Appendix J

CNDDB SPECIES LISTS

Table J-1. List of Animal Species Considered in this SEIR

	Federal	Calif listing			
Common name	listing status	status	Other Status	General Habitat	Micro Habitat
Santa Cruz long-toed salamander	Endangered	Endangered	DFG-Fully Protected	Wet meadows near sea level in a few restricted locales in Santa Cruz and Monterey counties.	Aquatic larvae prefer shallow (<12 inches) water, using clumps of vegetation or debris for cover. Adults use mammal burrows.
			ABC-Watch List of Birds of Conservation Concern; CDF- Sensitive; IUCN-Critically	Require vast expanses of open savannah, grasslands, and foothill	Deep canyons containing clefts in the rocky walls provide nesting sites.
California condor	Endangered	Endangered	Endangered ABC-Watch List of Birds of	chaparral in mountain ranges of moderate altitude.	forages up to 100 miles from roost/nest.
light-footed clapper rail	Endangered	Endangered	Conservation Concern; DFG- Fully Protected ABC-Watch List of Birds of	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.
California clapper rail	Endangered	Endangered	Conservation Concern; DFG- Fully Protected	Salt-water & brackish marshes traversed by tidal sloughs in the vicinity of San Francisco Bay.	Associated with abundant growths of pickleweed, but feeds away from cover on invertebrates from mud-bottomed sloughs.
California least tern	Endangered	Endangered	ABC-Watch List of Birds of Conservation Concern; DFG- Fully Protected	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.
southwestern willow flycatcher	Endangered	Endangered	ABC-Watch List of Birds of Conservation Concern	Riparian woodlands in Southern California.	
least Bell's vireo	Endangered	Endangered	ABC-Watch List of Birds of Conservation Concern; IUCN- Near Threatened	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.
coho salmon - central California coast ESU	Endangered	Endangered	AFS-Endangered	Federal listing = pops between Punta Gorda & San Lorenzo River. State listing = pops south of Punta Gorda.	Require beds of loose, silt-free, coarse gravel for spawning. Also need cover, cool water & sufficient dissolved oxygen.
chinook salmon - Sacramento River winter-run ES	Endangered	Endangered	AFS-Endangered	Sacramento River below Keswick Dam. Spawns in the Sacramento River but not in tributary streams.	Requires clean, cold water over gravel beds with water temperatures between 6 & 14 C for spawning.
Mohave tui chub	Endangered	Endangered	AFS-Endangered; DFG-Fully Protected	Endemic to the Mojave River basin, adapted to alkaline, mineralized waters.	Needs deep pools, ponds, or slough-like areas. Needs vegetation for spawning.
Owens tui chub	Endangered	Endangered	AFS-Endangered	Endemic to the Owens River basin in a variety of habitats.	Needs clear, clean water, adequate cover, and aquatic vegetation.
bonytail	Endangered	Endangered	AFS-Endangered; IUCN- Endangered	Found in the Colorado River bordering California.	Adapted for swimming in swift water, but both adults & young need backwaters & eddies. Needs gravel riffles for spawning
Modoc sucker	Endangered	Endangered	AFS-Endangered; DFG-Fully Protected; IUCN-Endangered	Found in tributary streams of the upper Pit River.	Found in large, shallow, muddy-bottomed pools. They are even found in intermittent streams. Spawn in riffle areas.
shortnose sucker	Endangered	Endangered	AFS-Endangered; DFG-Fully Protected; IUCN-Endangered	Native to the Klamath and Lost River systems in California & Oregon.	Spend most of year in open waters of large lakes. They feed on plankton. Spawn in tributary streams.
razorback sucker	Endangered	Endangered	AFS-Endangered; DFG-Fully Protected; IUCN-Endangered	Found in the Colorado River bordering California.	Adapted for swimming in swift currents but also need quiet waters. Spawn in areas of sand/gravel/rocks in shallow water.
Lost River sucker	Endangered	Endangered	AFS-Endangered; DFG-Fully Protected; IUCN-Endangered	Native to the Lost River system in California & Oregon.	Primarily a lake species found in fairly deep water. Adults run up tributary streams to spawn in the spring.
desert pupfish	Endangered	Endangered	AFS-Endangered	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 & dissolved oxygen levels down to 0.1 ppm.
Owens pupfish	Endangered	Endangered	AFS-Endangered; DFG-Fully Protected; IUCN-Endangered	Shallow water habitats in the Owens Valley.	Prefers warm, clear, shallow water free of exotic fishes. Needs areas of firm substrate for spawning.
unarmored threespine stickleback	Endangered	Endangered	AFS-Endangered; DFG-Fully Protected	Weedy pools, backwaters, and among emergent vegetation at the stream edge in small Southern California streams.	Cool (<24 C), clear water with abundant vegetation.
riparian brush rabbit	Endangered	Endangered		Riparian areas on the San Joaquin River in northern Stanislaus County.	Dense thickets of wild rose, willows, and blackberries.

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
Morro Bay kangaroo rat	Endangered	Endangered	DFG-Fully Protected	Coastal sage scrub on the south side of Morro Bay.	Needs sandy soil, but not active dunes, prefers early seral stages.
giant kangaroo rat	Endangered	Endangered	IUCN-Endangered	Annual grasslands on the western side of the San Joaquin Valley, marginal habitat in alkali scrub.	Need level terrain & sandy loam soils for burrowing.
Fresno kangaroo rat		Endangered	IUCN-Vulnerable	Alkali sink-open grassland habitats in western Fresno County.	Bare alkaline clay-based soils subject to seasonal inundation, with more friable soil mounds around shrubs & grasses.
		,	IUCN-Vulnerable	Saltbrush scrub and sink scrub communities in the Tulare Lake Basin of the southern San Joaquin Valley.	Needs soft friable soils which escape seasonal flooding. Digs burrows in elevated soil mounds at bases of shrubs.
Tipton kangaroo rat	_	Endangered	DFG-Fully Protected; IUCN-	Only in the saline emergent wetlands of San Francisco Bay and its	Pickleweed is primary habitat. Do not burrow, build loosely organized
salt-marsh harvest mouse	Endangered	Endangered	Endangered	tributaries.	nests. Require higher areas for flood escape. Burrows in soft soil. Nests are constructed in the burrows. Creates
Amargosa vole	Endangered	Endangered		Known only from bulrush marshes along the Amargosa River.	runway system through grasses from burrow.
Sierra Nevada bighorn sheep	Endangered	Endangered	DFG-Fully Protected	Historically found along the east side and crest of the Sierra Nevada, and on the Great Western Divide.	Available water and steep, open terrain free of competition from other grazing ungulates.
blunt-nosed leopard lizard	Endangered	Endangered	DFG-Fully Protected; IUCN- Endangered	Resident of sparsely vegetated alkali and desert scrub habitats, in areas of low topographic relief.	Seeks cover in mammal burrows, under shrubs or structures such as fence posts; they do not excavate their own burrows.
San Francisco garter snake	Endangered	Endangered	DFG-Fully Protected	Vicinity of freshwater marshes, ponds and slow moving streams in San Mateo County & extreme northern Santa Cruz County.	Prefers dense cover & water depths of at least one foot. upland areas near water are also very important.
California freshwater shrimp	Endangered	Endangered	IUCN-Endangered	Endemic to Marin, Napa, & Sonoma cos. Found in low elev, low gradient streams where riparian cover is moderate to heavy.	Shallow pools away from main streamflow. winter: undercut banks w/exposed roots. Summer: leafy branches touching water.
Shasta crayfish	Endangered	Endangered	IUCN-Critically Endangered	Found only in the Fall and Hat Creek sub-drainages of the Pit River system.	Inhabits cool, clear water w/low gradient and temp variability; substrate is volcanic rubble on sand/gravel; little veg.
			ABC-Watch List of Birds of Conservation Concern; DFG-	Nests in fresh-water marshes along the Colorado River and along	Prefers stands of cattails and tules dissected by narrow channels of flowing
Yuma clapper rail	Endangered	Threatened	Fully Protected	the south and east ends of the Salton Sea.	water; principle food is crayfish.
Stephens' kangaroo rat	Endangered	Threatened	IUCN-Endangered	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.
San Joaquin kit fox	Endangered	Threatened		Annual grasslands or grassy open stages with scattered shrubby vegetation.	Need loose-textured sandy soils for burrowing, and suitable prey base.
peninsular bighorn sheep	Endangered	Threatened	DFG-Fully Protected	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.
Sierra Madre yellow-legged frog	Endangered	Candidate	DFG-Species of Special Concern; IUCN-Endangered; USFS-Sensitive	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.
arroyo toad	Endangered	None	DFG-Species of Special Concern; IUCN-Endangered	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.
southern steelhead - southern California ESU		None	AFS-Endangered; DFG-Species of Special Concern	Fed listing refers to pops from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego Co.)	Southern steelhead likely have greater physiological tolerances to warmer water & more variable conditions.
			AFS-Endangered; DFG-Species of Special Concern; IUCN-	Brackish water habitats along the Calif coast from Agua Hedionda	Found in shallow lagoons and lower stream reaches, they need fairly still
tidewater goby	Endangered	None	Vulnerable	Lagoon, San Diego Co. to the mouth of the Smith River.	but not stagnant water & high oxygen levels.
Buena Vista Lake shrew	Endangered	None	DFG-Species of Special Concern	Marshlands and riparian areas in the Tulare Basin.	Prefers moist soil. Uses stumps, logs and litter for cover.

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Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
lesser long-nosed bat	Endangered	None	IUCN-Vulnerable		
Point Arena mountain beaver	Endangered	None	DFG-Species of Special Concern; IUCN-Least Concern	Coastal areas of Point Arena with springs or seepages.	North-facing slopes of ridges & gullies with friable soils & thickets of undergrowth.
Pacific pocket mouse	Endangered	None	DFG-Species of Special Concern	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.
San Bernardino kangaroo rat	Endangered	None		Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains.	Needs early to intermediate seral stages.
riparian (=San Joaquin Valley) woodrat	Endangered	None	DFG-Species of Special Concern	Riparian areas along the San Joaquin, Stanislaus & Tuolumne	Need areas with mix of brush & trees. Need suitable nesting sites in trees, snags or logs.
Conservancy fairy shrimp	Endangered	None	IUCN-Endangered	Endemic to the grasslands of the northern two-thirds of the Central Valley; found in large, turbid pools.	Inhabit astatic pools located in swales formed by old, braided alluvium; filled by winter/spring rains, last until June.
longhorn fairy shrimp	Endangered	None	IUCN-Endangered	Endemic to the eastern margin of the Central Coast mtns in seasonally astatic grassland vernal pools.	Inhabit small, clear-water depressions in sandstone and clear-to-turbid clay/grass-bottomed pools in shallow swales.
San Diego fairy shrimp	Endangered	None	IUCN-Endangered	Endemic to San Diego and Orange County mesas.	Vernal pools.
Riverside fairy shrimp	Endangered	None	IUCN-Endangered	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.
vernal pool tadpole shrimp	Endangered	None	IUCN-Endangered	Inhabits vernal pools and swales in the Sacramento Valley containing clear to highly turbid water.	Pools commonly found in grass bottomed swales of unplowed grasslands. Some pools are mud-bottomed & highly turbid.
Ohlone tiger beetle	Endangered	None		Remnant native grasslands with California oatgrass & purple needlegrass in Santa Cruz County.	Substrate is poorly-drained clay or sandy clay soil over bedrock of Santa Cruz mudstone.
Mount Hermon (=barbate) June beetle	Endangered	None		Known only from sand hills in vicinity of Mt. Hermon, Santa Cruz County.	
Delhi Sands flower-loving fly	Endangered	None		Found only in areas of the Delhi Sands formation in southwestern San Bernardino & northwestern Riverside counties.	Requires fine, sandy soils, often with wholly or partly consolidated dunes & sparse vegetation. Oviposition req. shade.
Laguna Mountains skipper	Endangered	None	XERCES-Critically Imperiled	Only in a few open meadows in yellow pine forest between 5,000 & 6,000 ft. in the vicinity of Mt Laguna & Palomar Mtn.	Eggs laid on leaves of Horkelia bolanderi clevelandi. Larvae feed on leaves and overwinter on the host plant.
Carson wandering skipper	Endangered	None	XERCES-Critically Imperiled	Found in grasslands on alkaline substrates in eastern California (around Honey Lake) & western Nevada (Washoe Co.) below 5,000 ft.	The larval host plant is salt grass. Needs open areas near springs or water.
San Bruno elfin butterfly	Endangered	None	XERCES-Critically Imperiled	Coastal, mountainous areas with grassy ground cover, mainly in the vicinity of San Bruno Mountain, San Mateo County.	Colonies are located on steep, north-facing slopes within the fog belt. Larval host plant is Sedum spathulifolium.
El Segundo blue butterfly	Endangered	None	XERCES-Critically Imperiled	Restricted to remnant coastal dune habitat in Southern California.	Hostplant is Eriogonum parvifolium; larvae feed only on the flowers and seeds; used by adults as major nectar source.
Smith's blue butterfly	Endangered	None	XERCES-Critically Imperiled	Most commonly associated with coastal dunes & coastal sage scrub plant communities in Monterey & Santa Cruz counties.	Hostplant: Eriogonum latifolium and Eriogonum parvifolium are utilized as both larval and adult foodplants.
Palos Verdes blue butterfly	Endangered	None	XERCES-Critically Imperiled	Restricted to the cool, fog-shrouded, seaward side of Palos Verdes Hills, Los Angeles County.	Host plant is Astragalus trichopodus var. lonchus (locoweed).
Mission blue butterfly	Endangered	None	XERCES-Critically Imperiled	Inhabits grasslands of the San Francisco peninsula.	Three larval host plants: Lupinus albifrons, L. variicolor, and L. formosus, of which L. albifrons is favored.

