetation & associated invertebrates.
southern steelhead - southern California esu <i>Oncorhynchus mykiss irideus</i>	FE, CSC	Fed listing refers to pops from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County)	Southern steelhead likely have greater physiological tolerances to warmer water & more variable conditions.
Amphibians (Nomenclature from Collins 1997)			
Arroyo Toad <i>Bufo californicus</i>	FE, CSC MSCP MHCP	Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc.	Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.
large-blotched salamander <i>Ensatina klauberi</i>	FSC, CSC	Moist shaded evergreen and deciduous forests and oak woodlands	Found under rocks, logs, other debris, especially bark that has peeled off and fallen beside logs and trees. Most common where there is a lot of coarse woody debris on the forest floor

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California red-legged frog <i>Rana aurora draytonii</i>	FT, CSC MSCP	Slow parts of streams, lakes, reservoirs, ponds, and other usually permanent water sources; primarily in wooded areas in lowlands and foothills, but also can be found in grassland. Typical habitat consists of deep-water pools ringed by thick vegetation (especially arroyo willow or native cattails).	
mountain yellow-legged frog <i>Rana muscosa</i>	FE, CSC	Federal listing refers to populations in the San Gabriel, San Jacinto & San Bernardino mountains only.	Always encountered within a few feet of water. tadpoles may require 2 - 4 yrs to complete their aquatic development.
Coast Range newt <i>Taricha torosa torosa</i>	CSC	oak forests, chaparral, grasslands	
western spadefoot <i>Spea hammondi</i>	CSC MHCP	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	Vernal pools are essential for breeding and egg-laying.
Reptiles (Nomenclature from Collins 1997)			
southwestern pond turtle <i>Actinemys marmorata pallida</i>	FSC, CSC MSCP MHCP	Slow-moving permanent or intermittent streams, small ponds, and small lakes	The Buena Vista Lagoon, Escondido Creek, and San Luis Rey River are considered major populations and critical locations.
silvery legless lizard <i>Anniella pulchra pulchra</i>	CSC	Sandy or Loose Loamy Soils Under Sparse Vegetation.	Soil moisture is essential. They prefer soils with a high moisture content.
orange-throated whiptail <i>Aspidoscelis hyperythra</i>	MHCP MSCP	Inhabits Low-Elevation Coastal Scrub, Chaparral, and Valley-Foothill Hardwood Habitats.	Prefers washes & other sandy areas with patches of brush & rocks. Perennial plants necessary for its major food-termites
coastal western whiptail <i>Aspidoscelis tigris stejnegeri</i>		Chaparral, woodland, riparian	
rosy boa <i>Charina trivirgata</i>		Desert & Chaparral from the Coast to the Mojave & Colorado Deserts. Prefers Moderate to Dense Vegetation & Rocky Cover.	Habitats with a mix of brushy cover & rocky soil such as coastal canyons & hillsides, desert canyons, washes & mountains
barefoot banded gecko <i>Coleonyx switaki</i>	CT	Found Only in Areas Of Massive Rock & Rock Outcrops At the Heads Of Canyons.	Occurs in rock cracks & crevices
San Diego banded gecko <i>Coleonyx variegatus abbotti</i>		Coastal & Cismontane Southern California.	Found in granite or rocky outcrops in coastal scrub & chaparral habitats.

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northern red-diamond rattlesnake <i>Crotalus ruber ruber</i>	CSC	Chaparral, Woodland, Grassland, & Desert Areas from Coastal San Diego County to the Eastern Slopes Of the Mountains.	Occurs in rocky areas & dense vegetation. needs rodent burrows, cracks in rocks or surface cover objects.
San Diego ringneck snake <i>Diadophis punctatus similis</i>	FSC	Moist habitats, including wet meadows, rocky hillsides, gardens, farmland, grassland, chaparral, mixed coniferous forests, woodlands.	
Coronado skink <i>Eumeces skiltonianus interparietalis</i>	CSC	Grassland, Chaparral, Pinon-Juniper & Juniper Sage Woodland, Pine-Oak & Pine Forests in Coast Ranges Of Southern Calif.	Prefers early successional stages or open areas. Found in rocky areas close to streams & on dry hillsides.
California mountain kingsnake (San Diego population) <i>Lampropeltis zonata (pulchra)</i>		Restricted to the San Gabriel and San Jacinto Mtns Of Southern California.	Inhabits a variety of habitats, including valley-foothill hardwood, coniferous, chaparral, riparian, and wet meadows.
Coast (San Diego) horned lizard <i>Phrynosoma coronatum (blainvillii population)</i>	CSC MSCP	Inhabits Coastal Sage Scrub and Chaparral in Arid and Semi-Arid Climate Condit	Prefers friable, rocky, or shallow sandy soils.
flat-tailed horned lizard <i>Phrynosoma mcallii</i>	CP, CSC	Restricted to Desert Washes and Desert Flats in Central Riverside, Eastern San Diego, and Imperial Counties.	Critical habitat element is fine sand, into which lizards burrow to avoid temp extremes; require veg cover and ants.
coast patch-nosed snake <i>Salvadora hexalepis virgultea</i>	CSC	Brushy or Shrubby Vegetation in Coastal Southern California.	Require small mammal burrows for refuge and overwintering sites.
two-striped garter snake <i>Thamnophis hammondi</i>	CSC	Coastal California from Vicinity Of Salinas to Northwest Baja California. from Sea to About 7,000 Ft Elevation.	Highly aquatic, found in or near permanent fresh water. often along streams with rocky beds and riparian growth.
Colorado Desert fringe-toed lizard <i>Uma notata</i>	CSC	Colorado Desert Region; in Sand Dunes, Dry Lakebeds, Sandy Beaches or Riverbanks, Desert Washes, or Sparse Desert Scrub.	Requires fine, loose, windblown sand (for burrowing); shrubs or annuals for arthropod production.
Birds (Nomenclature from American Ornithologists Union)			
Cooper's hawk <i>Accipiter cooperii</i>	CSC MSCP MHCP	Woodland, Chiefly Of Open, Interrupted or Marginal Type	Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks

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tricolored blackbird <i>Agelaius tricolor</i>	CSC MSCP	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
southern California rufous-crowned sparrow <i>Aimophila ruficeps canescens</i>	CSC MSCP MHCP	Resident in Southern California Coastal Sage Scrub and Sparse Mixed Chaparral	Frequents relatively steep, often rocky hillsides with grass & forb patches.
Bell's sage sparrow <i>Amphispiza belli belli</i>	CSC MHCP	Nests in Chaparral Dominated By Fairly Dense Stands Of Chamise. Found in Coastal Sage Scrub in South Of Range	Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart.
golden eagle <i>Aquila chrysaetos</i>	CSC, CFP MSCP MHCP	Rolling Foothills, Mountain Areas, Sage-Juniper Flats, & Desert.	Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.
long-eared owl <i>Asio otus</i>	CSC	Riparian bottomlands grown to tall willows & cottonwoods; also, belts of live oak paralleling stream courses	Require adjacent open land productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.
burrowing owl <i>Athene cunicularia</i>	CSC MSCP	Open, dry annual or perenial grasslands, deserts & scrublands characterized by low-growing vegetation	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.
Canada goose <i>Branta canadensis</i>	MSCP	Salt marsh, fresh water marsh, grassland, agricultural fields	
ferruginous hawk <i>Buteo regalis</i>	CSC MSCP	Open grasslands, sagebrush flats, desert scrub, low foothills & fringes of Pinyon-juniper habitats	Eats mostly lagomorphs, ground squirrels, and mice. Population trends may follow Lagomorph population cycles.
Swainson's hawk <i>Buteo swainsoni</i>	CT MSCP	Agricultural fields, grassland	
coastal cactus wren <i>Campylorhynchus brunneicapillus sandiegensis</i>	CSC MSCP MHCP	Southern California Coastal Sage Scrub.	Wrens require tall Opuntia cactus for nesting and roosting.
western snowy plover <i>Charadrius alexandrinus nivosus</i>	FT, CSC MSCP MHCP	Sandy beaches, salt pond levees & shores of large alkali lakes	Needs sandy, gravelly or friable soils for nesting
mountain plover <i>Charadrius montanus</i>	FP, CSC MSCP	Agricultural Fields, Grassland	

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northern harrier <i>Circus cyaneus</i>	CSC MSCP	Coastal salt & fresh-water marsh. Nest & forage in grasslands, from salt grass in desert sink to mountain cienagas	Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas
western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	FP, CE	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.
yellow warbler <i>Dendroica petechia brewsteri</i>	CSC	Riparian plant associations. Prefers willows, cottonwoods, aspens, sycamores, & alders for nesting & foraging.	Also nests in montane shrubbery in open conifer forests.
Reddish egret <i>Egretta rufescens</i>	FSC MSCP	Salt marsh	
white-tailed kite <i>Elanus leucurus</i>		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.
southwestern willow flycatcher <i>Empidonax traillii extimus</i>	FE, CE MSCP MHCP	Riparian woodlands in southern California	
California horned lark <i>Eremophila alpestris actia</i>	CSC	Coastal regions, chiefly from Sonoma Co. to San Diego Co. also main part of San Joaquin Valley & east to foothills	Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.
prairie falcon <i>Falco mexicanus</i>	CSC	Inhabits dry, open terrain, either level or hilly	Breeding sites located on cliffs. forages far afield, even to marshlands and ocean shores.
American peregrine falcon <i>Falco peregrinus anatum</i>	CE, CFP MSCP MHCP	Coastal wetland areas, extensive riparian areas, and lakes	
bald eagle <i>Haliaeetus leucocephalus</i>	MSCP	Open water	
yellow-breasted chat <i>Icteria virens</i>	CSC MHCP	Summer resident; inhabits riparian thickets of willow & other brushy tangles near watercourses.	Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground.
least bittern <i>Ixobrychus exilis</i>	CSC	Colonial nester in marshlands and borders of ponds and reservoirs which provide ample cover.	Nests usually placed low in tules, over water.