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Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
Lange's metalmark butterfly	Endangered	None	XERCES-Critically Imperiled	Inhabits stabilized dunes along the San Joaquin River. Endemic to Antioch Dunes, Contra Costa County.	Primary host plant is Eriogonum nudum var auriculatum; feeds on nectar of other wildflowers, as well as host plant.
Behren's silverspot butterfly	Endangered	None	XERCES-Critically Imperiled	Restricted to the Pacific side of the Coast Ranges, from Point Arena to Cape Mendocino, Mendocino Co.	Inhabits coastal terrace prairie habitat. Foodplant is Viola sp.
Myrtle's silverspot	Endangered	None	XERCES-Critically Imperiled	Restricted to the foggy, coastal dunes/hills of the Point Reyes peninsula; extirpated from coastal San Mateo County.	Larval foodplant thought to be Viola adunca.
callippe silverspot butterfly	Endangered	None	XERCES-Critically Imperiled	Restricted to the northern coastal scrub of the San Francisco peninsula.	Hostplant is Viola pedunculata. Most adults found on E-facing slopes; males congregate on hilltops in search of females.
quino checkerspot butterfly	Endangered	None	XERCES-Critically Imperiled	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 Plantago erecta, P. insularis, Orthocarpus purpurescens
Zayante band-winged grasshopper	Endangered	None	IUCN-Endangered	Isolated sandstone deposits in the Santa Cruz Mountains (the Zayante Sand Hills ecosystem)	Mostly on sand parkland habitat but also in areas with well-developed ground cover & in sparse chaparral with grass.
Morro shoulderband (=banded dune) snail	Endangered	None	IUCN-Critically Endangered	Restricted to the coastal strand in the immediate vicinity of Morro Bay.	Inhabits the duff beneath Haplopappus, Salvia, Dudleya, and Mesembryanthemum.
Casey's June beetle	Proposed Endangered	None		Found only in two populations in a small area of southern Palm Springs.	Found in sandy soils; the females live underground and only come to the ground surface to mate.
marbled murrelet	Threatened	Endangered	ABC-Watch List of Birds of Conservation Concern; CDF- Sensitive; IUCN-Endangered	Feeds near-shore; nests inland along coast from Eureka to Oregon border & from Half Moon Bay to Santa Cruz.	Nests in old-growth redwood-dominated forests, up to six miles inland, often in Douglas-fir.
Delta smelt	Threatened	Endangered	AFS-Threatened; IUCN- Endangered	Sacramento-San Joaquin Delta. Seasonally in Suisun Bay, Carquinez Strait & San Pablo Bay.	Seldom found at salinities > 10 ppt. Most often at salinities < 2ppt.
Coachella Valley fringe-toed lizard	Threatened	Endangered	IUCN-Endangered	Limited to sandy areas in the Coachella Valley, Riverside County.	Requires fine, loose, windblown sand (for burrowing), interspersed with hardpan and widely spaced desert shrubs.
California tiger salamander	Threatened	Threatened	DFG-Species of Special Concern; IUCN-Vulnerable	Central Valley DPS federally listed as threatened. Santa Barbara & Sonoma counties DPS federally listed as endangered.	Need underground refuges, especially ground squirrel burrows & vernal pools or other seasonal water sources for breeding
coho salmon - southern Oregon / northern Californ	Threatened	Threatened	AFS-Threatened; DFG-Species of Special Concern	Fed listing refers to populations between Cape Blanco, Oregon & Punta Gorda, Humboldt County, California.	State listing refers to populations between the Oregon border & Punta Gorda, California.
chinook salmon - Central Valley spring-run ESU	Threatened	Threatened	AFS-Threatened	Adult nos. depend on pool depth & volume, amount of cover, & proximity to gravel. Water temps >27 C is lethal to adults	Federal listing refers to pops spawning in Sacramento River & tributaries.
desert tortoise	Threatened	Threatened	IUCN-Vulnerable	Most common in desert scrub, desert wash, and Joshua tree habitats; occurs in almost every desert habitat.	Require friable soil for burrow and nest construction. Creosote bush habitat with Ig annual wildflower blooms preferred.
Alameda whipsnake	Threatened	Threatened		Typically found in chaparral and scrub habitats but will also use adjacent grassland, oak savanna and woodland habitats.	Mostly south-facing slopes & ravines, with rock outcrops, deep crevices or abundant rodent burrows, where shrubs form a vegetative mosaic with oak trees and grasses.
giant garter snake	Threatened	Threatened	IUCN-Vulnerable	Prefers freshwater marsh and low gradient streams. Has adapted to drainage canals & irrigation ditches.	This is the most aquatic of the garter snakes in California.
California red-legged frog	Threatened	None	DFG-Species of Special Concern; IUCN-Vulnerable	Lowlands & foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation.	Requires 11-20 weeks of permanent water for larval development. must have access to estivation habitat.
western snowy plover	Threatened	None	ABC-Watch List of Birds of Conservation Concern; DFG- Species of Special Concern;	Sandy beaches, salt pond levees & shores of large alkali lakes.	Needs sandy, gravelly or friable soils for nesting.
coastal California gnatcatcher	Threatened	None	ABC-Watch List of Birds of Conservation Concern; DFG- Species of Special Concern	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.

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green sturgeon	Threatened	None	AFS-Vulnerable; DFG-Species of Special Concern; IUCN-Near Threatened; NMFS-Species of	These are the most marine species of sturgeon. Abundance increases northward of Point Conception. Spawns in the Sacramentor, Klamath, & Trinity Rivers.	Spawns at temps between 8-14 C. Preferred spawning substrate is large cobble, but can range from clean sand to bedrock.
chinook salmon - California coastal ESU	Threatened	None	AFS-Threatened	Federal listing refers to wild spawned, coastal, spring & fall runs between Redwood Cr, Humboldt Co & Russian River, Sonoma Co	section and contracting mentioned and to be contracting
	Threatened	None	AFS-Threatened	Historically in all accessible cold waters of the Lahonton Basin in a wide variety of water temps & conditions.	Cannot tolerate presence of other salmonids. Requires gravel riffles in streams for spawning.
Lahontan cutthroat trout					Cannot tolerate presence of other salmonids, requires clean gravel for
Paiute cutthroat trout	Threatened	None	AFS-Endangered	Cool, well-oxygenated waters Native to the Little Kern River in Tulare County. Found in clear, cold	spawning.
Little Kern golden trout	Threatened	None	AFS-Endangered	mountain streams & lakes at 5,000 to 9,000 ft. From Russian River, south to Soquel Cr & to, but not including,	Need well-oxygenated, gravel-bottomed shallows for spawning.
steelhead - central California coast ESU	Threatened	None	AFS-Threatened	Pajaro River. Also San Francisco & San Pablo Bay basins.	
steelhead - south/central California coast ESU	Threatened	None	AFS-Threatened; DFG-Species of Special Concern	Fed listing refers to runs in coastal basins from the Pajaro River south to, but not including, the Santa Maria River.	
steelhead - Central Valley ESU	Threatened	None	AFS-Threatened	Populations in the Sacramento and San Joaquin rivers and their tributaries.	
steelhead - northern California ESU	Threatened	None	AFS-Threatened; DFG-Species of Special Concern	Coastal basins from Redwood Creek south to the Gualala River, inclusive. Does not include summer-run steelhead.	
eulachon	Threatened	None	DFG-Species of Special Concern	Found in Klamath River, Mad River, Redwood Creek & in small numbers in Smith River & Humboldt Bay tributaries.	Spawn in lower reaches of coastal rivers w/ moderate water velocities & bottom of pea-sized gravel, sand & woody debris
Santa Ana sucker	Threatened	None	AFS-Threatened; DFG-Species of Special Concern; IUCN-Vulnerable	Endemic to Los Angeles Basin south coastal streams.	Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, & algae.
vernal pool fairy shrimp	Threatened	None	IUCN-Vulnerable	Endemic to the grasslands of the Central Valley, Central Coast mtns, and South Coast mtns, in astatic rain-filled pools.	Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools.
Delta green ground beetle	Threatened	None	IUCN-Critically Endangered	Restricted to the margins of vernal pools in the grassland area between Jepson Prairie and Travis AFB.	Prefers the sandy mud substrate where it slopes gently into the water, with low-growing vegetation, 25-100% cover.
valley elderberry longhorn beetle	Threatened	None		Occurs only in the central valley of California, in association with blue elderberry (Sambucus mexicana).	Prefers to lay eggs in elderberrries 2-8 inches in diameter; some preference shown for "stressed" elderberries.
Hippolyta frittilary	Threatened	None	XERCES-Critically Imperiled	Coastal meadows in Del Norte County.	The larvae feed only on the foliage of the western dog violet (Viola adunca).
Bay checkerspot butterfly	Threatened	None	XERCES-Critically Imperiled	Restricted to native grasslands on outcrops of serpentine soil in the vicinity of San Francisco Bay.	Plantago erecta is the primary host plant; Orthocarpus densiflorus & O. purpurscens are the secondary host plants.
Kern primrose sphinx moth	Threatened	None	XERCES-Critically Imperiled	Found in the Walker Basin, Kern Co., and several other scattered locations (Carrizo Plain, Pinnacles NM).	Host plant is Camissonia contorta epilobioides (evening primrose).
mountain plover	Proposed Threatened	None	ABC-Watch List of Birds of Conservation Concern; BLM- Sensitive; DFG-Species of	Short grasslands, freshly plowed fields, newly sprouting grain fields, & sometimes sod farms	Short vegetation, bare ground & flat topography. Prefers grazed areas & areas with burrowing rodents.
western yellow-billed cuckoo	Candidate	Endangered	USFS-Sensitive; USFWS-Birds of Conservation Concern		Nests in riparian jungles of willow, often mixed with cottonwoods, w/ lower story of blackberry, nettles, or wild grape.
Yosemite toad	Candidate	None	DFG-Species of Special Concern; IUCN-Endangered; USFS-Sensitive	Vicinity of wet meadows in central High Sierra, 6400 to 11,300 feet in elevation.	Primarily montane wet meadows; also in seasonal ponds associated with lodgepole pine and subalpine conifer forest.