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loggerhead shrike <i>Lanius ludovicianus</i>	CSC	Broken woodlands, savannah, Pinyon-juniper, Joshua tree, & riparian woodlands, desert oases, scrub & washes.	Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.
California black rail <i>Laterallus jamaicensis coturniculus</i>	CT	Inhabits Freshwater Marshes, Wet Meadows & Shallow Margins Of Saltwater Marshes Bordering Larger Bays	Needs Water Depths Of About 1 Inch That Does Not Fluctuate During the Year & Dense Vegetation For Nesting Habitat.
Long-billed curlew <i>Numenius americanus</i>	FSC, CSC MSCP	tidal mudflats, coastal strand, salt marshes, fallow agricultural fields, and grasslands along the coast	uncommon migrant and winter visitor to San Diego County
Osprey <i>Pandion haliaetus</i>	CSC MHCP	Ocean Shore, Bays, Fresh-Water Lakes, and Larger Streams.	Large Nests Built in Tree-Tops Within 15 Miles Of A Good Fish-Producing Body Of Water.
Belding's savannah sparrow <i>Passerculus sandwichensis beldingi</i>	CE MSCP MHCP	Inhabits Coastal Salt Marshes, from Santa Barbara South Through San Diego County.	Nests in Salicornia on and About Margins Of Tidal Flats.
Large-billed savannah sparrow <i>Passerculus sandwichensis rostratus</i>	FSC, CSC MSCP MHCP	coastal marshes and beaches, salt marsh, mudflat, and low coastal strand vegetation	Agua Hedionda, Batiquitos, and San Elijo lagoons are considered critical wintering locations
California brown pelican <i>Pelecanus occidentalis californicus</i>	FE, CE, CFP MSCP MHCP	open ocean, coastal strand, harbors, bays, and estuaries	
white-faced ibis <i>Plegadis chihi</i>	CSC MSCP MHCP	Shallow Fresh-Water Marsh.	Dense Tule Thickets For Nesting Interspersed with Areas Of Shallow Water For Foraging.
coastal California gnatcatcher <i>Poliptila californica californica</i>	FT, CSC MSCP MHCP	Obligate, Permanent Resident Of Coastal Sage Scrub Below 2500 Ft in Southern California.	Low, Coastal Sage Scrub in Arid Washes, on Mesas & Slopes. Not All Areas Classified As Coastal Sage Scrub are Occupied.
light-footed clapper rail <i>Rallus longirostris levipes</i>	FE, CE, CFP MSCP MHCP	Found in Salt Marshes Traversed By Tidal Sloughs, Where Cordgrass and Pickleweed are the Dominant Vegetation.	Requires Dense Growth Of Either Pickleweed or Cordgrass For Nesting or Escape Cover; Feeds on Molluscs and Crustaceans
bank swallow <i>Riparia riparia</i>	CT	Colonial Nester; Nests Primarily in Riparian and Other Lowland Habitats West Of the Desert.	Requires Vertical Banks/Cliffs with Fine-Textured/Sandy Soils Near Streams, Rivers, Lakes, Ocean to Dig Nesting Hole.
western bluebird <i>Sialia mexicana</i>	MSCP MHCP	Oak woodland (sparse phase), grassland	

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California least tern <i>Sternula antillarum browni</i>	FE, CE, CFP MSCP MHCP	Nests Along the Coast from San Francisco Bay South to Northern Baja California.	Colonial Breeder on Bare or Sparsely Vegetated, Flat Substrates: Sand Beaches, Alkali Flats, Land Fills, or Paved Areas.
elegant tern <i>Sterna elegans</i>	FSC, CSC MSCP MHCP	estuarine and intertidal zones of beaches and mudflats for foraging, and beaches, mudflats, and lagoon shoreline for roosting habitat.	
least Bell's vireo <i>Vireo bellii pusillus</i>	FE, CE MSCP MHCP	Summer Resident Of Southern California in Low Riparian in Vicinity Of Water or in Dry River Bottoms; Below 2000 Ft.	Nests Placed Along Margins Of Bushes or on Twigs Projecting into Pathways, Usually Willow, Baccharis, Mesquite.
Mammals (Nomenclature from Jones et al. 1982)			
pallid bat <i>Antrozous pallidus</i>	CSC	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.
Dulzura pocket mouse <i>Chaetodipus californicus femoralis</i>	CSC	Variety Of Habitats Including Coastal Scrub, Chaparral & Grassland in San Diego Co.	Attracted to Grass-Chaparral Edges.
northwestern San Diego pocket mouse <i>Chaetodipus fallax fallax</i>	CSC MHCP	Coastal Scrub, Chaparral, Grasslands, Sagebrush, Etc. in Western San Diego Co.	Sandy, Herbaceous Areas, Usually in Association with Rocks or Coarse Gravel.
pallid San Diego pocket mouse <i>Chaetodipus fallax pallidus</i>	CSC	Desert Border Areas in Eastern San Diego Co. in Desert Wash, Desert Scrub, Desert Succulent Scrub, Pinyon-Juniper, Etc.	Sandy Herbaceous Areas, Usually in Association with Rocks or Coarse Gravel.
Mexican long-tongued bat <i>Choeronycteris mexicana</i>	CSC	Occasionally Found in San Diego Co., Which Is on the Periphery Of their Range.	Feeds on Nectar & Pollen Of Night-Blooming Succulents. Roosts in Relatively Well-Lit Caves, & in & Around Buildings.
Townsend's big-eared bat <i>Corynorhinus townsendii</i>	CSC	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.
Stephens' kangaroo rat <i>Dipodomys stephensi</i>	FE, CT MHCP	Primarily Annual & Perennial Grasslands, but Also Occurs in Coastal Scrub & Sagebrush with Sparse Canopy Cover.	Prefers Buckwheat, Chamise, Brome Grass & Filaree. will Burrow into Firm Soil.

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spotted bat <i>Euderma maculatum</i>	CSC	Associated with Prominent Rock Features; Extreme, Low Desert Habitats to High Elevation Forests.	Spotted Bats Prefer to Roost on Rock-Faced Cliffs and are Thought to Have Non-Colonial Specific Roost
western mastiff bat <i>Eumops perotis californicus</i>	CSC	Many Open, Semi-Arid to Arid Habitats, Including Conifer & Deciduous Woodlands, Coastal Scrub, Grasslands, Chaparral Etc	Roosts in Crevices in Cliff Faces, High Buildings, Trees & Tunnels.
silver-haired bat <i>Lasionycteris noctivagans</i>	CSC	Primarily A Coastal & Montane Forest Dweller Feeding Over Streams, Ponds & Open Brushy Areas.	Roosts in Hollow Trees, Beneath Exfoliating Bark, Abandoned Woodpecker Holes & Rarely Under Rocks. Needs Drinking Water.
western red bat <i>Lasiurus blossevillii</i>		Roosts Primarily in Trees, 2-40 Ft Above Ground, from Sea Level Up Through Mixed Conifer Forests.	Prefers Habitat Edges & Mosaics with Trees That are Protected from Above & Open Below with Open Areas For Foraging.
hoary bat <i>Lasiurus cinereus</i>	CSC	Prefers Open Habitats or Habitat Mosaics, with Access to Trees For Cover & Open Areas or Habitat Edges For Feeding.	Roosts in Dense Foliage Of Medium to Large Trees. Feeds Primarily on Moths. Requires Water.
Western yellow bat <i>Lasiurus xanthinus</i>		Found in Valley Foothill Riparian, Desert Riparian, Desert Wash, and Palm Oasis Habitats.	Roosts in Trees, Particularly Palms. Forages Over Water and Among Trees.
San Diego black-tailed jackrabbit <i>Lepus californicus bennettii</i>	CSC MHCP	Intermediate Canopy Stages Of Shrub Habitats & Open Shrub / Herbaceous & Tree / Herbaceous Edges.	Coastal Sage Scrub Habitats in Southern California.
California leaf-nosed bat <i>Macrotus californicus</i>	CSC	Desert Riparian, Desert Wash, Desert Scrub, Desert Succulent Scrub, Alkali Scrub and Palm Oasis Habitats.	Needs Rocky, Rugged Terrain with Mines or Caves For Roosting.
western small-footed myotis <i>Myotis ciliolabrum</i>		Desert Scrub, Semi-Arid Regions, and Rocky Canyons. It Roosts Under Tree Bark or Bridges and in Buildings	
fringed myotis <i>Myotis thysanodes</i>		Desert Scrub, Semi-Arid Regions, and Rocky Canyons. It Roosts Under Tree Bark or Bridges and in Buildings	