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Oregon spotted frog	Candidate	None	DFG-Species of Special Concern; IUCN-Vulnerable; USFS-Sensitive	Low swampy areas in mountainous woodlands & wet meadows, springs, small cold streams & lakes in northeastern Calif.	Standing water needed for breeding.
Sierra Nevada yellow-legged frog	Candidate	Candidate	DFG-Species of Special Concern; IUCN-Endangered; USFS-Sensitive	Always encountered within a few feet of water. Tadpoles may require 2 - 4 yrs to complete their aquatic development.	
Palm Springs round-tailed ground squirrel	Candidate	None	DFG-Species of Special Concern	Restricted to the Coachella Valley. Prefers desert succulent scrub, desert wash, desert scrub, alkali scrub, & levees.	Prefers open, flat, grassy areas in fine-textured, sandy soil. Density correlated with winter rainfall.
Pacific fisher	Candidate	None	BLM-Sensitive; DFG-Species of Special Concern; USFS-Sensitive	Intermediate to large-tree stages of coniferous forests & deciduous- riparian areas with high percent canopy closure.	Uses cavities, snags, logs & rocky areas for cover & denning. Needs large areas of mature, dense forest.
mardon skipper	Candidate	None	XERCES-Imperiled	Known from western Washington State and extreme northwestern Del Norte Co.	
California brown pelican	Delisted	Delisted	DFG-Fully Protected	Colonial nester on coastal islands just outside the surf line.	Nests on coastal islands of small to moderate size which afford immunity from attack by ground-dwelling predators. Roosts communally.
American peregrine falcon	Delisted	Delisted	CDF-Sensitive; DFG-Fully Protected; USFWS-Birds of Conservation Concern	Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures.	Nest consists of a scrape or a depression or ledge in an open site.
bald eagle	Delisted	Endangered	CDF-Sensitive; DFG-Fully Protected; IUCN-Least Concern; USFS-Sensitive; USFWS-Birds of	Ocean shore, lake margins, & rivers for both nesting & wintering. Most nests within 1 mi of water.	Nests in large, old-growth, or dominant live tree w/open branches, especially ponderosa pine. Roosts communally in winter.
cackling (=Aleutian Canada) goose	Delisted	None		Winters on lakes and inland prairies.	Forages on natural pasture or that cultivated to grain; loafs on lakes, reservoirs, ponds.
elf owl	None	Endangered	ABC-Watch List of Birds of Conservation Concern; IUCN- Least Concern; USFWS-Birds of	In California, nesting area limited to cottonwood-willow & mesquite riparian zone along the Colorado River.	Nest in deserted woodpecker holes, often in larger trees which offer insulation from high daytime temperatures.
great gray owl	None	Endangered	CDF-Sensitive; IUCN-Least Concern; USFS-Sensitive	Resident of mixed conifer or red fir forest habitat, in or on edge of meadows.	Requires large diameter snags in a forest with high canopy closure, which provide a cool sub-canopy microclimate.
Gila woodpecker	None	Endangered	IUCN-Least Concern; USFWS- Birds of Conservation Concern ABC-Watch List of Birds of	In California, inhabits cottonwoods and other desert riparian trees, shade trees, and date palms.	Cavity nester in riparian trees or saguaro cactus.
gilded flicker	None	Endangered	Conservation Concern; IUCN- Least Concern; USFWS-Birds of	Sonoran desert habitat and riparian woodlands along the Colorado River.	Uses willows, cottonwood, tree yucca and, when available, saguaro cactus.
willow flycatcher	None	Endangered	ABC-Watch List of Birds of Conservation Concern; IUCN-Least Concern; USFS-Sensitive;	Inhabits extensive thickets of low, dense willows on edge of wet meadows, ponds, or backwaters; 2000-8000 ft elevation	Requires dense willow thickets for nesting/roosting. Low, exposed branches are used for singing posts/hunting perches.
little willow flycatcher	None	Endangered	ABC-Watch List of Birds of Conservation Concern; USFWS- Birds of Conservation Concern	Mountain meadows and riparian habitats in the Sierra Nevada and Cascades	Nests near the edges of vegetation clumps and near streams.
Arizona bell's vireo	None	Endangered	ABC-Watch List of Birds of Conservation Concern; IUCN- Near Threatened; USFWS-Birds	Summer resident along Colorado River. Chiefly inhabits willow thickets with undergrowth of Baccharis glutinosa	Nests in willow, mesquite, or other small tree/shrub, within 8 ft (usually 2-3 ft) of ground.
Datilia da assessa da assessa da	Mana	Endonos '		Inhabits coastal salt marshes, from Santa Barbara south through	
Belding's savannah sparrow	None	Endangered	IUCN-Vulnerable; USFS-	San Diego County. Only in the lower Kern River Canyon in valley-foothill hardwood,	Nests in Salicomia on and about margins of tidal flats. Found under downed pine, oak & chaparral scrub logs, as well as under
Kern Canyon slender salamander	None	Threatened	Sensitive BLM-Sensitive; IUCN-Vulnerable;	valley-foothill hardwood-conifer, & mixed chaparral. Valley-foothill hardwood-conifer & valley-foothill riparian in the Piute	rocks & talus on steep, north-facing slopes. Prefers wet talus slopes or log-strewn hillsides with a steep, north-facing
Tehachapi slender salamander	None	Threatened	USFS-Sensitive DFG-Fully Protected; IUCN-	& Tehachapi Mountains of Kern County.	exposure.
limestone salamander	None	Threatened	Vulnerable; USFS-Sensitive	Limestone outcrops in digger pine-chaparral belt along the Merced River and its tributaries, from 800-2600 feet in elevation.	California buckeye ia an indicator of optimal habitat. Seeks cover in limestone caverns, talus, rock fissures, surface objects.

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
Common name	listing status	Status	Other Status	Ceneral Habitat	WIGIO Habitat
Shasta salamander	None	Threatened	BLM-Sensitive; IUCN-Vulnerable; USFS-Sensitive	Cool, wet ravines and valleys; dominant vegetation is oak woodland or chaparral, also pine and fir; 100 to 2550 ft elevation.	Seeks cover under surface objects such as logs, rocks, and limestone slabs or talus, near limestone fissures or caves.
Siskiyou Mountains salamander	None	Threatened	IUCN-Endangered; USFS- Sensitive	Mixed conifer habitat of dense, pole-to-mature size, trees. Active above ground only during spring & fall rains.	Found under loose rock rubble at the base of talus slopes or under surface objects.
Scott Bar salamander	None	Threatened	IUCN-Vulnerable	Found only in the vicinity of the Scott River in Siskiyou County	
black toad	None	Threatened	DFG-Fully Protected; IUCN- Vulnerable	Found only in Deep Springs Valley, between the White and Inyo mountains, Inyo County, 5000-5200 feet in elevation.	Near springs, watercourses, marshes, & wet meadows. Seeks cover under & between clumps of vegetation or surface objects.
Swainson's hawk	None	Threatened	ABC-Watch List of Birds of Conservation Concern; IUCN- Least Concern; USFS-Sensitive;	Breeds in grasslands with with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch lands with groves or lines of trees.	Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.
California black rail	None	Threatened	ABC-Watch List of Birds of Conservation Concern; DFG- Fully Protected; IUCN-Near	Inhabits freshwater martshes, 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.
greater sandhill crane	None	Threatened	DFG-Fully Protected; USFS- Sensitive	Nests in wetland habitats in northeastern California; winters in the Central Valley.	Prefers grain fields within 4 mi of a shallow body of water used as a communal roost site; irrigated pasture used as loafing sites
bank swallow	None	Threatened	IUCN-Least Concern	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.
rough sculpin	None	Threatened	AFS-Vulnerable; DFG-Fully Protected; IUCN-Vulnerable	Restricted to the Pit River above and below the falls at Burney, & the Hat Creek & Fall River subdrainages.	Found mostly on the muddy bottoms of large streams.
longfin smelt	None	Threatened	DFG-Species of Special Concern	Euryhaline, nektonic & anadromous. Found in open waters of estuaries, mostly in middle or bottom of water column.	Prefer salinities of 15-30 ppt, but can be found in completely freshwater to almost pure seawater.
Cottonball Marsh pupfish	None	Threatened	AFS-Threatened	Two joined marshy areas in the northwest portion of Death Valley National Park.	Shallow pools with salinities from 14 to 160 ppt.
Nelson's antelope squirrel	None	Threatened	IUCN-Endangered	Western San Joaquin Valley from 200-1200 ft elev. On dry, sparsely vegetated loam soils.	Dig burrows or use k-rat burrows. Need widely scattered shrubs, forbs & grasses in broken terrain with gullies & washes
Mohave ground squirrel	None	Threatened	IUCN-Vulnerable	Open desert scrub, alkali scrub & Joshua tree woodland. Also feeds in annual grasslands. Restricted to Mojave Desert.	Prefers sandy to gravelly soils, avoids rocky areas. Uses burrows at base of shrubs for cover. Nests are in burrows.
Sierra Nevada red fox	None	Threatened	USFS-Sensitive	Found from the Cascades down to the Sierra Nevada. Found in a variety of habitats from wet meadows to forested areas.	Use dense vegetation & rocky areas for cover & den sites. Prefer forests interspersed w/ meadows or alpine fell-fields.
California wolverine	None	Threatened	DFG-Fully Protected; IUCN-Near Threatened; USFS-Sensitive	Found in the north coast mountains and the Sierra Nevada. Found in a wide variety of high elevation habitats.	Needs water source. uses caves, logs, burrows for cover & den area. Hunts in more open areas. Can travel long distances
southern rubber boa	None	Threatened	USFS-Sensitive	Restricted to the San Bernardino and San Jacinto mtns; found in a variety of montane forest habitats.	Found in vicinity of streams or wet meadows; requires loose, moist soil for burrowing; seeks cover in rotting logs.
Trinity bristle snail	None	Threatened	IUCN-Vulnerable	Known only from along a few streams in the Trinity River drainage.	Juveniles are found under bark of standing dead broadleaf trees, and the species may require this habitat.
Inyo Mountains slender salamander	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN- Endangered; USFS-Sensitive	Moist canyons on the west & east slopes of the Inyo Mountains, where surface water is present.	Takes cover under rocks on moist sandy loam in steep-walled canyons with permanent springs. Also in underground crevices.
relictual slender salamander	None	None	DFG-Species of Special Concern; IUCN-Data Deficient; USFS-Sensitive	Mixed coniferous forest on the western slope of southern Sierra Nevada between Kings River drainage & Kern River Canyon.	Usually found under boards, rotting logs, rocks & surface litter. Surface activity limited to rainy winter months.
San Gabriel slender salamander	None	None	IUCN-Data Deficient; USFS- Sensitive	Known only from the San Gabriel Mtns. Found under rocks, wood, fern fronds & on soil at the base of talus slopes.	Most active on the surface in winter and early spring.

Table J-1. List of Animal Species Considered in this SEIR

	Federal	Calif listing			
Common name	listing status	status	Other Status	General Habitat	Micro Habitat
Kings River slender salamander	None	None	IUCN-Vulnerable	Mixed chaparral with buckeye, laurel, canyon and blue oak, ponderosa and lowland pine.	Found under rocks in areas of talus.
Kern Plateau salamander	None	None	IUCN-Near Threatened; USFS- Sensitive	Only in the semiarid Kern Plateau & Scodie Mountains. Frequents Jeffery pine/red fir, lodgepole pine & riparian scrub.	Found under rocks, bark fragments, logs and within and under wet logs, especially in spring and seep areas.
yellow-blotched salamander	None	None	BLM-Sensitive; DFG-Species of Special Concern; USFS-Sensitive		Needs surface objects, such as logs, boards, and rocks. Also needs old rodent burrows or other underground retreats.
large-blotched salamander	None	None	DFG-Species of Special Concern; USFS-Sensitive	Found in conifer and woodland associations.	Found in leaf litter, decaying logs and shrubs in heavily forested areas.
Mount Lyell salamander	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Massive rock areas in mixed conifer, red fir, lodgepole pine, and subalpine habitats, 4000 to 11,600 feet in elevation.	Active on the surface only when free water is available, in the form of seeps, drips, or spray.
Owens Valley web-toed salamander	None	None	DFG-Species of Special Concern	Oak Creek in Charlie Canyon, Inyo County.	Rocky habitat, including cliff faces and cave walls.
Del Norte salamander	None	None	DFG-Species of Special Concern; IUCN-Near Threatened	Old-growth associated species with optimum conditions in the mixed conifer/hardwood ancient forest ecosystem.	Cool, moist, stable microclimate, a deep litter layer, closed multi-storied canopy, dominated by large, old trees.
Coast Range newt	None	None	DFG-Species of Special Concern	Coastal drainages from Mendocino County to San Diego County.	Lives in terrestrial habitats & will migrate over 1 km to breed in ponds, reservoirs & slow moving streams.
southern torrent salamander	None	None	DFG-Species of Special Concern; IUCN-Least Concern; USFS-Sensitive	Coastal redwood, Douglas-fir, mixed conifer, montane riparian, and montane hardwood-conifer habitats. Old growth forest.	Cold, well-shaded, permanent streams and seepages, or within splash zone or on moss-covered rock within trickling water.
Pacific tailed frog	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Occurs in montane hardwood-conifer, redwood, Douglas-fir & ponderosa pine habitats.	Restricted to perennial montane streams. Tadpoles require water below 15 degrees C.
Couch's spadefoot	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN-Least Concern	Temporary desert rainpools that last a least 7 days, with water temps > 15 C & with subterranean refuge sites close by.	An insect food base especially termites must be available.
western spadefoot	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN-Near Threatened	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	Vernal pools are essential for breeding and egg-laying.
northern red-legged frog	None	None	DFG-Species of Special Concern; USFS-Sensitive	Humid forests, woodlands, grasslands, & streamsides in northwestern California, usually near dense riparian cover.	Generally near permanent water, but can be found far from water, in damp woods and meadows, during non-breeding season.
foothill yellow-legged frog	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN-Near Threatened; USFS-Sensitive	Partly-shaded, shallow streams & riffles with a rocky substrate in a variety of habitats.	Need at least some cobble-sized substrate for egg-laying. Need at least 15 weeks to attain metamorphosis.
Cascades frog	None	None	DFG-Species of Special Concern; IUCN-Near Threatened; USFS-Sensitive	Montane aquatic habitats such as mountain lakes, small streams, and ponds in meadows; open coniferous forests.	Standing water required for reproduction. Hibernates in mud on the bottom of lakes and ponds during the winter.
northern leopard frog	None	None	DFG-Species of Special Concern; IUCN-Least Concern; USFS-Sensitive	Native range is east of Sierra Nevada-Cascade Crest. Near permanent or semi-permanent water in a variety of habitats.	Highly aquatic species. Shoreline cover, submerged and emergent aquatic vegetation are important habitat characteristics
fork-tailed storm-petrel	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Colonial nester on small, offshore islets. Forages over the open ocean, usually well off-shore.	Birds choose off-shore islets which provide nesting crannies beneath rocks or sod for burrowing.
ashy storm-petrel	None	None	ABC-Watch List of Birds of Conservation Concern; DFG- Species of Special Concern;	Colonial nester on off-shore islands. Usually nests on driest part of islands. Forages over open ocean.	Nest sites on islands are in crevices beneath loosely piled rocks or driftwood, or in caves.
American white pelican	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Colonial nester on large interior lakes.	Nests on large lakes, providing safe roosting and breeding places in the form of well-sequestered islets.
double-crested cormorant	None	None	DFG-Watch List; IUCN-Least Concern	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.