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long-legged myotis <i>Myotis volans</i>		Most Common in Woodland & Forest Habitats Above 4000 Ft. Trees are Important Day Roosts; Caves & Mines are Night Roosts.	Nursery Colonies Usually Under Bark or in Hollow Trees, but Occasionally in Crevices or Buildings.
Yuma myotis <i>Myotis yumanensis</i>		Desert scrub, semi-arid regions, and rocky canyons. It roosts under tree bark or bridges and in buildings	
Colorado Valley woodrat <i>Neotoma albigula venusta</i>		Brushland and rocky cliffs with shallow caves.	
San Diego desert woodrat <i>Neotoma lepida intermedia</i>	CSC	Coastal Scrub Of Southern California from San Diego County to San Luis Obispo County.	Moderate to Dense Canopies Preferred. They are Particularly Abundant in Rock Outcrops & Rocky Cliffs & Slopes.
pocketed free-tailed bat <i>Nyctinomops femorosaccus</i>	CSC	Variety Of Arid Areas in So. Cal.-- Pine-Juniper Woodlands, Desert Scrub, Palm Oasis, Desert Wash, Desert Riparian, Etc.	Rocky Areas with High Cliffs.
big free -tailed bat <i>Nyctinomops macrotis</i>	CSC	Rugged, rocky habitats in arid landscapes; found in desert scrub, woodlands, and evergreen forests.	
southern mule deer <i>Odocoileus hemionus</i>	MSCP MHCP	Coastal sage scrub, chaparral, riparian woodland, oak woodland	
southern grasshopper mouse <i>Onychomys torridus ramona</i>	CSC	Desert Areas, Especially Scrub Habitats with Friable Soils For Digging. Prefers Low to Moderate Shrub Cover.	Feeds Almost Exclusively on Arthropods, Especially Scorpions & Orthopteran Insects.
peninsular bighorn sheep <i>Ovis canadensis nelsoni dps</i>	FE, CT	Open Desert Slopes Below 4,000 Ft Elevation from San Gorgonio Pass South into Mexico.	Optimal Habitat Includes Steep Walled Canyons and Ridges Bisected By Rocky or Sandy Washes, with Available Water.
Los Angeles pocket mouse <i>Perognathus longimembris brevinasus</i>	CSC	Lower Elevation Grasslands & Coastal Sage Communities in the Los Angeles Basin.	Open Ground with Fine Sandy Soils. May Not Dig Extensive Burrows, Hiding Under Weeds & Dead Leaves Instead.
Jacumba pocket mouse <i>Perognathus longimembris internationalis</i>	CSC	Desert Riparian, Desert Scrub, Desert Wash, Coastal Scrub & Sagebrush.	Rarely Found on Rocky Sites, Uses All Canopy Coverages.
Pacific pocket mouse <i>Perognathus longimembris pacificus</i>	FE, CSC MHCP (NE)	Inhabits the Narrow Coastal Plains from the Mexican Border North to El Segundo, Los Angeles Co.	Seems to Prefer Soils Of Fine Alluvial Sands Near the Ocean, but much Remains to Be Learned.

Species	Status*	Habitat	Occurrence/Comments
double-crested cormorant <i>Phalacrocorax auritus</i>	CSC	Colonial Nester on Coastal Cliffs, Offshore Islands, & Along Lake Margins in the Interior Of the State.	Nests Along Coast on Sequestered Islets, Usually on Ground with Sloping Surface, or in Tall Trees Along Lake Margins.
mountain lion <i>Puma concolor</i>	CDFG Protected, no take MSCP MHCP	Forest and Shrubland Habitats Throughout California Where Deer, their Primary Prey, are Found.	The Mountain Lion Has the Largest Geographical Distribution Of Any Mammal Species in the Western Hemisphere, but It Is Restricted Primarily to Unpopulated Regions in Western North America
American badger <i>Taxidea taxus</i>	CSC MSCP	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.

*NCCP coverage is based on aggregate MSCP and MHCP data, respectively. Consult local subarea plans if coverage and narrow endemic statuses for a specific portion of an MSCP or MHCP area are needed.

STATUS CODES

Listed/Proposed

- FE = Listed as endangered by the federal government
- FT = Listed as threatened by the federal government
- FP = Federally proposed threatened
- CE = Listed as endangered by the state of California
- CT = Listed as threatened by the state of California
- CP = Proposed threatened by the state of California

Other

- CFP = California fully protected species
- CSC = California Department of Fish and Game species of special concern
- FSC = United States Fish and Wildlife Service species of special concern
- MSCP = Multiple Species Conservation Program covered species
- MHCP = Multiple Habitat Conservation Program covered species
- (NE) = MSCP or MHCP narrow endemic species

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**APPENDIX D
TABLE D-2
SENSITIVE PLANT SPECIES**

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Abronia villosa</i> var. <i>aurita</i> chaparral sand-verbena	--/--	1B.1		<u>Habitat:</u> Chaparral, coastal scrub, desert dunes <u>Comments:</u> Elevation range: 80-1600m.
<i>Acanthomintha ilicifolia</i> San Diego thorn-mint	CE/FT	1B.1	MSCP: NE MHCP: NE	<u>Habitat:</u> Chaparral, coastal sage scrub, valley and foothill grassland, vernal pools <u>Comments:</u> Found in clay soils
<i>Adolphia californica</i> California adolphia	--/--	2.1		<u>Habitat:</u> Coastal sage scrub, chaparral, valley and foothill grassland <u>Comments:</u> Found in sandy/gravelly to clay soils
<i>Agave shawii</i> Shaw's agave	--/--	2.1	MSCP: NE	<u>Habitat:</u> Coastal scrub, maritime succulent scrub, coastal bluff scrub. <u>Comments:</u> Has also been found adjacent to Torrey Pine forest
<i>Ambrosia chenopodiifolia</i> San Diego bur-sage	--/--	2.1		<u>Habitat:</u> Coastal sage scrub, maritime succulent scrub <u>Comments:</u> Found on slopes of canyons in open succulent scrub, usually with little herbaceous cover. Elevation range: 55-150m.
<i>Ambrosia monogyra</i> singlewhorl burrobrush	--/--	2.2		<u>Habitat:</u> Coastal scrub, maritime succulent scrub, chaparral, Sonoran desert scrub <u>Comments:</u> Elevation range: 10-500m.
<i>Ambrosia pumila</i> San Diego ambrosia	--/FE	1B.1	MSCP: NE MHCP: NE	<u>Habitat:</u> Coastal sage scrub, valley and foothill grassland <u>Comments:</u> Found in sandy loam of clay soil. In valleys; persists where disturbance has been superficial. Elevation range: 20-415m.
<i>Aphanisma blitoides</i> aphanisma	--/--	1B.2	MSCP: Covered	<u>Habitat:</u> Coastal scrub, coastal bluff scrub, alkaline areas, coastal dunes <u>Comments:</u> Found on bluffs and slopes near the ocean in sandy or clay soils. In steep decline on the islands and the mainland. Elevation range: 1-305 m.
<i>Arabis hirshbergiae</i> Hirshberg's rock cress	--/--	1B.2		<u>Habitat:</u> Pebble (or pavement) plains. <u>Comments:</u> Known occurrence at elevation of 1400m.
<i>Arctostaphylos glandulosa</i> ssp. <i>Crassifolia</i> Del Mar manzanita	--/FE	1B.1	MSCP: Covered MHCP: NE	<u>Habitat:</u> Coastal chaparral, closed-coned coniferous forest. <u>Comments:</u> Found on sandy coastal mesas and ocean bluffs; in chaparral or torrey pine forest. Elevation range: 0-365m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Arctostaphylos otayensis</i> Otay manzanita	--/--	1B.2	MSCP: Covered	<u>Habitat:</u> Chaparral, cismontane woodland <u>Comments:</u> Found in metavolcanic soils with other chaparral associates. Elevation range: 275-1700m.
<i>Arctostaphylos peninsularis</i> ssp. <i>Peninsularis</i> Peninsular manzanita	--/--	2.3		<u>Habitat:</u> Chaparral <u>Comments:</u> Elevation range: 1240-1520m.
<i>Arctostaphylos rainbowensis</i> Rainbow manzanita	--/--	1B.1		<u>Habitat:</u> Chaparral <u>Comments:</u> Previously called <i>A. peninsularis</i> or considered a hybrid between <i>A. glandulosa</i> & <i>A. glauca</i> . Usually found in gabbro chaparral in Riverside and San Diego counties. Elevation range: 270-790m.
<i>Astragalus deanei</i> Dean's milk-vetch	--/--	1B.1		<u>Habitat:</u> Chaparral, coastal scrub, riparian forest <u>Comments:</u> Found on open, brushy south-facing slopes in Diegan coastal sage, sometimes on recently burned-over hillsides. Elevation range: 75-670m.
<i>Astragalus douglasii</i> var. <i>perstrictus</i> Jacumba milk-vetch	--/--	1B.2		<u>Habitat:</u> Chaparral, cismontane woodland, valley and foothill grassland <u>Comments:</u> Found on stony hillsides and gravelly or sandy flats in open oak woodland. Elevation range: 900-1370m.
<i>Astragalus insularis</i> var. <i>harwoodii</i> Harwood's milk-vetch	--/--	2.2		<u>Habitat:</u> Desert dunes, creosote bush scrub <u>Comments:</u> Found in open sandy flats or stony desert washes; mostly in creosote bush scrub. Elevation range: (-50)-500m.
<i>Astragalus magdalenae</i> var. <i>peirsonii</i> Peirson's milk-vetch	CE/FT	1B.2		<u>Habitat:</u> Desert dunes <u>Comments:</u> Found on slopes and hollows in mobile dunes, usually to the lee of the prevailing winds. Elevation range: (-55)-250m.
<i>Astragalus oocarpus</i> San Diego milk-vetch	--/--	1B.2		<u>Habitat:</u> Chaparral, cismontane woodland, meadows <u>Comments:</u> Found in openings in chaparral or on gravelly flats and slopes in thin oak woodland. Elevation range: 305-1500m.
<i>Astragalus pachypus</i> var. <i>jaegeri</i> Jaeger's milk-vetch	--/--	1B.1		<u>Habitat:</u> Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland <u>Comments:</u> Found on dry ridges, in valleys and on open sandy slopes; often in grassland and oak-chaparral. Elevation range: 365-915m.
<i>Astragalus tener</i> var. <i>titi</i> coastal dunes milk-vetch	CE/FE	1B.1	MSCP: Covered	<u>Habitat:</u> Coastal bluff scrub, coastal dunes <u>Comments:</u> Found in moist, sandy depressions of bluffs or dunes along and near the Pacific Ocean; one recorded occurrence on a clay terrace. Elevation range: 1-50m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Atriplex coulteri</i> Coulter's saltbush	--/--	1B.2		<u>Habitat:</u> Coastal bluff scrub, coastal dunes, coastal scrub, valley and foothill grassland <u>Comments:</u> Found on ocean bluffs and ridgetops, as well as alkaline low places. Elevation range: 10-440m.
<i>Atriplex pacifica</i> South Coast saltscale	--/--	1B.2		<u>Habitat:</u> Coastal scrub, Diegan sage scrub, coastal bluff scrub, chenopod <u>Comments:</u> Found in alkaline soils. Elevation range: 1-500m.
<i>Atriplex parishii</i> Parish's brittlescale	--/--	1B.1		<u>Habitat:</u> Alkali meadows, vernal pools, chenopod scrub, playas <u>Comments:</u> Usually found on drying alkali flats with fine soils. Elevation range: 4-140m.
<i>Atriplex serenana</i> var. <i> davidsonii</i> Davidson's saltscale	--/--	1B.2		<u>Habitat:</u> Coastal scrub, coastal bluff scrub <u>Comments:</u> Found in alkaline soils. Elevation range: 3-250m.
<i>Ayenia compacta</i> ayenia	--/--	2.3		<u>Habitat:</u> Mojavean desert scrub, Sonoran desert scrub <u>Comments:</u> Found in sandy and gravelly washes in the desert; also found in dry desert canyons. Elevation range: 150-1095m.
<i>Baccharis vanessae</i> Encinitas baccharis	CE/FT	1B.1	MSCP: NE MHCP: NE	<u>Habitat:</u> Chaparral <u>Comments:</u> Found on sanstone soils in steep, open, rocky areas with chaparral associates. Elevation range: 60-720m.
<i>Berberis fremontii</i> Fremont barberry	--/--	3		<u>Habitat:</u> Chaparral, pinyon-juniper woodland, Joshua tree woodland <u>Comments:</u> Found on dry, rocky points and slopes. Elevation range: 840-1850m.
<i>Berberis nevinii</i> Nevin's barberry	CE/FE	1B.1	MSCP: NE	<u>Habitat:</u> Chaparral, cismontane woodland, coastal scrub, riparian scrub <u>Comments:</u> Found on steep, north-facing slopes or in low grade sandy washes. Elevation range: 290-1575m.
<i>Bergerocactus emoryi</i> golden-spined cereus	--/--	2.2		<u>Habitat:</u> Coastal scrub, sometimes chaparral margins <u>Comments:</u> Limited to the coastal belt. Ususally found in clay soils. Elevation range: 3-395m.
<i>Brodiaea filifolia</i> thread-leaved brodiaea	CE/FT	1B.1	MSCP: NE MHCP: NE	<u>Habitat:</u> Cismontane woodland, coastal scrub, playas, valley and foothill grassland, vernal pools <u>Comments:</u> Usually associated with annual grassland and vernal pools; often surrounded by shrubland habitats. Found in clasy soils. Elevation range: 25-860m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Brodiaea orcuttii</i> Orcutt's brodiaea	--/--	1B.1	MSCP: Covered	<u>Habitat:</u> Closed-cone coniferous forest, meadows, cismontane wood-land, chaparral, valley and foothill grass-land, vernal pools <u>Comments:</u> Found in mesic, clay soils; sometimes serpentine; usually in vernal pools and small drainages. Elevation range: 30-165m.
<i>Bursera microphylla</i> elephant tree	--/--	2.3		<u>Habitat:</u> Sonoran desert scrub <u>Comments:</u> Found on hillsides, in washes, and on canyon sides in California; rocky sites. Elevation range: 200-700m.
<i>Calamagrostis densa</i> dense reed grass	--/--		MSCP: Covered	<u>Habitat:</u> Chaparral, oak woodland <u>Comments:</u> <i>Calamagrostis d.</i> is now considered to be a synonym of <i>Calamagrostis koelerioides</i> , both in Jepson and by CNPS, and is also no longer considered sensitive.
<i>California macrophyllum</i> round-leaved filaree	--/--	1B.1		<u>Habitat:</u> Cismontane woodland, valley and foothill grassland <u>Comments:</u> Found in clay soils. Elevation range: 15-1200m.
<i>Calliandra eriophylla</i> fairyduster	--/--	2.3		<u>Habitat:</u> Sonoran desert scrub <u>Comments:</u> Found in sandy or rocky sites in the desert. Elevation range: 120-1500m.
<i>Calochortus dunnii</i> Dunn's mariposa lily	CR/--	1B.2	MSCP: NE	<u>Habitat:</u> Closed-cone coniferous forest, chaparral <u>Comments:</u> Found in gabbro or metavolcanic soils; also known from sandstone; often associated with chaparral. Elevation range: 375;1830m.
<i>Carlowrightia arizonica</i> Arizona carlowrightia	--/--	2.2		<u>Habitat:</u> Sonoran desert scrub <u>Comments:</u> Found in sandy, granitic alluvium, associated with palm oasis in California. Elevation range: 285-350m.
<i>Caulanthus heterophyllus</i> slender-pod jewelflower	CR/--	4.3	MSCP: Covered	<u>Habitat:</u> Burned chaparral <u>Comments:</u> Fire-following plant
<i>Ceanothus cyaneus</i> Lakeside ceanothus	--/--	1B.2	MSCP: NE	<u>Habitat:</u> Closed-cone coniferous forest, chaparral <u>Comments:</u> Elevation range: 100-1515m.
<i>Ceanothus otayensis</i> Otay Mountain ceanothus	--/--	1B.2		<u>Habitat:</u> Chaparral <u>Comments:</u> Found in metavolcanic or gabbroic soils. Elevation range: 600-1100 m.
<i>Ceanothus verrucosus</i> wart-stemmed ceanothus	--/--	2.2	MSCP: Covered MHCP: Covered	<u>Habitat:</u> Chaparral <u>Comments:</u> Elevation range: 1-380m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Centromadia parryi</i> ssp. <i>Australis</i> southern tarplant	--/--	1B.1		<u>Habitat:</u> Marshes and swamps (margins), vernal pools, valley and foothill grasslands, alkaline locales, salt marshes <u>Comments:</u>
<i>Centromadia pungens</i> ssp. <i>laevis</i> smooth tarplant	--/--	1B.1		<u>Habitat:</u> Valley and foothill grassland, chenopod scrub, meadows, playas, riparian woodland <u>Comments:</u> Found in alkali meadow, alkali scrub, also in disturbed places. Elevation range: 0-480m.
<i>Chaenactis carphoclinia</i> var. <i>peirsonii</i> Peirson's pincushion	--/--	1B.3		<u>Habitat:</u> Sonoran desert scrub <u>Comments:</u> Found on open rocky or sandy sites. Elevation range: 3-80m.
<i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i> Orcutt's pincushion	--/--	1B.1		<u>Habitat:</u> Coastal bluff scrub, coastal dunes <u>Comments:</u> Found on sandy sites. Elevation range: 3-100m.
<i>Chaenactis parishii</i> Parish's chaenactis	--/--	1B.3		<u>Habitat:</u> Chaparral <u>Comments:</u> Found on rocky sites. Elevation range: 1300-2500m.
<i>Chamaesyce arizonica</i> Arizona spurge	--/--	2.3		<u>Habitat:</u> Sonoran desert scrub <u>Comments:</u> Found in sandy soils. Elevation range: 50-300m.
<i>Chamaesyce platysperma</i> flat-seeded spurge	--/--	1B.2		<u>Habitat:</u> Sonoran desert scrub, desert dunes <u>Comments:</u> Found in sandy places or shifting dunes. Possibly a waif in California; more common in Arizona and Mexico. Elevation range: 60-950m.
<i>Chorizanthe orcuttiana</i> Orcutt's spineflower	CE/FE	1B.1	MHCP: NE	<u>Habitat:</u> Coastal scrub, chaparral, closed-cone coniferous forest <u>Comments:</u> Found from Del Mar to Point Loma, in San Diego County. Found in sandy sites and openings; sometimes in transition zones. Elevation range: 3-125m.
<i>Chorizanthe polygonoides</i> var. <i>longispina</i> long-spined spineflower	--/--	1B.2		<u>Habitat:</u> Chaparral, coastal scrub, meadows, valley and foothill grassland <u>Comments:</u> Found in gabbroic clay. Elevation range: 30-1450m.
<i>Clarkia delicate</i> delicate clarkia	--/--	1B.2		<u>Habitat:</u> Cismontane woodland, chaparral <u>Comments:</u> Elevation range: 235-1000m.
<i>Colubrina californica</i> Las Animas colubrina	--/--	2.3		<u>Habitat:</u> Mojavean desert scrub <u>Comments:</u> Found on narrow, steep, rocky ravines or washes. Elevation range: 10-1000m.
<i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i> summer holly	--/--	1B.2	MHCP: Covered	<u>Habitat:</u> Chaparral <u>Comments:</u> Often found in mixed chaparral in California, sometimes post-burn. Elevation range: 30-550m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Cordylanthus maritimus</i> ssp. <i>maritimus</i> salt marsh bird's-beak	CE/FE	1B.2	MSCP: Covered	<u>Habitat</u> : Coastal salt marsh, coastal dunes <u>Comments</u> : Limited to the higher zones of the salt marsh habitat. Elevation range: 0-30m.
<i>Cordylanthus orcuttianus</i> Orcutt's bird's-beak	--/--	2.1	MSCP: Covered	<u>Habitat</u> : Coastal scrub <u>Comments</u> : Found in coastal scrub associations on slopes; also reported from intermittently moist swales, and in washes. Elevation range: 100-200m.
<i>Coreopsis maritima</i> sea dahlia	--/--	2.2		<u>Habitat</u> : Coastal scrub, coastal bluff scrub <u>Comments</u> : Occurs on a variety of soil types, including sandstone. Elevation range: 5-150m.
<i>Corethrogyne filaginifolia</i> var. <i>incana</i> San Diego sand aster	--/--	1B.1		<u>Habitat</u> : Coastal scrub, coastal bluff scrub, chaparral <u>Comments</u> : Most documented occurrences are in disturbed areas, so hard to predict suitable habitat; possibly found in disturbed sites and ecotones. Elevation range: 3-115m.
<i>Corethrogyne filaginifolia</i> var. <i>linifolia</i> Del Mar Mesa sand aster	--/--	1B.1	MSCP: Covered MHCP: NE	<u>Habitat</u> : Chaparral, coastal scrub <u>Comments</u> : Found in coastal, shrubby communities on maritime sediments and conglomerates. Elevation range: 30-150m.
<i>Cryptantha ganderi</i> Gander's cryptantha	--/--	1B.1		<u>Habitat</u> : Sonoran desert scrub, desert dunes <u>Comments</u> : Found on dunes and in washes. Elevation range: 170-400m.
<i>Cupressus forbesii</i> Tecate cypress	--/--	1B.1	MSCP: Covered	<u>Habitat</u> : Closed-cone coniferous forest, chaparral <u>Comments</u> : Primarily on north-facing slopes; groves often associated with chaparral. Elevation range: 250-1500m.
<i>Cupressus stephensonii</i> Cuyamaca cypress	--/--	1B.1		<u>Habitat</u> : Closed-cone coniferous forest, chaparral, riparian forest <u>Comments</u> : Restricted to the southwest slopes of Cuyamaca Peak, on gabbroic rock. Elevation range: 1030-1420m.
<i>Deinandra conjugens</i> Otay tarplant	CE/FT	1B.1	MSCP: NE	<u>Habitat</u> : Coastal scrub, valley and foothill grassland <u>Comments</u> : Found on coastal plains, mesas, and river bottoms; often in open, disturbed areas; clay soils. Elevation range: 25-300m.
<i>Deinandra floribunda</i> Tecate tarplant	--/--	1B.2		<u>Habitat</u> : Chaparral, coastal scrub <u>Comments</u> : Often in little drainages or disturbed areas. Elevation range: 70-1220m.
<i>Deinandra mohavensis</i> Mojave tarplant	CE/--	1B.3		<u>Habitat</u> : Riparian scrub, chaparral <u>Comments</u> : Found in low sand bars in river beds; mostly in riparian areas or ephemeral grassy areas. Elevation range: 850-1600m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Delphinium hesperium</i> ssp. <i>cuyamaca</i> Cuyamaca larkspur	CR/--	1B.2		<u>Habitat:</u> Lower montane coniferous forest, meadows <u>Comments:</u> Found on dried edge of grassy meadows, also described as in mesic sites. Elevation range: 1210-1630m.
<i>Dieteria asteroides</i> var. <i>lagunensis</i> Mount Laguna aster	CR/--	2.1		<u>Habitat:</u> Cismontane woodland, lower montane coniferous forest <u>Comments:</u> Found in openings in woodland or forest. Elevation range: 800-2400m.
<i>Downingia concolor</i> var. <i>brevior</i> Cuyamaca Lake downingia	CE/--	1B.1		<u>Habitat:</u> Meadows (mesic), vernal pools <u>Comments:</u> Found on shores of Cuyamaca Lake in San Diego County. Located in vernal seeps, lakes, and pools, and on mudflats, with <i>Orthocarpus</i> , <i>Limnanthes</i> , and <i>Collinsia</i> . Elevation range: 1400-1500m.
<i>Dudleya attenuata</i> ssp. <i>orcuttii</i> Orcutt's dudleya	--/--	2.1		<u>Habitat:</u> Coastal scrub, coastal bluff scrub, chaparral <u>Comments:</u> Found on rocky mesas, canyons, and ridges. Elevation range: 3-50m.
<i>Dudleya blochmaniae</i> ssp. <i>blochmaniae</i> Blochman's dudleya	--/--	1B.1	MHCP: NE	<u>Habitat:</u> Coastal scrub, coastal bluff scrub, valley and foothill grassland <u>Comments:</u> Found on open, rocky slopes; often in shallow clays over serpentine or in rocky areas with little soil. Elevation range: 5-450m.
<i>Dudleya brevifolia</i> short-leaved dudleya	CE/--	1B.1	MSCP: NE MHCP: NE	<u>Habitat:</u> Chaparral, coastal scrub <u>Comments:</u> Found on Torrey sandstone soils; in pebbly openings. Elevation range: 30-250m.
<i>Dudleya multicaulis</i> many-stemmed dudleya	--/--	1B.2		<u>Habitat:</u> Chaparral, coastal scrub, valley and foothill grassland <u>Comments:</u> Found in heavy, often clayey soils or grassy slopes. Elevation range: 0-790m.
<i>Dudleya variegata</i> variegated dudleya	--/--	1B.2	MSCP: NE	<u>Habitat:</u> Chaparral, coastal scrub, cismontane woodland, valley and foothill grassland, vernal pools <u>Comments:</u> Found in rocky or clay soils; sometimes associated with vernal pool margins. Elevation range: 3-550m.
<i>Dudleya viscida</i> sticky dudleya	--/--	1B.2	MSCP: Covered MHCP: Covered	<u>Habitat:</u> Coastal scrub, coastal bluff scrub, chaparral <u>Comments:</u> Found on north and south-facing cliffs and banks. Elevation range: 10-550m.
<i>Ericameria cuneata</i> var. <i>macrocephala</i> Laguna Mountains goldenbush	--/--	1B.3		<u>Habitat:</u> Chaparral <u>Comments:</u> Endemic to the Laguna Mountains. Found among boulders; in crevices in granitic outcrops and in rocky soil. Elevation range: 1185-1850m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Ericameria palmeri</i> ssp. <i>palmeri</i> Palmer's goldenbush	--/--	2.2	MSCP: NE	<u>Habitat</u> : Coastal scrub, chaparral <u>Comments</u> : Found on granitic soils, on steep hillsides. Elevation range: 100-600m.
<i>Eriogonum foliosum</i> leafy buckwheat	--/--	1B.2		<u>Habitat</u> : Chaparral, lower montane coniferous forest, pinyon and juniper woodland <u>Comments</u> : Found on sandy sites. Elevation range: 970-2200m.
<i>Eryngium aristulatum</i> var. <i>parishii</i> San Diego button-celery	CE/FE	1B.1	MSCP: Covered MHCP: NE	<u>Habitat</u> : Vernal pools, coastal scrub, valley and foothill grassland <u>Comments</u> : Found on San Diego mesa hardpan and claypan vernal pools, and in southern interior basalt flow vernal pools; usually surrounded by scrub. Elevation range: 15-620m.
<i>Eryngium pendletonense</i> Pendleton button-celery	--/--	1B.1		<u>Habitat</u> : Coastal scrub, valley and foothill grassland, vernal pools <u>Comments</u> : Located in vernal mesic sites. Elevation range: 15-110m.
<i>Erysimum ammophilum</i> coast wallflower	--/--	1B.2		<u>Habitat</u> : Coastal dunes, bluff scrub
<i>Eucnide rupestris</i> rock nettle	--/--	2.2		<u>Habitat</u> : Sonoran desert scrub <u>Comments</u> : Elevation range: 500-600m.
<i>Euphorbia misera</i> cliff spurge	--/--	2.2	MHCP: Covered	<u>Habitat</u> : Coastal scrub, coastal bluff scrub <u>Comments</u> : Found on rocky sites. Elevation range: 10-500m.
<i>Ferocactus viridescens</i> San Diego barrel cactus	--/--	2.1	MSCP: Covered MHCP: Covered	<u>Habitat</u> : Chaparral, Diegan coastal scrub, valley and foothill grassland <u>Comments</u> : Often on exposed, level, or south-sloping areas; often in coastal scrub near crest of slopes. Elevation range: 3-485m.
<i>Frankenia palmeri</i> Palmer's frankenia	--/--	2.1		<u>Habitat</u> : Coastal dunes, marshes (coastal salt), playas <u>Comments</u> : Elevation range: 0-10m.
<i>Fremontodendron mexicanum</i> Mexican flannelbush	CR/FE	1B.1		<u>Habitat</u> : Closed-cone coniferous forest, chaparral, cismontane woodland <u>Comments</u> : Usually scattered along the borders of creeks or in dry canyons; sometimes on gabbro soils. Elevation range: 10-490m.
<i>Galium angustifolium</i> ssp. <i>borregoense</i> Borrego bedstraw	CR/--	1B.3		<u>Habitat</u> : Sonoran desert scrub <u>Comments</u> : Found on steep walls and (usually north-facing) slopes in rocky watersheds or canyons. Elevation range: 350-1100m.
<i>Gasterosteus aculeatus williamsoni</i> unarmored threespine stickleback	CE/FE			Weedy Pools, Backwaters, and Among Emergent Vegetation At The Stream Edge In Small Southern California Streams. Cool (<24 C), Clear Water With Abundant Vegetation