Table J-1. List of Animal Species Considered in this SEIR

	Federal	Calif listing			
Common name	listing status	status	Other Status DFG-Species of Special	General Habitat	Micro Habitat
least bittern	None	None	Concern; IUCN-Least Concern; USFWS-Birds of Conservation	Colonial nester in marshlands and borders of ponds and reservoirs which provide ample cover.	Nests usually placed low in tules, over water.
great blue heron	None	None	CDF-Sensitive; IUCN-Least Concern	Colonial nester in tall trees, cliffsides, and sequestered spots on marshes.	Rookery sites in close proximity to foraging areas: marshes, lake margins, tide-flats, rivers and streams, wet meadows.
great egret	None	None	CDF-Sensitive; IUCN-Least Concern	Colonial nester in large trees.	Rookery sites located near marshes, tide-flats, irrigated pastures, and margins of rivers and lakes.
snowy egret	None	None	IUCN-Least Concern	Colonial nester, with nest sites situated in protected beds of dense tules.	Rookery sites situated close to foraging areas: marshes, tidal-flats, streams, wet meadows, and borders of lakes.
black-crowned night heron	None	None	IUCN-Least Concern	Colonial nester, usually in trees, occasionally in tule patches.	Rookery sites located adjacent to foraging areas: lake margins, mud- bordered bays, marshy spots.
white-faced ibis	None	None	DFG-Watch List; IUCN-Least Concern	Shallow fresh-water marsh.	Dense tule thickets for nesting interspersed with areas of shallow water for foraging.
wood stork	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Freshwater and saltwater sloughs, lagoons, shallow ponds and marshes.	
fulvous whistling-duck	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Fresh-water marsh.	Tule/cattail marsh.
harlequin duck	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Breeds on west slope of the Sierra Nevada, nesting along shores of swift, shallow rivers.	Nest often built in a recess, sheltered overhead by stream bank, rocks, woody debris, usually within 7 ft of water.
osprey	None	None	CDF-Sensitive; DFG-Watch List; IUCN-Least Concern	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.
white-tailed kite	None	None	DFG-Fully Protected; IUCN-Least Concern	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.
northern harrier	None	None	DFG-Species of Special Concern; IUCN-Least Concern	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.
sharp-shinned hawk	None	None	DFG-Watch List	Ponderosa pine, black oak, riparian deciduous, mixed conifer & Jeffrey pine habitats. Prefers riparian areas.	North-facing slopes, with plucking perches are critical requirements. Nests usually within 275 ft of water.
Cooper's hawk	None	None	DFG-Watch List; IUCN-Least Concern	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.
northern goshawk	None	None	BLM-Sensitive; CDF-Sensitive; DFG-Species of Special Concern; IUCN-Least Concern;	Within, and in vicinity of, coniferous forest. Uses old nests, and maintains alternate sites.	Usually nests on north slopes, near water. Red fir, lodgepole pine, Jeffrey pine, and aspens are typical nest trees.
Harris' hawk	None	None	DFG-Watch List; IUCN-Least Concern	Was in lower Colorado River & Imperial Valley in riparian forests of cottonwoods near mesquite thickets.	Deciduous woods and adjacent open ground, of river or delta bottomlands.
ferruginous hawk	None	None	DFG-Watch List; IUCN-Least Concern; USFWS-Birds of Conservation Concern	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.
golden eagle	None	None	CDF-Sensitive; DFG-Fully Protected; DFG-Watch List; IUCN- Least Concern; USFWS-Birds of	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.
merlin	None	None	DFG-Watch List; IUCN-Least Concern	Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands & deserts, farms & ranches.	Clumps of trees or windbreaks are required for roosting in open country.
prairie falcon	None	None	DFG-Watch List; IUCN-Least Concern; USFWS-Birds of Conservation Concern	Inhabits dry, open terrain, either level or hilly.	Breeding sites located on cliffs. Forages far afield, even to marshlands and ocean shores.
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	Federal	Calif listing			
Common name	listing status	status	Other Status	General Habitat	Micro Habitat
ruffed grouse	None	None	DFG-Watch List; IUCN-Least Concern	Extreme northern humid coastal strip, in Del Norte, Humboldt, and Siskiyou counties.	Inhabits dense canyon-bottom or stream-side growths, usually of mixed deciduous and coniferous trees.
greater sage-grouse	None	None	ABC-Watch List of Birds of Conservation Concern; BLM- Sensitive; DFG-Species of	Found in the northeastern, Great Basin portion of state.	Restricted to flat/rolling terrain vegetated by sage-brush, upon which it depends for both food and shelter.
yellow rail	None	None	ABC-Watch List of Birds of Conservation Concern; DFG- Species of Special Concern;	Summer resident in eastern Sierra Nevada in Mono County.	Fresh-water marshlands.
yellow rail	IVOITE	TAOLIC	opecies of opecial concern,	Summer resident in eastern olena Nevada in Mono Oddiny.	1 rean-water maismands.
lesser sandhill crane	None	None	DFG-Species of Special Concern		
California gull	None	None	DFG-Watch List; IUCN-Least Concern	Littoral waters, sandy beaches, waters & shorelines of bays, tidal mud-flats, marshes, lakes, etc.	Colonial nester on islets in large interior lakes, either fresh or strongly alkaline.
aull-billed tern	None	None	ABC-Watch List of Birds of Conservation Concern; DFG- Species of Special Concern;	Only known breeding colonies in Imperial & Riverside Counties.	Nests on low, sandy islets. Known to feed on fishes at mouth of Colorado River and on grasshoppers in alfalfa fields.
Caspian tern	None	None	IUCN-Least Concern; USFWS- Birds of Conservation Concern	Nests on sandy or gravely beaches and shell banks in small colonies inland and along the coast.	Inland fresh-water lakes and marshes; also, brackish or salt waters of estuaries and bays.
			ABC-Watch List of Birds of Conservation Concern; DFG-	Nests on gravel bars, low islets, and sandy beaches, in unvegetated	editalités and bays.
black skimmer	None	None	Species of Special Concern;	sites. Nesting colonies usually less than 200 pairs.	
rhinoceros auklet	None	None	DFG-Watch List; IUCN-Least Concern	Off-shore islands and rocks along the California coast.	Nests in a burrow on undisturbed, forested and unforested islands, and probably in cliff caves on the mainland.
tufted puffin	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Open-ocean bird; nests along the coast on islands, islets, or (rarely) mainland cliffs.	Requires sod or earth into which the birds can burrow, on island cliffs or grassy island slopes.
burrowing owl	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN-Least Concern; USFWS-Birds of	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.
long-eared owl	None	None	DFG-Species of Special Concern; IUCN-Least Concern	, , ,	Require adjacent open land productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.
short-eared owl	None	None	ABC-Watch List of Birds of Conservation Concern; DFG- Species of Special Concern;	Found in swamp lands, both fresh and salt; lowland meadows; irrigated alfalfa fields.	Tule patches/tall grass needed for nesting/daytime seclusion. Nests on dry ground in depression concealed in vegetation.
black swift	None	None	ABC-Watch List of Birds of Conservation Concern; DFG- Species of Special Concern:		Breeds in small colonies on cliffs behind or adjacent to waterfalls in deep canyons and sea-bluffs above the surf; forages widely
	None	None	ABC-Watch List of Birds of Conservation Concern; IUCN- Least Concern		sanyona ana saa bano abore ne san, rotages waciiy
Costa's hummingbird	None	INOTIE		Desert riparian, desert and arid scrub foothill habitats.	
vermilion flycatcher	None	None	DFG-Species of Special Concern; IUCN-Least Concern	During nesting, inhabits desert riparian adjacent to irrigated fields, irrigation ditches, pastures, & other open, mesic areas	Nest in cottonwood, willow, mesquite, and other large desert riparian trees.
brown-crested flycatcher	None	None	DFG-Watch List; IUCN-Least Concern	Inhabits desert riparian along Colorado River, as well as other desert oases & riparian area NW to Victorville.	Requires riparian thickets, trees, snags, and shrubs for foraging perches, nesting cavities, and cover.
California horned lark	None	None	DFG-Watch List; IUCN-Least Concern	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.
	None	None	DFG-Species of Special Concern: IUCN-Least Concern	Inhabits woodlands, low elevation coniferous forest of Douglas-fir,	Nests in old woodpecker cavities mostly, also in human-made structures. Nest often located in tall, isolated tree/snag.
purple martin			ABC-Watch List of Birds of Conservation Concern; IUCN-	ponderosa pine, & Monterey pine. Central Valley and coastal mountain ranges from south of San	Open oak & riparian woodland, farm & ranchland or urban areas with tall
yellow-billed magpie	None	None	Least Concern; USFWS-Birds of	Francisco to Santa Barbara Co.	trees near grassland, pasture or cropland.