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<i>Geothallus tuberosus</i> Campbell's liverwort	--/--	1b.1		Coastal Scrub, Vernal Pools. Most Suitable Habitat Lost To Urbanization Liverwort Known From Mesic Soil. 10-600m
<i>Geraea viscida</i> sticky geraea	--/--	2.3		Chaparral Loamy Coarse Sand To Gravelly Sand Soils; Often In Post Burned Areas and In Bulldozed Areas. 450-1700m
<i>Githopsis diffusa</i> ssp. <i>filicaulis</i> Mission Canyon bluecup	--/--	3.1		Chaparral Probably In Open, Grassy Places Within Chaparral; Much Overlooked. 450-700m.
<i>Grindelia hirsutula</i> var. <i>hallii</i> San Diego gumplant	--/--	1B.2		Meadows, Valley and Foothill Grassland, Chaparral, Lower Montane Coniferous Forest Frequently Occurs In Low Moist Areas In Meadows; Assoc Spp Commonly Incl <i>Wyethia</i> , <i>Ranunculus</i> , <i>Sidalcea</i> . 180-1660m
<i>Hazardia orcuttii</i> Orcutt's hazardia	CT/FC	1B.1	MHCP: NE	Chaparral, coastal scrub Often on clay; in grassy edges of chaparral and coastal scrub. 85m
<i>Herissantia crispa</i> curly herissantia	--/--	2.3		Sonoran Desert Scrub 700-725m.
<i>Heuchera brevistaminea</i> Laguna Mountains alumroot	--/--	1b.3		Broadleaved Upland Forest, Chaparral, Cismontane Woodland, Riparian Forest. Steep, Rocky Slopes. 1360-2000m.
<i>Heuchera rubescens</i> var. <i>versicolor</i> San Diego County alumroot	--/--	2.3		Chaparral, Lower Montane Coniferous Forest Rocky Outcrops. 1500-4000m.
<i>Horkelia cuneata</i> ssp. <i>puberula</i> mesa horkelia	--/--	1B.1		Chaparral, Cismontane Woodland, Coastal Scrub Sandy Or Gravelly Sites. 70-810m.
<i>Horkelia truncate</i> Ramona horkelia	--/--	1B.3		Chaparral, Cismontane Woodland Habitats In California Include: Mixed Chaparral, Vernal Streams, and Disturbed Areas Near Roads. Clay Soil. 400-1300m

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<i>Hulsea californica</i> San Diego sunflower	--/--	1B.3		Lower Montane Coniferous Forest, Upper Montane Coniferous Forest, Chaparral Coarse To Fine Sandy Loam In Disturbed Chaparral Openings At High Elevations. 1000-2915m
<i>Hulsea Mexicana</i> Mexican hulsea	--/--	2.3		Chaparral Volcanic Soils Or Burns and Disturbed Sites. 665-1200m
<i>Ipomopsis tenuifolia</i> slender-leaved ipomopsis	--/--	2.3		Chaparral, Pinyon and Juniper Woodland, Sonoran Desert Scrub Dry Rocky Or Gravelly Slopes. 100-1200m
<i>Isocoma menziesii</i> var. <i>decumbens</i> decumbent goldenbush	--/--	1B.2		Coastal sage scrub intermixed with grasslands Sandy Soils; Often In Disturbed Sites. 10-910m
<i>Iva hayesiana</i> San Diego marsh-elder	--/--	2.2	MHCP: Covered	Marshes and Swamps, Playas Riverwashes. 10-500m.
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i> Coulter's goldfields	--/--	1B.1		Tidal Marsh, Vernal Pools, Alkaline Marsh Usually Found On Alkaline Soils In Playas, Sinks, and Grasslands. 1-1400M.
<i>Lepechinia cardiophylla</i> heart-leaved pitcher sage	--/--	1B.2	MSCP: Covered	Closed-cone coniferous forest, chaparral, cismontane woodland 550-1370M
<i>Lepechinia ganderi</i> Gander's pitcher sage	--/--	1B.3	MSCP: NE	Closed-cone coniferous forest, chaparral, coastal sage scrub, valley and Foothill Grassland Usu. Found In Chap. Or Coastal Scrub; Sometimes In Tecate Cypress Wldnd. Gabbro Or Metavolcanic Substrate. 300-1000m
<i>Lepidium flavum</i> var. <i>felipense</i> Borrego Valley pepper-grass	--/--	1B.2		Sonoran Desert Scrub, Pinyon-Juniper Woodland Sandy, Clay, Or Silty Soils. 450-840m.
<i>Lepidium virginicum</i> var. <i>robinsonii</i> Robinson's pepper-grass	--/--	1B.2		Chaparral, Coastal Scrub Dry Soils, Shrubland. 1-945M.

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<i>Leptosiphon floribundus</i> ssp. <i>hallii</i> Santa Rosa Mountains leptosiphon	--/--	1B.3		Sonoran Desert Scrub Desert Canyons. 900-1275M
<i>Lessingia glandulifera</i> var. <i>tomentosa</i> Warner Springs lessingia	--/--	1B.3		Chaparral Sandy Soils; Warner Ranch; San Diego County Along Roadsides, Sandy Soil, In High Desert Chaparral. 860-1220M.
<i>Lewisia brachycalyx</i> short-sepaled lewisia	--/--	2.2		Lower Montane Coniferous Forest, Meadows Dry To Moist Meadows In Rich Loam. 1400-2300m.
<i>Lilium parryi</i> lemon lily	--/--	1B.2		Lower Montane Coniferous Forest, Meadows and Seeps, Riparian Forest, Upper Montane Coniferous Forest. Wet, Mountainous Terrain; Gen In Forested Areas; On Shady Edges Of Streams, In Open Boggy Meadows & Seeps. 1300-2790m.
<i>Limnanthes gracilis</i> ssp. <i>parishii</i> Parish's meadowfoam	CE/--	1B.2		Meadows and Seeps, Vernal Pools Vernally moist areas and temporary seeps of highland meadows and plateaus; often bordering lakes and streams. 600-1760m
<i>Linanthus bellus</i> desert beauty	--/--	2.3		Chaparral Dry slopes and flats; open sandy spots in chaparral, mostly in loamy coarse sandy DG soil types. 920-1400m
<i>Linanthus maculatus</i> Little San Bernardino Mtns. linanthus	--/--	1B.2		Desert Dunes, Sonoran Desert Scrub, Mojavean Desert Scrub, Joshua Tree Woodland Sandy Places; Microhab Difficult To Pin Down. Usu. In Light- Colored Quartz Sand; Often In Wash Or Bajada. 195-2075m.
<i>Linanthus orcuttii</i> Orcutt's linanthus	--/--	1B.3		Chaparral, Lower Montane Coniferous Forest Sometimes in disturbed areas; often in gravelly clearings. 1060-2000m
<i>Lotus crassifolius</i> var. <i>otayensis</i> Otay Mountain lotus	--/--	1B.1		Chaparral Metavolcanic, often in disturbed areas. 910-1005m.