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Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
None	None	DFG-Watch List; IUCN-Least Concern	Inhabits riparian woodlands in Del Norte and northern Humboldt counties.	Mainly found in deciduous tree-types, especially willows and alders, along large or small watercourses.
		DFG-Species of Special		
None	None	USFWS-Birds of Conservation	Southern California coastal sage scrub.	Wrens require tall opuntia cactus for nesting and roosting.
None	None	IUCN-Least Concern	Primarily inhabits wooded desert wash habitats; also occurs in desert scrub habitat, especially in winter.	Nests in desert washes containing mesquite, paloverde, ironwood, acacia; absent from areas where salt cedar introduced.
None	None	Conservation Concern; BLM-Sensitive; DFG-Species of	Migratory; local spring/summer resident in flat areas of desert succulent shrub/Joshua tree habitats in Mojave Desert.	Nests in cholla, yucca, paloverde, thorny shrub, or small tree, usually 0.5 to 20 feet above ground.
None	None	Concern; IUCN-Least Concern	Resident of southeastern deserts in desert riparian and desert wash habitats.	Nests in dense vegetation along streams/washes; mesquite, screwbean mesquite, ironwood, catclaw, acacia, arrowweed, willow.
None	None	Conservation Concern; DFG-	Desert resident; primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats.	Commonly nests in a dense, spiny shrub or densely branched cactus in desert wash habitat, usually 2-8 feet above ground.
None	None	DFG-Species of Special Concern; IUCN-Least Concern; USFWS-Birds of Conservation	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.
None	None	Conservation Concern; BLM- Sensitive; DFG-Species of	Dry chaparral; west of desert, in chamise-dominated habitat; mountains of Mojave Desert, associated with juniper & Artemisia.	Forage, nest, and sing in areas formed by a continuous growth of twigs, 1-5 ft above ground.
None	None	ABC-Watch List of Birds of Conservation Concern; DFG- Watch List; IUCN-Least Concern;	East slope of Southern Sierra Nevada, in arid, shrubby, mixed- conifer, pinyon-juniper, montane-chaparral. 7000-9000 ft	Nests on arid slopes w/ stands of tall shrubs/scattered trees; also, riparian thickets of willow/wild rose along streams.
None	None	ABC-Watch List of Birds of Conservation Concern; DFG- Species of Special Concern;	Lower Colorado River Valley & the washes & arroyos emptying into it.	Partial to thickets of mesquite, riparian scrub & even stands of tamarisk.
None	None	DFG-Species of Special Concern; USFWS-Birds of Conservation Concern	Summer resident of Colorado River Valley, in riparian deciduous habitat. Below 600 ft elev.	Inhabits cottonwoods and willows, particularly the crown foliage; nests in understory, usually 2-16 ft above ground.
None	None	DFG-Species of Special Concern; USFWS-Birds of Conservation Concern	Riparian plant associations. Prefers willows, cottonwoods, aspens, svcamores. & alders for nesting & foraging.	Also nests in montane shrubbery in open conifer forests.
None	None	DFG-Species of Special Concern; USFWS-Birds of Conservation Concern	Resident of the San Francisco Bay region, in fresh and salt water marshes.	Requires thick, continuous cover down to water surface for foraging; tall grasses, tule patches, willows for nesting.
None	None	DFG-Species of Special Concern; IUCN-Least Concern	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.
None	None	DFG-Watch List; IUCN-Least Concern	White fir-pinyon forest on desert peaks, 5300-8100 ft elev. Understory of xerophytic shrubs.	
None	None	DFG-Species of Special Concern; IUCN-Least Concern	Summer resident of desert riparian along lower Colorado River, & locally elsewhere in California deserts.	Requires cottonwood-willow riparian for nesting and foraging; prefers older, dense stands along streams.
None	None	DFG-Watch List; IUCN-Least Concern	Extremely rare resident along the Colorado River.	Dense brushy river bottom thickets, well-vegetated dry washes & dense desert scrub.
None	None	ABC-Watch List of Birds of Conservation Concern; IUCN- Least Concern	Desert riparian and desert wash habitats in the lower Colorado River Valley, also the Imperial & Coachella valleys.	Frequents dense vegetation, thickets of willow, cottonwood, mesquite, & saltcedar.
None	None	DFG-Watch List	Resident in Southern California coastal sage scrub and sparse mixed chaparral.	Frequents relatively steep, often rocky hillsides with grass & forb patches.
		ABC-Watch List of Birds of Conservation Concern; IUCN-	East of Cascade-Sierra Nevada crest, mountains & high valleys of	For nesting they prefer high sagebrush plains, slopes & valley with Great Basin sagebrush & antelope brush.
	None None None None None None None None	Iisting status None None	None None None DFG-Watch List; IUCN-Least Concern DFG-Species of Special Concern; USFS-Sensitive; USFWS-Birds of Conservation None None	Internation

Table J-1. List of Animal Species Considered in this SEIR

	Federal	Calif listing			
Common name	listing status	status	Other Status	General Habitat	Micro Habitat
Bell's sage sparrow	None	None	ABC-Watch List of Birds of Conservation Concern; DFG- Watch List; USFWS-Birds of	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.
large-billed savannah sparrow	None	None	DFG-Species of Special Concern	Breeds along the Colorado River delta in Mexico; winters at the Salton Sea.	Saline emergent wetlands at the Salton Sea and southern coast.
grasshopper sparrow	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Dense grasslands on rolling hills, lowland plains, in valleys & on hillsides on lower mountain slopes.	Favors native grasslands with a mix of grasses, forbs & scattered shrubs. Loosely colonial when nesting.
Suisun song sparrow	None	None	DFG-Species of Special Concern; USFWS-Birds of Conservation Concern	Resident of brackish-water marshes surrounding Suisun Bay.	Inhabits cattails, tules and other sedges, and Salicornia; also known to frequent tangles bordering sloughs.
Alameda song sparrow	None	None	DFG-Species of Special Concern; USFWS-Birds of Conservation Concern	Resident of salt marshes bordering south arm of San Francisco Bay.	Inhabits Salicornia marshes; nests low in Grindelia bushes (high enough to escape high tides) and in Salicornia.
San Pablo song sparrow	None	None	DFG-Species of Special Concern; USFWS-Birds of Conservation Concern	Resident of salt marshes along the north side of San Francisco and San Pablo bays.	Inhabits tidal sloughs in the Salicornia marshes; nests in Grindelia bordering slough channels.
gray-headed junco	None	None	DFG-Watch List	Summer resident of Clark Mountain (eastern San Bernardino County) & Grapevine Mtns (Inyo County).	Inhabits white fir association at 7300 ft (Clark Mountain); also, from dense pinyons above 6700 ft (Grapevine Mountains).
tricolored blackbird	None	None	ABC-Watch List of Birds of Conservation Concern; BLM- Sensitive; DFG-Species of	Highly colonial species, most numberous 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.
yellow-headed blackbird	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Nests in freshwater emergent wetlands with dense vegetation & deep water. Often along borders of lakes or ponds.	Nests only where large insects such as Odonata are abundant, nesting timed with maximum emergence of aquatic insects.
Kern brook lamprey	None	None	AFS-Threatened; DFG-Species of Special Concern; IUCN-Near Threatened	San Joaquin River system and Kern River.	Gravel-bottomed areas for spawning and muddy-bottomed areas where ammocoetes can burrow and feed.
Pit-Klamath brook lamprey	None	None	AFS-Vulnerable	In California it is found only in the Pit River system.	Low-gradient reaches of clear, cool rivers and streams with sand-mud bottoms or edges.
Pacific lamprey	None	None	AFS-Vulnerable	Found in Pacific Coast streams north of San Luis Obispo Co., however regular runs in Santa Clara River. Size of runs is declining.	Swift-current gravel bottomed areas for spawning with water temps between 12-18 C. Ammocoetes need soft sand or mud.
Goose Lake lamprey	None	None	AFS-Vulnerable; DFG-Species of Special Concern; USFS-Sensitive	Adults live in shallow, alkaline Goose Lake.	Require gravel rifles in streams for spawning. Ammocoetes require muddy backwater habitats downstream of spawning areas.
Klamath River lamprey	None	None	AFS-Threatened; DFG-Species of Special Concern	Upper Klamath River and upper Klamath Lake.	Adults need coarser gravel-rubble substrate for spawning. Ammocoetes need sand/mud substrate in shallow pools.
riffle sculpin	None	None			
bigeye marbled sculpin	None	None	AFS-Vulnerable; DFG-Species of Special Concern	Found in the Pit River system & 3 tributaries - Hat Creek, Burney Creek & the Fall River system.	Large, clear, cool spring-fed streams, but sometimes found in reservoirs. Prefers abundant vegetation & coarse substrates
Upper Klamath marbled sculpin	None	None			
Lower Klamath marbled sculpin	None	None			
reticulate sculpin	None	None	DFG-Species of Special Concern	Streams on the California/Oregon border that drain north into the Rogue River & the middle fork of the Applegate River.	Tolerant of fairly high fluctuations of water temperature. Can tolerate water temps to 30 C & salinities to 18 ppt.
white sturgeon	None	None	AFS-Endangered; IUCN-Least Concern	Live in estuaries of large rivers, moving into freshwater to spawn. Most abundant in brackish portions of estuaries.	In estuaries adults concentrate in deep areas with soft bottoms.

Table J-1. List of Animal Species Considered in this SEIR

	Federal	Calif listing			
Common name	listing status	status	Other Status	General Habitat	Micro Habitat
pink salmon	None	None	DFG-Species of Special Concern	Most spawn in intertidal or lower reaches of streams & rivers in Sept & Oct. Move further upstream in Sacramento River.	Optimal temp = 5.6 to 14.4 C. Embryos & alevins require fast-flowing, well oxygenated water for development & survival.
chum salmon	None	None	DFG-Species of Special Concern	Short freshwater & extensive marine life stage. Especially dependent upon estuaries during non-migratory juvenille stage	Select spawing sites where there are good intragravel flows with optimum spawning temps of 7.2 - 12.8 C.
chinook salmon - spring-run Klamath-Trinity River	None	None	DFG-Species of Special Concern; USFS-Sensitive	Spring-run chinook in the Trinity River & the Klamath River upstream of the mouth of the Trinity River.	Major limiting factor for juvenile chinook salmon is temperature, which strongly effects growth & survival.
chinook salmon - Central Valley fall / late fall-run E	None	None	AFS-Vulnerable; DFG-Species of Special Concern; NMFS-Species of Concern; USFS-Sensitive	Populations spawning in the Sacramento & San Joaquin rivers and their tributaries.	
coast cutthroat trout	None	None	AFS-Vulnerable; DFG-Species of Special Concern; USFS-Sensitive	Small coastal streams from the Eel River to the Oregon border.	Small, low gradient coastal streams & estuaries. Need shaded streams with water temps <18C, & small gravel for spawning
Eagle Lake rainbow trout	None	None	AFS-Threatened; DFG-Species of Special Concern; USFS- Sensitive	Endemic to Eagle Lake, Lassen County, & its main tributaries, Pine and Papoose creeks.	
Kern River rainbow trout	None	None	AFS-Threatened; DFG-Species of Special Concern	Endemic to the upper Kern River & its tributaries.	Cool, clear, fast flowing streams where riffles are abundant.
Goose Lake redband trout	None	None		Found only in the Goose Lake drainage in California & Oregon. Spawns in high elevation sections of tributary streams.	Can survive temps of 15-20 C, high alkalinities & high turbidity. Requires access from the lake to the spawning areas.
McCloud River redband trout	None	None	AFS-Vulnerable; DFG-Species of Special Concern; USFS-Sensitive	Lives in small spring fed tributaries of the McCloud River.	Water temperatures are cold (<15 C), flow is 1-40 CFS.
Warner Valley redband trout	None	None	AFS-Vulnerable; USFS-Sensitive	Only present in the Warner Lakes Basin, in the extreme northeastern portion of California.	
Volcano Creek golden trout	None	None	AFS-Threatened; DFG-Species of Special Concern; USFS-Sensitive	Native to Kern Plateau in wide, shallow & exposed streams with little riparian vegetation. Transplanted to other waters.	Stream bottoms of sand, gravel & some cobble, water is clear & usually cold, but summer temps can vary from 3 to 22 C.
summer-run steelhead trout	None	None	DFG-Species of Special Concern	No. Calif coastal streams south to Middle Fork Eel River. Within range of Klamath Mtns province ESU & No. Calif ESU.	Cool, swift, shallow water & clean loose gravel for spawning, & suitably large pools in which to spend the summer.
mountain whitefish	None	None			
Eagle Lake tui chub	None	None	DFG-Species of Special Concern	Found only in Eagle Lake, Lassen County.	Requires beds of aquatic vegetation in shallow, inshore areas for successful spawning.
Cow Head tui chub	None	None	AFS-Endangered; DFG-Species of Special Concern	Known only from the Cow Head sub-basin of the Warner Basin.	Need sufficient water to maintain the large pools that support the fish, especially during drought years.
Lahontan Lake tui chub	None	None	DFG-Species of Special Concern; USFS-Sensitive	Inhabits large, deep lakes. Tolerates a wide range of physiochemical water conditions.	Spawns in near-shore shallow areas over beds of aquatic vegetation.
Goose Lake tui chub	None	None	AFS-Threatened; DFG-Species of Special Concern; USFS- Sensitive	Confined to the Goose Lake Basin of Oregon and California.	Chubs prefer pools & are generally not found in swift water. They've been found in habitats with temps from 9-29 C.
Pit River tui chub	None	None			
blue chub	None	None	DFG-Species of Special Concern	Abundant in lakes, but found in a variety of habitats, from small streams & rivers to shallow reservoirs & deep lakes.	Most abundant in warm, quiet waters with mixed substrates. Spawns over shallow rocky areas.
arroyo chub	None	None	AFS-Vulnerable; DFG-Species of Special Concern; USFS-Sensitive	Native to streams from Malibu Cr to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez, Mohave & San Diego river basins.	Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation & associated invertebrates.