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<i>Lotus haydonii</i> pygmy lotus	--/--	1B.3		Sonoran Desert Scrub, Pinyon-Juniper Woodland. Creosote Bush Scrub To Pinyon-Juniper Woodland; Rocky Sites. 600-1200m.
<i>Lotus nuttallianus</i> Nuttall's lotus	--/--	1B.3	MSCP: Covered MHCP: NE	Coastal Dunes, Coastal Scrub On sand dunes; plants are threatened by encroachment of exotics. 0-10m.
<i>Lupinus excubitus</i> var. <i>medius</i> Mountain Springs bush lupine	--/--	1B.3		Pinyon and Juniper Woodland, Sonoran Desert Scrub Dry, Sandy, Gently Sloping Canyon Washes, Sandy Soil Pockets, and Flats In Steeper Slopes and Drainages. 425-1370m
<i>Lycium parishii</i> Parish's desert-thorn	--/--	2.3		Coastal Scrub, Sonoran Desert Scrub 300-1000M
<i>Malperia tenuis</i> brown turbans	--/--	2.3		Sonoran Desert Scrub Sandy places and rocky slopes. 15-335m
<i>Matelea parvifolia</i> spearleaf	--/--	2.3		Mojavean Desert Scrub, Sonoran Desert Scrub Dry rocky ledges and slopes. 440-1095m
<i>Mentzelia hirsutissima</i> hairy stickleaf	--/--	2.3		Sonoran Desert Scrub Washes, fans, slopes; coarse rubble and talus slopes; rocky sites. -5-800m
<i>Mentzelia tridentata</i> creamy blazing star	--/--	1B.3		Moavean Desert Scrub 700-1160M.
<i>Mobergia calculiformis</i> light gray lichen	--/--			Coastal Scrub? Abundant On Cobbles In Right Habitat; Only Known From One Site In Baja and One In San Diego Area
<i>Monardella hypoleuca</i> ssp. <i>lanata</i> felt-leaved monardella	--/--	1B.2	MSCP: NE	Chaparral, CISMONTANE WOODLAND Occurs in understory in mixed chaparral, chamise chaparral, and southern oak woodland; sandy soil. 300-1575m

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Monardella macrantha</i> ssp. <i>hallii</i> Hall's monardella	--/--	1B.3		Broadleaved Upland Forest, Chaparral, Lower Montane Coniferous Forest, Cismontane Woodland, Valley & Foothill Grassland Dry slopes and ridges in openings within the above communities. 695-2195m.
<i>Monardella nana</i> ssp. <i>leptosiphon</i> San Felipe monardella	--/--	1B.2		Chaparral, Lower Montane Coniferous Forest Sometimes In Openings and Fuelbreaks Or In The Understory Of Forest Or Chaparral. 1200-1855m.
<i>Monardella stoneana</i> Jennifer's monardella	--/--	1B.2		Coastal Scrub, Chaparral, Closed Cone Coniferous Forest, Riparian Scrub Usually Found In Rocky, Intermittent Streambeds. 10-660m
<i>Monardella viminea</i> willow monardella	CE/FE	1B.1	MSCP: Covered	Coastal Scrub/Alluvial Ephemeral Washes With Adjacent Coastal Scrub, Chaparral, Or Sycamore Woodland In canyons, in rocky and sandy places, sometimes in washes or floodplains; w/ <i>Baccharis</i> , <i>Iva</i> , etc. 50-225m
<i>Muilla clevelandii</i> San Diego goldenstar	--/--	1B.1	MSCP: Covered	Chaparral, Coastal Sage Scrub, Valley and Foothill Grassland, Vernal Pools Mesa grasslands, scrub edges; clay soils. Often on mounds between vernal pools in fine, sandy loam. 50-1090m.
<i>Myosurus minimus</i> ssp. <i>apus</i> little mousetail	--/--	3.1	MHCP: NE	Vernal Pools This subspecies has taxonomic problems; distinguishing between this and <i>M. Sessilis</i> is difficult. Hybrid? Alkaline soils. 20-640m.
<i>Nama stenocarpum</i> mud nama	--/--	2.2		Marshes and Swamps Lake shores, river banks, intermittently wet areas. 5-500m.
<i>Nasturtium gambelii</i> Gambel's water cress	CT/FE	1B.1		Marshes and Swamps Freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. 5-1305m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Navarretia fossalis</i> spreading navarretia	--/FT	1B.1		Vernal Pools, Chenopod Scrub, Marshes and Swamps, Playas. San Diego hardpan & San Diego claypan vernal pools; in swales & V.P's, often surr. by other habitat types. 30-1300m.
<i>Navarretia peninsularis</i> Baja navarretia	--/--	1B.2		Lower Montane Coniferous Forest, Chaparral. Wet areas in open forest. 1500-2425m
<i>Navarretia prostrata</i> prostrate navarretia	--/--	1B.1	MSCP: Covered MHCP: NE	Coastal Scrub, Valley and Foothill Grassland, Vernal Pools. Alkaline Soils In Grassland, Or In Vernal Pools. 15-700m.
<i>Nemacaulis denudata</i> var. <i>denudata</i> coast woolly-heads	--/--	1B.2		Mildly Protected Coastal Sand Dunes 0-100m
<i>Nemacaulis denudata</i> var. <i>gracilis</i> slender woolly-heads	--/--	2.2		Coastal Dunes, Desert Dunes, Sonoran Desert Scrub In Dunes Or Sand. 0-560m
<i>Nolina cismontana</i> chaparral nolina	--/--	1B.2		Chaparral, Coastal Scrub Primarily on sandstone and shale substrates; also known from gabbro. 140-1275m.
<i>Nolina interrata</i> Dehesa nolina	CE/--	1B.1	MSCP: NE	Chaparral Typically on rocky hillsides or ravines on ultramafic soils (gabbro or metavolcanic). 180-855m
<i>Opuntia californica</i> var. <i>californica</i> snake cholla	--/--	1B.1	MSCP: NE	Chaparral, Coastal Scrub 30-150m
<i>Opuntia wigginsii</i> Wiggins' cholla	--/--	3.3		Sonoran Desert Scrub Sandy soils. Sporadic hybrid between o. Ramosissima x o. Echinocarpa. 30-885m
<i>Orcuttia californica</i> California Orcutt grass	CE/FE	1B.1	MSCP: Covered MHCP: NE	Vernal Pools 15-660m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Ornithostaphylos oppositifolia</i> Baja California birdbush	CE/--	2.1		Chaparral Associated with <i>Ceanothus verrucosus</i> and <i>Salvia mellifera</i> in California. 55-800m
<i>Packera ganderi</i> Gander's ragwort (synonym = <i>Senecio ganderi</i>)	CR/--	1B.2		Recently Burned Sites and Gabbro Outcrops. 400-1200m
<i>Phacelia stellaris</i> Brand's phacelia	--/FC	1B.1		Coastal Scrub, Coastal Dunes Open Areas. 5-1515m
<i>Pinus torreyana ssp. torreyana</i> torrey pine	--/--	1B.2	MSCP: Covered MHCP: Covered	Closed-Cone Coniferous Forest, Southern Maritime Chaparral On dry, sandstone slopes. 70-160m.
<i>Poa atropurpurea</i> San Bernardino blue grass	--/FE	1B.2		Meadows and Seeps Mesic meadows of open pine forests and grassy slopes, loamy alluvial to sandy loam soil. 1350-2455m
<i>Pogogyne abramsii</i> San Diego mesa mint	CE/FE	1B.1	MSCP: Covered	Vernal Pools Vernal pools within grasslands, chamise chaparral or coastal sage scrub communities; w/other rare plants. 90-200m
<i>Pogogyne nudiuscula</i> Otay Mesa mint	CE/FE	1B.1	MSCP: Covered	Vernal Pools Dry beds of vernal pools and moist swales w/ <i>Eryngium aristulatum</i> var <i>parishii</i> and <i>orcuttia</i> <i>Californica</i> . 85-250m
<i>Quercus cedrosensis</i> Cedros Island oak	--/--	2.2		Closed-Cone Coniferous Forest, Chaparral, Coastal Scrub 225-488m
<i>Quercus dumosa</i> Nuttall's scrub oak	--/--	1B.1	MHCP: Covered	Closed-Cone Coniferous Forest, Chaparral, Coastal Scrub. More Common Scrub Oak Now = <i>Q. Berberidifolia</i> Generally On Sandy Soils Near The Coast; Sometimes On Clay Loam. 15-400m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Quercus engelmannii</i> Engelmann oak	--/--	4.2	MHCP: Covered	Engelmann Oak Occurs In Canyons and On Open Slopes In Foothill and Coastal Regions, Where It Is Associated With Engelmann Oak Woodland, Chaparral, and Grassland.
<i>Rhus trilobata</i> var. <i>simplicifolia</i> single-leaved skunkbrush	--/--	2.3		Pinyon-Juniper Woodland. 1220-1370m
<i>Ribes canthariforme</i> Moreno currant	--/--	1B.3		Chaparral Among boulders in oak-manzanita thickets; shaded or partially shaded sites. 340-1200m.
<i>Ribes viburnifolium</i> Santa Catalina Island currant	--/--	1B.2		Chaparral Among shrubs in canyons. 30-300m.
<i>Rosa minutifolia</i> small-leaved rose	CE/--	2.1	MSCP: Covered	Coastal Scrub, Chaparral In the United States, on cobbly soil at the head of a small, dry canyon on Otay Mesa. 150-160m
<i>Rubus glaucifolius</i> var. <i>ganderi</i> Cuyamaca raspberry	--/--	1B.3		Lower Montane Coniferous Forest Open, moist forest; gabbro soils. 1200-1730m.
<i>Salvia munzii</i> Munz' sage	--/--	2.2		Coastal Scrub, Chaparral Rolling hills and slopes, in rocky soil. 120-1090m.
<i>Satureja chandleri</i> San Miguel savory	--/--	1B.2	MSCP: Covered	Chaparral, Cismontane Woodland, Coastal Scrub, Rip Woodland, Valley and Foothill Grassland. Rocky, gabbroic or metavolcanic substrate. 120-1005m
<i>Schizymerium shevockii</i> Shevock's copper-moss	--/--	1B.2		Cismontane Woodland Moss on metamorphic rocks, mesic sites. On rocks along roads, in same habitat as <i>mielichhoferia elongata</i> . 750-1400m.
<i>Scutellaria bolanderi</i> ssp. <i>austromontana</i> southern skullcap	--/--	1B.2		Chaparral, Cismontane Woodland, Lower Montane Coniferous Forest. In gravelly soils on streambanks or in mesic sites in oak or pine woodland. 425-2000m

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<i>Selaginella eremophila</i> desert spike-moss	--/--	2.2		Sonoran Desert Scrub. Shaded sites, gravelly soils; crevices or among rocks. 300-2425m
<i>Senecio aphanactis</i> rayless ragwort	--/--	2.2		Cismontane Woodland, Coastal Scrub. Drying Alkaline Flats. 20-575m
<i>Senna covesii</i> Coves' cassia	--/--	2.2		Sonoran Desert Scrub Dry, Sandy Desert Washes, Slopes. 200-1070m
<i>Sibaropsis hammittii</i> Hammitt's clay-cress	--/--	1B.2		Valley and Foothill Grassland, Chaparral Mesic microsites in open areas on clay soils in stipa grassland. Often surrounded by adenostoma chaparral. 730-1065m.
<i>Sidalcea neomexicana</i> Salt Spring checkerbloom	--/--	2.2		Alkali Playas, Brackish Marshes, Chaparral, Coastal Scrub, Lower Montane Coniferous Forest, Mojavean Desert Scrub Alkali Springs and Marshes. 0-1500m
<i>Solanum tenuilobatum</i> narrow-leaved nightshade	--/--		MSCP: Covered	<u>Habitat:</u> Chaparral <u>Comments:</u> Solanum T. is now considered to be a synonym of Solanum Xanti, both in Jepson and by CNPS, and is therefore no longer considered sensitive.
<i>Spermolepis echinata</i> bristly scaleseed	--/--	2.3		Sonoran Desert Scrub Sandy or rocky sites. 60-1500m
<i>Sphaerocarpos drewei</i> bottle liverwort	--/--	1B.1		Chaparral, Coastal Scrub. Much Of Suitable Habitat Lost To Urbanization Liverwort in openings; on soil. 90-600m
<i>Stemodia durantifolia</i> purple stemodia	--/--	2.1		Sonoran Desert Scrub. Sandy soils; mesic sites. 180-300m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Streptanthus campestris</i> southern jewel-flower	--/--	1B.3		Chaparral, Lower Montane Coniferous Forest, Pinyon-Juniper Woodland Open, rocky areas. 600-2790m.
<i>Stylocline citroleum</i> oil neststraw	--/--	1B.1		Chenopod Scrub, Coastal Scrub? Flats, clay soils in oil-producing areas. 50-300m.
<i>Suaeda esteroa</i> estuary seablite	--/--	1B.2		Coastal Salt Marshes and Swamps Coastal salt marshes in clay, silt, and sand substrates. 0-5m.
<i>Symphotrichum defoliatum</i> San Bernardino aster	--/--	1B.2		Meadows and Seeps, Marshes and Swamps, Coastal Scrub, Cismontane Woodland, Lower Montane Coniferous Forest, Grassland Vernally mesic grassland or near ditches, streams and springs; disturbed areas. 2-2040m.
<i>Tetracoccus dioicus</i> Parry's tetracoccus	--/--	1B.2	MSCP: Covered MHCP: Covered	Chaparral, Coastal Scrub Stony, decomposed gabbro soil. 150-1000m.
<i>Texosporium sancti-jacobi</i> woven- spored lichen	--/--			Chaparral Open sites; in California w/ <i>Adenostoma</i> fas., eriogonum, selaginella. At pinnacles, on small mammal pellets. 290-660m.
<i>Thermopsis californica</i> var. <i>semota</i> velvety false lupine	--/--	1B.2		Lower Montane Coniferous Forest
<i>Tortula californica</i> California screw- moss	--/--	1B.2		Lower Montane Coniferous Forest, Meadows and Seeps, Cismontane Woodland, Valley and Foothill Grassland. Pine forests and meadow edges, on rocky slopes and outcrops, and along roadsides. 1030-1870m.
<i>Triquetrella californica</i> coastal triquetrella	--/--	1B.2		Coastal Bluff Scrub, Coastal Scrub Moss growing on soil. 10-100m.

Species	State/ Federal Status	CNPS List/Code	NCCP Coverage*	Typical Habitat/Comments
<i>Viola aurea</i> golden violet	--/--	2.2		Great Basin Scrub, Pinyon-Juniper Woodland Dry, sandy slopes. 835-1800m.
<i>Xylorhiza orcuttii</i> Orcutt's woody- aster	--/--	1B.2		Sonoran Desert Scrub Arid canyons; often in washes. 265-365m.

* NCCP coverage is based on aggregate MSCP and MHCP data, respectively. Consult local subarea plans if coverage and narrow endemic statuses for a *specific* portion of an MSCP or MHCP area are needed.

NOTE: See following page for explanation of sensitivity codes.

Sensitivity Codes

Federal Candidates and Listed Plants

FE = Federally listed, endangered
 FT = Federally listed, threatened
 FC = Candidate for federal listing

State Listed Plants

CE = State listed, endangered
 CR = State listed, rare
 CT = State listed, threatened

City of San Diego

- MSCP = MSCP covered species
- MHCP = MHCP covered species
- NE = MSCP or MHCP narrow endemic species

CALIFORNIA NATIVE PLANT SOCIETY

LISTS

THREAT CODE EXTENSIONS

- | | |
|--|---|
| 1A = Species presumed extinct. | .1 = Seriously endangered in California |
| 1B = Species rare, threatened, or endangered in California and elsewhere. These species are eligible for state listing. | .2 = Fairly endangered in California |
| 2 = Species rare, threatened, or endangered in California but which are more common elsewhere. These species are eligible for state listing. | .3 = Not very |
| 3 = Species for which more information is needed. Distribution, endangerment, and/or taxonomic information is needed. | |
| 4 = A watch list of species of limited distribution. These species need to be monitored for changes in the status of their populations. | |

References:

- 1995 City of Coronado MSCP Subarea Plan. Prepared for the City of Coronado. July.
- 1996 Poway Subarea Habitat Conservation Plan/Natural Communities Conservation Plan. Prepared for the City of Poway Planning Department by Ogden Environmental and Energy Services Co., Inc. April.

- 1997 Multiple Species Conservation Program City of San Diego MSCP Subarea Plan. Prepared by the City of San Diego Community and Economic Development Department. March.
- 1998a City of La Mesa MSCP Subarea Plan. Prepared by the City of La Mesa. February.
- 1998b County of San Diego Multiple Species Conservation Program, County of San Diego. Prepared by the County of San Diego with oversight by Regional Director, United States Fish and Wildlife Service, Director, California Department of Fish and Game, and any applicable local jurisdictions. August.
- 2000 Public Review Draft Oceanside Subarea Habitat Conservation Plan/Natural Communities Conservation Plan. Prepared for the City of Oceanside Planning Department by Ogden Environmental and Energy Services Co., Inc. and Conservation Biology Institute. November.
- 2001a Draft Natural Community Conservation Plan for the City of San Marcos. Prepared by the City of San Marcos. May.
- 2001b Public Review Draft Encinitas Subarea Plan. Prepared for the City of Encinitas Community Development Department by Ogden Environmental and Energy Services Co., Inc. and Conservation Biology Institute. June.
- 2001c Public Review Draft Escondido Subarea Plan: Implementing the Multiple Habitat Conservation Program. Prepared for the City of Escondido Planning Division by Ogden Environmental and Energy Services Co., Inc. and Conservation Biology Institute. June.
- 2003a City of Chula Vista MSCP Subarea Plan. Prepared by the City of Chula Vista. February.
- 2003b Final MHCP Plan, Vol. II: Biological Analysis and Permitting Conditions, San Diego County. Prepared for the cities within the Multiple Habitat Conservation Program, administered by SANDAG, and prepared by AMEC Earth & Environmental, Inc. and Conservation Biology Institute. March.
- 2004 Habitat Management Plan for Natural Communities in the City of Carlsbad. Prepared by the City of Carlsbad with oversight by Regional Director, United States Fish and Wildlife Service, Director, California Department of Fish and Game, and any applicable local jurisdictions. December.
- 2005 Multiple Species Conservation Program, County of San Diego Subarea Plan. Prepared by the County of San Diego. December.

California Native Plant Society

- 2007 CNPS Online Inventory <http://cnps.web.aplus.net/cgi-bin/inv/inventory.cgi>

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