Table J-1. List of Animal Species Considered in this SEIR

	Federal	Calif listing		0	Mineral Made Name
Common name	listing status	status	Other Status	General Habitat	Micro Habitat
Clear Lake hitch	None	None	AFS-Vulnerable; DFG-Species of Special Concern; USFS-Sensitive	Found only in Clear Lake, Lake Co, and associated ponds. Spawns in streams flowing into Clear Lake.	Adults found in the limnetic zone. Juveniles found in the nearshore shallow- water habitat hiding in the vegetation.
Central Valley hitch	None	None			
Pajaro/Salinas hitch	None	None			
				Tributaries to the San Joaquin River from the Cosumnes River	
San Joaquin roach	None	None	DFG-Species of Special Concern	south.	
Tomales roach	None	None	DFG-Species of Special Concern	Tributaries to Tomales Bay.	
Tomaics Toach	None	TVOTIC	Di G-opedies di opediai concern	į	
Navarro roach	None	None	DFG-Species of Special Concern	Habitat generalists. Found in warm intermittent streams as well as cold, well-aerated streams.	
Gualala roach	None	None	DFG-Species of Special Concern	Found only in the Gualala River.	
Monterey roach	None	None	DFG-Species of Special Concern	Tributaries to Monterey Bay, specifically the Salinas, Pajaro, & San Lorenzo drainages.	
Monterey roads	TTORIC	TTORIC	·	· ·	
Pit roach	None	None	AFS-Vulnerable; DFG-Species of Special Concern	Found in the upper Pit River and its tributaries, and tributaries to Goose Lake.	Found in deep pools, but also in areas of low flows, moderate gradients, warm temperatures and mats of vegetation.
			AFS-Vulnerable; BLM-Sensitive;		
Red Hills roach	None	None	DFG-Species of Special Concern	Small streams near Sonora.	Found in areas with serpentine soil.
Clear Lake - Russian River roach	None	None			
Olda Edito Trassian Tivo Todon	TTORIC	TTORIC			
hardhead	None	None	DFG-Species of Special Concern; USFS-Sensitive	Low to mid-elevation streams in the Sacramento-San Joaquin drainage. Also present in the Russian River.	Clear, deep pools with sand-gravel-boulder bottoms & slow water velocity. Not found where exotic centrarchids predominate.
Haranead	110.10	110.10	AFS-Vulnerable; DFG-Species of		·
Sacramento splittail	None	None	Special Concern; IUCN- Endangered	Endemic to the lakes and rivers of the Central Valley, but now confined to the Delta, Suisun Bay & associated marshes.	Slow moving river sections, dead end sloughs. Requires flooded vegetation for spawning & foraging for young.
			AFS-Threatened; BLM-Sensitive;	Found only in Amargosa Canyon and tributaries of the Amargosa	Prefers pools with relatively deep water (0.5 - 0.75 m) and slow water
Amargosa Canyon speckled dace	None	None	DFG-Species of Special Concern	River, esp. Willow Creek & Willow Creek Reservoir.	velocity.
Long Valley speckled dace	None	None	AFS-Endangered	Found only in Long Valley in the Owens River drainage.	
			AFS-Threatened; DFG-Species		
Owens speckled dace	None	None	of Special Concern AFS-Threatened; DFG-Species	Small streams and springs in Owens Valley.	Occupies a variety of habitats. Rarely found in water > 29 C.
			of Special Concern; USFS-	Headwaters of the Santa Ana and San Gabriel rivers. May be	Requires permanent flowing streams with summer water temps of 17-20 C.
Santa Ana speckled dace	None	None	Sensitive	extirpated from the Los Angeles River system.	Usually inhabits shallow cobble and gravel riffles.
	ļ		2500 1 10 115	Endemic to the Owens River drainage. In its native river habitat it is	Adults can thrive in reservoirs, but need gravelly riffles in tributary streams
Owens sucker	None	None	DFG-Species of Special Concern	most common in areas with long runs & few riffles	for spawning.
flannelmouth sucker	None	None		Colorado River bordering California.	Spawns in riffles, usually over a substrate of coarse gravel.
	1		AFS-Vulnerable; DFG-Species of	The state of the s	Spawns in Goose Lake tributary streams. Adults found in streams & lake
Goose Lake sucker	None	None		Restricted to the Goose Lake Basin.	all year round. feeds on algae & diatoms.

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
mountain sucker	None	None	DFG-Species of Special Concern	Restricted to the Lahontan drainage system and the north fork of the Feather River.	Generally occupy pool-like habitats. Abundance greatest in areas with dense cover.
Jenny Creek sucker	None	None	AFS-Vulnerable	Found only in the isolated upstream areas of Jenny Creek, a tributary to the Klamath River in Oregon.	Most abundant in deep, quiet pools and slower-moving stretches.
Klamath largescale sucker	None	None	AFS-Threatened; DFG-Species of Special Concern; IUCN-Near Threatened	Native to the Klamath River & Lost River-Clear Lake systems of Oregon and California.	Inhabits both lentic & lotic habitats, but primarily a riverine fish, they migrate upstream to spawn in spring.
Amargosa pupfish	None	None	AFS-Vulnerable; BLM-Sensitive; DFG-Species of Special Concern	Permanent water sections of the lower Amargosa River.	Two types of habitat: broad marshes fed by hot springs, and a narrow, steep-sided canyon area with swift flows.
Saratoga Springs pupfish	None	None	AFS-Threatened; DFG-Species of Special Concern	Only known from Saratoga Springs and its outflow in Death Valley.	A series of marshes and shallow lakes. Water temps vary from 10 to 49 C.
Shoshone pupfish	None	None	AFS-Endangered; DFG-Species of Special Concern	Found in Shoshone Spring and throughout its outlet creek, Inyo Co. Habitat has been drastically altered.	Historically the spring pool had clear water over a mud bottom with overhanging banks. Outflow was probably marshy.
Santa Ana (=Shay Creek) threespine stickleback	None	None	AFS-Endangered	Native only to Shay Creek & in wet years, Baldwin Lake. Survives in only 3 ponds (see Micro Habitat for description of ponds).	1-artifical pool in Shay Creek. 2-introduced to pond in Sugarloaf Meadows. 3-introduced to pvt pond near Baldwin Lake.
resident threespine stickleback	None	None	USFS-Sensitive		
Sacramento perch	None	None	AFS-Threatened; DFG-Species of Special Concern	Historically found in the sloughs, slow-moving rivers, and lakes of the Central Valley.	Prefers warm water. Aquatic vegetation is essental for young. Tolerates wide range of physio-chemical water conditions.
Russian River tule perch	None	None	AFS-Vulnerable; DFG-Species of Special Concern	Low elevation streams of the Russian River system.	Requires clear, flowing water with abundant cover. They also require deep (> 1 m) pool habitat.
Sacramento-San Joaquin tule perch	None	None			
Clear Lake tule perch	None	None			
Mount Lyell shrew	None	None	DFG-Species of Special Concern; IUCN-Least Concern	High elevation riparian areas in the southern Sierra Nevada.	Requires moist soil, lives in grass or under willows. Uses logs, stumps, etc. for cover.
salt-marsh wandering shrew	None	None	DFG-Species of Special Concern	Salt marshes of the south arm of San Francisco Bay.	Medium high marsh 6-8 ft above sea level where abundant driftwood is scattered among salicornia.
Suisun shrew	None	None	DFG-Species of Special Concern	Tidal marshes of the northern shores of San Pablo and Suisun bays.	Require dense low-lying cover and driftweed and other litter above the mean hightide line for nesting and foraging.
southern California saltmarsh shrew	None	None	DFG-Species of Special Concern	Coastal marshes in Los Angeles, Orange and Ventura counties.	Requires dense vegetation and woody debris for cover.
Monterey shrew	None	None	DFG-Species of Special Concern	Riparian, wetland & upland areas in the vicinity of the Salinas River delta.	Prefers moist microhabitats. feeds on insects & other invertebrates found under logs, rocks & litter.
Alameda Island mole	None	None	DFG-Species of Special Concern	Only known from Alameda Island. Found in a variety of habitats, especially annual & perennial grasslands.	Prefers moist, friable soils. avoids flooded soils.
Angel Island mole	None	None	BLM-Sensitive; DFG-Species of	Known only from Angel Island in San Francisco Bay.	Need friable soils for burrowing.
California leaf-nosed bat	None	None	Special Concern; IUCN-Least Concern; USFS-Sensitive;	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.

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	Federal	Calif listing			
Common name	listing status	status	Other Status	General Habitat	Micro Habitat
Mexican long-tongued bat	None	None	DFG-Species of Special Concern; IUCN-Near Threatened; WBWG-High Priority	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.
little brown bat	None	None	IUCN-Least Concern; WBWG- Medium Priority	State rank for San Bernardino Mtns population only. Hibernates in mines or caves. Will use buildings for roosts.	Forages near water. Females return to same nursery colonies year after year.
Yuma myotis	None	None	BLM-Sensitive; IUCN-Least Concern; WBWG-Low-Medium Priority	Optimal habitats are open forests and woodlands with sources of water over which to feed.	Distribution is closely tied to bodies of water. Maternity colonies in caves, mines, buildings or crevices.
cave myotis	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN-Least Concern; WBWG-Medium Priority	Lowlands of the Colorado River and adjacent mountain ranges.	Require caves or mines for roosting.
long-eared myotis	None	None	BLM-Sensitive; IUCN-Least Concern; WBWG-Medium Priority	Found in all brush, woodland & forest habitats from sea level to about 9000 ft. prefers coniferous woodlands & forests.	Nursery colonies in buildings, crevices, spaces under bark, & snags. Caves used primarily as night roosts.
fringed myotis	None	None	BLM-Sensitive; IUCN-Least Concern; WBWG-High Priority	In a wide variety of habitats, optimal habitats are pinyon-juniper, valley foothill hardwood & hardwood-conifer.	Uses caves, mines, buildings or crevices for maternity colonies and roosts.
long-legged myotis	None	None	IUCN-Least Concern; WBWG- High Priority	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.
western small-footed myotis	None	None		Wide range of habitats mostly arid wooded & brushy uplands near water. Seeks cover in caves, buildings, mines & crevices	Prefers open stands in forests and woodlands. Requires drinking water. Feeds on a wide variety of small flying insects.
Arizona Myotis	None	None	DFG-Species of Special Concern; IUCN-Least Concern; WBWG-Medium Priority	Lowlands of the Colorado River and adjacent desert mountain ranges.	Need roosting areas in tree hollows, rock crevices, under bridges, etc.
silver-haired bat	None	None	IUCN-Least Concern; WBWG- Medium Priority	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.
hoary bat	None	None	IUCN-Least Concern; WBWG- Medium Priority	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 red bat	None	None	DFG-Species of Special Concern; IUCN-Least Concern; USFS-Sensitive; WBWG-High	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.
western yellow bat	None	None	DFG-Species of Special Concern; IUCN-Least Concern; WBWG-High Priority	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats.	Roosts in trees, particularly palms. Forages over water and among trees.
spotted bat	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN-Least Concern; WBWG-High Priority	Occupies a wide variety of habitats from arid deserts and grasslands through mixed conifer forests.	Feeds over water and along washes. Feeds almost entirely on moths. Needs rock crevices in cliffs or caves for roosting.
Townsend's big-eared bat	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN-Least Concern; USFS-Sensitive;	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.
pallid bat	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN-Least Concern; USFS-Sensitive;	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.
western mastiff bat	None	None	BLM-Sensitive; DFG-Species of Special Concern; WBWG-High Priority	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.
pocketed free-tailed bat	None	None	DFG-Species of Special Concern; IUCN-Least Concern; WBWG-Medium Priority	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc.	Rocky areas with high cliffs.
big free-tailed bat	None	None	DFG-Species of Special Concern; IUCN-Least Concern; WBWG-Medium-High Priority	Low-lying and areas in Southern California.	Need high cliffs or rocky outcrops for roosting sites. Feeds principally on large moths.
White Mountains Pika	None	None	IUCN-Vulnerable	Mountainous areas, generally at higher elevations, often above the treeline up to the limit of vegetation.	Talus slopes above 8000 ft, occasionally on mine tailings. Prefers talus-meadow interface.

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Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
Common name	noting status	Status	Other Status	Mountainous areas, generally at higher elevations, often above the	micro Habitat
	Name	N		treeline up to the limit of vegetation. At lower elevations found in	Talus slopes, occasionally on mine tailings. Prefers talus-meadow
Taylor pika	None	None		rocky areas within forests or near lakes. Mountainous areas, generally at higher elevations, often above the	interface.
				treeline up to the limit of vegetation. At lower elevations found in	Talus slopes, occasionally on mine tailings. Prefers talus-meadow
gray-headed pika	None	None	IUCN-Near Threatened	rocky areas within forests or near lakes. Mountainous areas, generally at higher elevations, often above the	interface.
				treeline up to the limit of vegetation. At lower elevations found in	Talus slopes, occasionally on mine tailings. Prefers talus-meadow
Yosemite pika	None	None		rocky areas within forests or near lakes. Mountainous areas, generally at higher elevations, often above the	interface.
				treeline up to the limit of vegetation. At lower elevations found in	Talus slopes, occasionally on mine tailings. Prefers talus-meadow
Mt. Whitney pika	None	None		rocky areas within forests or near lakes.	interface.
				Above the yellow pine zone in Canadian and Hudsonian provinces	
Oregon snowshoe hare	None	None	DFG-Species of Special Concern	in Northern California.	Alder & willow thickets in riparian zone, also thickets of young conifers.
Sierra Nevada snowshoe hare	None	None	DEG-Species of Special Concern	Boreal riparian areas in the Sierra Nevada.	Thickets of deciduous trees in riparian areas and thickets of young conifers.
Sierra Nevada silowsiloe riare	None	None	Di G-opecies di opecial concern		
western white-tailed jackrabbit	None	None	DFG-Species of Special Concern	Sagebrush, subalpine conifer, juniper, alpine dwarf shrub & perennial grassland.	Open areas with scattered shrubs & exposed flat-topped hills with open stands of trees, brush & herbaceous understory.
,			·	Intermediate concept storage of abruh habitate 9 ones abruh /	·
San Diego black-tailed jackrabbit	None	None	DFG-Species of Special Concern	Intermediate canopy stages of shrub habitats & open shrub / herbaceous & tree / herbaceous edges.	Coastal sage scrub habitats in Southern California.
			BLM-Sensitive; DFG-Species of		·
pygmy rabbit	None	None	Special Concern; IUCN-Least Concern	Sagebrush, bitterbrush, & pinyon-juniper habitats in Modoc, Lassen & Mono counties.	Tall dense, large-shrub stages of sagebrush, greasewood & rabbitbrush. May avoid heavily grazed areas.
pygmy rabbit					, , , ,
Point Reyes mountain beaver	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Coastal area of Point Reyes in areas of springs or seepages.	North-facing slopes of hills & gullies in areas overgrown with sword ferns and thimbleberries.
r om riogeo mountain boure.			·		
Sierra Nevada mountain beaver	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Dense growth of small deciduous trees & shrubs, wet soil, & abundance of forbs in the Sierra Nevada & east slope.	Needs dense understory for food & cover. Burrows into soft soil. Needs abundant supply of water.
Sierra Nevada mountain beaver	IVOIIC	IVOIIC	Concern, 10014-Least Concern		117
lodgopolo obipmunk	None	None		Summits of isolated Piute, San Bernardino, & San Jacinto mountains. Usually found in open-canopy forests.	Habitat is usually lodgepole pine forests in the San Bernardino Mts & chinquapin slopes in the San Jacinto Mts.
lodgepole chipmunk	None	None		, , ,	crimquapin slopes in the San Sacinto Mits.
Can Daynardina flying agricual	None	None	DFG-Species of Special Concern; USFS-Sensitive	Black oak or white fir dominated woodlands between 5200 - 8500 ft in the San Bernardino and San Jacinto ranges.	Need coulties in trace/anage for neets & cover. Needs nearby water
San Bernardino flying squirrel	none	none	Concern, USFS-Sensitive	in the San Bernardino and San Jacinto ranges.	Need cavities in trees/snags for nests & cover. Needs nearby water.
l	N	N	DFG-Species of Special	Lower elevation grasslands & coastal sage communities in and	Open ground with fine sandy soils. May not dig extensive burrows, hiding
Los Angeles pocket mouse	None	None	Concern; USFS-Sensitive	around the Los Angeles Basin.	under weeds & dead leaves instead.
			BLM-Sensitive; DFG-Species of	Desert riparian, desert scrub, desert wash & sagebrush habitats.	
Palm Springs pocket mouse	None	None	Special Concern	most common in cresote-dominated desert scrub.	Rarely found on rocky sites. Occurs in all canopy coverage classes.
	1			Desert riparian, desert scrub, desert wash, coastal scrub &	
Jacumba pocket mouse	None	None	DFG-Species of Special Concern	sagebrusn.	Rarely found on rocky sites, uses all canopy coverages.
San Joaquin pocket mouse	None	None	BLM-Sensitive	Typically found in grasslands and blue oak savannas.	Needs friable soils.
Salinas pocket mouse	None	None	DFG-Species of Special Concern	Annual grassland & desert shrub communities in the Salinas Valley.	Fine-textured, sandy, friable soils. Burrows for cover & nesting.
				Known only from four canyons in the Tehachapi Mountains,	Desert shrub and Joshua tree communities with scattered pinyon pines.
yellow-eared pocket mouse	None	None	BLM-Sensitive DFG-Species of Special	northeastern Kern County. Elevational range 4000-5300 ft.	Occupies underground burrow when inactive.
			Concern; IUCN-Endangered;	Arid annual grassland & desert shrub communities, but also taken in	Burrows for cover & nesting. Aestivates and hibernates during extreme
Tehachapi pocket mouse	None	None	USFS-Sensitive	fallow grain field & in Russian thistle.	weather. Forages on open ground & under shrubs.

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
big-eared kangaroo rat	None	None	DFG-Species of Special Concern	Chaparral-covered slopes of the southern part of the Gabilian Range, in the vicinity of the Pinnacles.	Forages under shrubs & in the open. Burrows for cover and for nesting.
Santa Cruz kangaroo rat	None	None		Silverleaf manzanita mixed chaparral in the Zayante Sand Hills ecosystem of the Santa Cruz Mountains.	Needs soft, well-drained sand.
Berkeley kangaroo rat	None	None		Open grassy hilltops & open spaces in chaparral & blue oak/digger pine woodlands.	Needs fine, deep, well-drained soil for burrowing.
Merced kangaroo rat	None	None		Grassland and savanna communities in eastern Merced & Stanislaus counties.	Needs fine, deep, well-drained soil for burrowing. Granivorous, but also eats forbs & green grasses.
Marysville California kangaroo rat	None	None	BLM-Sensitive; DFG-Species of Special Concern	Known only from the Sutter Buttes area.	Friable soil, grass-forb stages of chaparral.
Argus Mountains kangaroo rat	None	None		Known only from the Argus Mountain range. Inhabitats creosote scrub, saltbush scrub, & Joshua tree woodland.	Sandy-gravelly soils with an overstory of big sage, pinyon pine, juniper, or yucca.
Panamint kangaroo rat	None	None		Found only in the Panamint Range between 4600 & 7000 ft. in arid mountain steppe communities.	Found on coarse-textured soils on sloping ground with an overstory of yucca, pinyon pine, juniper & big sage.
Earthquake Merriam's kangaroo rat	None	None		Known only from San Diego & Riverside Co. Associated with riversidean sage scrub, chaparral, & non-native grassland.	Need sandy loam substrates for digging of burrows.
short-nosed kangaroo rat	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN- Vulnerable	Western side of San Joaquin Valley in grassland and desert shrub associations, especially Atriplex.	Occures in highly alkaline soils around Soda Lake. Needs friable soils. Favors flat to gently sloping terrain.
Dulzura pocket mouse	None	None	DFG-Species of Special Concern	Variety of habitats including coastal scrub, chaparral & grassland in San Diego Co.	Attracted to grass-chaparral edges.
northwestern San Diego pocket mouse	None	None	DFG-Species of Special Concern	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	None	None	DFG-Species of Special Concern	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.
Salinas harvest mouse	None	None		Known only from the Monterey Bay region.	Occurs in fresh and brackish water wetlands and probably in the adjacent uplands around the mouth of the Salinas River.
Tulare grasshopper mouse	None	None	BLM-Sensitive; DFG-Species of Special Concern	Hot, arid valleys and scrub deserts in the southern San Joaquin Valley.	Diet almost exclusively composed of arthropods, therefore needs abundant supply of insects.
southern grasshopper mouse	None	None	DFG-Species of Special Concern	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.
Yuma hispid cotton rat	None	None	DFG-Species of Special Concern	Along the Colorado River and in grass & agricultural areas near irrigation waters.	Wetlands & uplands with dense grass & herbaceous plants. Makes runways through vegetation. Nests on surface & in burrows.
Colorado Valley woodrat	None	None		Low-lying desert areas in southeastern California. Closely associated with beaver-tail cactus & mesquite.	Intolerant of cold temps. Eats mainly succulent plants. Distribution influenced by abundance of nest building material
San Diego desert woodrat	None	None	DFG-Species of Special Concern	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.
San Francisco dusky-footed woodrat	None	None	DFG-Species of Special Concern	Forest habitats of moderate canopy & moderate to dense understory. May prefer chaparral & redwood habitats.	Constructs nests of shredded grass, leaves & other material. May be limited by availability of nest-building materials.
Mohave river vole	None	None	DFG-Species of Special Concern	Occurs only in weedy herbaceous growth in wet areas along the Mojave River. May be found in some irrigated pastures.	Burrows into soft soil. Feeds on leafy parts of grasses, sedges and herbs. Clips grasses to form runways from burrow.

Table J-1. List of Animal Species Considered in this SEIR

	Federal	Calif listing			
Common name	listing status	status	Other Status	General Habitat	Micro Habitat
Owens Valley vole	None	None	BLM-Sensitive; DFG-Species of Special Concern	Found in wetlands and lush grassy ground in the Owens Valley.	Needs friable soil for burrowing. Eats grasses, sedges & herbs. Clips grass to make runways leading from burrows.
San Pablo vole	None	None	DFG-Species of Special Concern	Saltmarshes of San Pablo Creek, on the south shore of San Pablo Bay.	Constructs burrow in soft soil. Feeds on grasses, sedges and herbs. Forms a network of runways leading from the burrow
south coast marsh vole	None	None	DFG-Species of Special Concern	Tidal marshes in Los Angeles, Orange and southern Ventura counties.	
white-footed vole	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Mature coastal forests in Humboldt & Del Norte cos. Prefers areas near small, clear streams with dense alder & shrubs.	Occupies the habitat from the ground surface to the canopy. Feeds in all layers & nests on the ground under logs or rock
Sonoma tree vole	None	None	DFG-Species of Special Concern; IUCN-Near Threatened	North coast fog belt from Oregon border to Somona Co. In Douglas- fir, redwood & montane hardwood-conifer forests.	Feeds almost exclusively on Douglas-fir needles. Will occasionaly take needles of grand fir, hemlock or spruce.
Point Reyes jumping mouse	None	None	DFG-Species of Special Concern	Primarily in bunch grass marshes on the uplands of Point Reyes. Also present in coastal scrub, grassland, and meadows.	Eats mainly grass seeds w/ some insects & fruit taken. Builds grassy nests on ground under vegetation, burrows in winter
American (=pine) marten	None	None	IUCN-Least Concern; USFS- Sensitive	Mixed evergreen forests with more than 40% crown closure along North Coast & Sierra Nevada, Klamath & Cascade mtns.	Needs variety of different-aged stands, particularly old-growth conifers & snags which provide cavities for dens/nests.
Humboldt marten	None	None	DFG-Species of Special Concern; USFS-Sensitive	Occurs only in the coastal redwood zone from the Oregon border south to Sonoma County.	Associated with late-successional coniferous forests, prefer forests with low, overhead cover.
Sierra marten	None	None	USFS-Sensitive	Mixed evergreen forests with more than 40% crown closure along Sierra Nevada & Cascade mtns.	Needs variety of different-aged stands, particularly old-growth conifers & snags which provide cavities for dens/nests.
American badger	None	None	DFG-Species of Special Concern; IUCN-Least Concern	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	Needs sufficient food, friable soils & open, uncultivated ground. Preys on burrowing rodents. Digs burrows.
southwestern river otter	None	None	DFG-Species of Special Concern	Aquatic habitats along the Colorado River.	Needs abundant food sources and sufficient water for shelter and foraging.
Yuma mountain lion	None	None	DFG-Species of Special Concern	Low elevations in the Colorado River Valley of California.	Live in dense bottomland vegetation, also found in adjacent, rocky uplands.
Nelson's bighorn sheep	None	None	BLM-Sensitive; USFS-Sensitive	Widely distributed from the White Mtns in Mono Co. to the Chocolate Mts in Imperial Co.	Open, rocky, steep areas with available water and herbaceous forage.
western pond turtle	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN- Vulnerable; USFS-Sensitive	A thoroughly aquatic turtle of ponds, marshes, rivers, streams & irrigation ditches with aquatic vegetation below 6000 ft elevation.	Need basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.
Panamint alligator lizard	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN- Vulnerable; USFS-Sensitive	Found in the White & Inyo Mtns to the north & west, & the Panamint Mtns to the south & east; 2800-6800 ft elev.	Inhabits areas near permanent water, in canyons, damp gullies, and rocky areas near dense vegetation.
black legless lizard	None	None	DFG-Species of Special Concern; USFS-Sensitive	Sand dunes and sandy soils in the Monterey Bay and Morro Bay regions.	Inhabit sandy soil/dune areas with bush lupine and mock heather as dominant plants. Moist soil is essential.
silvery legless lizard	None	None	DFG-Species of Special Concern; USFS-Sensitive BLM-Sensitive; DFG-Species of	Sandy or loose loamy soils under sparse vegetation.	Soil moisture is essential. they prefer soils with a high moisture content.
banded gila monster	None	None	Special Concern; IUCN-Near Threatened	Inhabits the lower slopes of rocky canyons and arroyos, but is also found on desert flats among scrub and succulents.	Eggs are laid in soil in excavated nests; thus, soil must be sandy or friable. Found in areas moister than surroundings.
flat-tailed horned lizard	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN-Near Threatened	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; requires vegetative cover and ants.
coast horned lizard	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN-Least Concern; USFS-Sensitive	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Open areas for sunning, bushes for cover, patches of loose soil for burial, & abundant supply of ants & other insects.

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
northern sagebrush lizard	None	None	BLM-Sensitive	Ground dweller, usually found near bushes, brush heaps, logs, or rocks.	Needs good light, open ground, & scattered low bushes.
Mojave fringe-toed lizard	None	None	BLM-Sensitive; DFG-Species of Special Concern; IUCN-Least Concern	Fine, loose, wind-blown sand in sand dunes, dry lakebeds, riverbanks, desert washes, sparse alkali scrub & desert scrub.	Shrubs or annual plants may be necessary for arthropods found in the diet.
Coronado Island skink	None	None	BLM-Sensitive; DFG-Species of Special Concern	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.
orangethroat whiptail	None	None	DFG-Species of Special Concern; IUCN-Least Concern	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 whiptail	None	None		Found in deserts & semiarid areas with sparse vegetation and open areas. Also found in woodland & riparian areas.	Ground may be firm soil, sandy, or rocky.
rosy boa	None	None	IUCN-Least Concern; USFS- Sensitive	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
San Bernardino ringneck snake	None	None	USFS-Sensitive	Most common in open, relatively rocky areas. Often in somewhat moist microhabitats near intermittent streams.	Avoids moving through open or barren areas by restricting movements to areas of surface litter or herbaceous veg.
California mountain kingsnake (San Bernardino po	None	None	DFG-Species of Special Concern; IUCN-Least Concern; USFS-Sensitive	Bigcone spruce & chaparral at lower elev. Black oak, incense cedar, Jeffrey pine & ponderosa pine at higher elevations.	Well-lit canyons with rocky outcrops or rocky talus.
Califonia mountain kingsnake (San Diego populati	None	None	DFG-Species of Special Concern; IUCN-Least Concern; USFS-Sensitive	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.
San Joaquin whipsnake	None	None	DFG-Species of Special Concern	Open, dry habitats with little or no tree cover. Found in valley grassland & saltbush scrub in the San Joaquin Valley.	Needs mammal burrows for refuge and oviposition sites.
coast patch-nosed snake	None	None	DFG-Species of Special Concern	Brushy or shrubby vegetation in coastal Southern California.	Require small mammal burrows for refuge and overwintering sites.
south coast garter snake	None	None	DFG-Species of Special Concern BLM-Sensitive; DFG-Species of	Southern California coastal plain from Ventura Co. to San Diego Co., and from sea level to about 850 m.	Marsh & upland habitats near permanent water with good strips of riparian vegetation.
two-striped garter snake	None	None	Special Concern; IUCN-Least Concern; USFS-Sensitive	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.
red-diamond rattlesnake	None	None	DFG-Species of Special Concern	Chaparrral, 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.
Mono brine shrimp	None	None	IUCN-Conservation Dependent	Endemic to Mono Lake, located in the Great Basin Desert of Mono County.	Mono Lake is permanent, clear-water, carbonate-rich, saline lake with 96- ppt TDS, and a pH around 10; temp 4-24 deg C.
pocket pouch fairy shrimp	None	None		In California it is found in Soda Lake, Carrizo Plains. Active only in El Nino years.	Very salt tolerant
midvalley fairy shrimp	None	None		Vernal pools in the Central Valley.	
California linderiella	None	None	IUCN-Near Threatened	Seasonal pools in unplowed grasslands with old alluvial soils underlain by hardpan or in sandstone depressions.	Water in the pools has very low alkalinity, conductivity, and TDS.
Santa Rosa Plateau fairy shrimp	None	None		Found only in the vernal pools on Santa Rosa Plateau in Riverside County.	Southern basalt flow vernal pools.
hairy water flea	None	None		Vernal pools. In California, known only from Mather Field.	

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
	Nama	Name		To adoptive	
Sequoia cave isopod	None	None		Troglophilic.	Collected in caves, and also near outlet of Big Spring by overturning rocks.
Tomales isopod	None	None		Inhabits localized fresh-water ponds or streams with still or near-still water in several Bay Area counties.	
Grady's Cave amphipod	None	None	IUCN-Vulnerable	Known only from Central California.	Mostly found in caves, but one collection from a spring.
Hara's Cave amphipod	None	None	IUCN-Vulnerable	Central California foothills.	Mostly found in caves & mine tunnels. Also taken from a spring
Wengerors' Cave amphipod	None	None	IUCN-Vulnerable	Known only from two caves in Mariposa County.	Subterranean groundwater habitats.
			TO C. Y VAIN OI ADIO	Known from Lake, Napa, Marin, Santa Cruz and Santa Clara	outermand, ground ator morator
An isopod	None	None		counties.	
An isopod	None	None		Spring	
western tidal-flat tiger beetle	None	None		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	None	None		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.
western beach tiger beetle	None	None		Mudflats and beaches in coastal Southern California.	
senile tiger beetle	None	None		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.
greenest tiger beetle	None	None		Inhabits the woodlands adjacent to the Santa Ana River basin.	Usually found in open spots between trees.
greenest ager becate		110.10		innable the weedlands adjacent to the canal and a title back.	Codding found in open open serves.
San Joaquin tiger beetle	None	None		Known only from Tulare and Kings counties.	
Carlson's dune beetle	None	None		Known primarily from creosote scrub in vicinity of Algodones Dunes, Imperial Co. Also taken from Borrego, San Diego Co.	Host preferences unknown.
curved-foot hygrotus diving beetle	None	None		Aquatic; known only from Alameda & Contra Costa counties.	
travertine band-thigh diving beetle	None	None		Aquatic; occurs in the run-off pools from hot springs in a limestone outcrop.	
J J · · · · ·					Inhabit sand slipfaces among bamboo and willow but may not depend on
Sacramento anthicid beetle	None	None	IUCN-Endangered	Restricted to sand dune areas.	presence of these plant species.
Antioch Dunes anthicid beetle	None	None		Extirpated from Antioch Dunes but present in several localities along the Sacramento and Feather rivers.	
globose dune beetle	None	None	IUCN-Vulnerable	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.
San Joaquin dune beetle	None	None	BLM-Sensitive; IUCN-Vulnerable	Inhabits fossil dunes along the western edge of San Joaquin Valley; extirpated from Antioch Dunes (type locality).	Inhabits sites containing sandy substrates.

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Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
Hopping's blister beetle	None	None		Inhabits the foothills at the southern end of the Central Valley.	
moestan blister beetle	None	None		Central California.	
molestan blister beetle	None	None		Inhabits the Central Valley of California, from Contra Costa to Kern and Tulare counties.	
Morrison's blister beetle	None	None		Inhabitant of the southern Central Valley of California.	
Nelson's miloderes weevil	None	None		Eureka Valley	
Lange's El Segundo Dune weevil	None	None		Known from El Segundo Dunes.	
brown tassel trigonoscuta weevil	None	None		Known only from the Kelso Dunes, San Bernardino County.	
Dorothy's El Segundo Dune weevil	None	None		Coastal sand dunes in Los Angeles County.	
Doyen's trigonoscuta dune weevil	None	None		Species is restricted to one dune in the Los Medanos area, south of Kettleman Station in Kings County.	Found on an open "slip-face covering about 200 square meters of a modified, vegetated relict dune.
Death Valley agabus diving beetle	None	None		Known only from Carson Slough which drains Ash Meadows; 2200 ft elev.	Appears to inhabit either the very edges or the extreme depths.
wooly hydroporus diving beetle	None	None		Aquatic.	Known only from Mt. Goethe, Fresno County. Species may be restricted to high elevations.
Leech's skyline diving beetle	None	None		Aquatic.	
simple hydroporus diving beetle	None	None		Known from aquatic habitats in Tuolumne and San Bernardino counties.	
Wawona riffle beetle	None	None		Aquatic; found in riffles of rapid, small to medium clear mountain streams; 2000-5000 ft elev.	Strong preferce for inhabiting submerged aquatic mosses
brownish dubiraphian riffle beetle	None	None		Aquatic; known only from the NE shore of Clear Lake, Lake County.	Inhabits exposed, wave-washed willow roots.
Giuliani's dubiraphian riffle beetle	None	None		Aquatic; found in the slow part of the Russian River.	Inhabits rocks and vegetation.
Pinnacles optioservus riffle beetle	None	None		Aquatic.	Found on rocks and in gravel of riffles in cool, swift, clear streams.
Wilbur Springs minute moss beetle	None	None		Aquatic; known only from Wilbur Hot Springs area, Colusa County; 1250 ft elev.	Inhabits the shoreline of the creek at Wilbur Hot Springs.
Leech's chaetarthrian water scavenger beetle	None	None		Aquatic; known only from Hayfork Creek, Trinity County.	
Ricksecker's water scavenger beetle	None	None		Aquatic.	

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Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
None	None	BLM-Sensitive; IUCN-Vulnerable	Known only from Fresno County in sandy substrates.	
None	None		Known only from the Kelso Dunes.	
None	None		Inhabit coastal sand dunes of San Luis Obispo County, in the vicinity of Dune Lakes.	Found hovering close to the surface of the dunes near the lake, but some distance from the surf.
None	None		Inhabits coastal sand dunes from Sonoma County south to San Mateo County.	Usually flies close to sand surface near the crest of the dunes.
None	None		Known only from sand dunes in San Luis Obispo County.	
None	None		Halophytic species. Larva, pupae & adults found in moist, salt- encrusted soil in the Amargosa River system.	Larvae taken at roots of Distichlis divaricata.
None	None		Restricted to the Klamath Mountain system of northwestern California. May extend into Oregon.	
None	None		Restricted to the Klamath Mountain system in northwestern California and southwestern Oregon.	
None	None		Restricted to the canyon of the South Fork American River.	
None	None		Found in and along the old canal on W side of Algodones Dunes, Imperial County.	Found on flowers of Tiquilia plicata during the hottest part of the day in June and July.
None	None		Larvae develop in Sargent cypress. Restricted to Napa, Colusa, and Lake counties.	
None	None		Breeds in shaded-out lower branches of Sargent cypress and perhaps McNab cypress in serpentine soil/cypress habitats.	
None	None		Presumed extinct but recently discovered on Malaga Dunes, Los Angeles County.	Perched dunes.
None	None		Known only from Contra Costa and Fresno counties.	
None	None		Known only from Antioch (Dunes?) and Fresno.	
None	None		Endemic to Wilbur Hot Springs, Colusa County.	Inhabits all but the hottest portion of the hot spring effluent; water temp 20- 40 deg C.
None	None	IUCN-Vulnerable		
				Found only on wet substrate of spring outflows.
			Known only from Saratoga Spring in Death Valley, San Bernardino	Inhabits the hot spring pool and inlet/outlet channels; have been collected year-round.
	None None None None None None None None	Iisting status None None	Iisting status	None None BLM-Sensitive; IUCN-Vulnerable Known only from Fresno County in sandy substrates. None None None Known only from the Kelso Dunes. None None None Inhabit coastal sand dunes of San Luis Obispo County, in the vicinity of Dune Lakes. None None None Inhabits coastal sand dunes from Sonoma County south to San Mateo County. None None None Known only from sand dunes in San Luis Obispo County. None None None Known only from sand dunes in San Luis Obispo County. Halophytic species. Larva, pupae & adults found in moist, salt-encusted soil in the Amargosa River system. Restricted to the Klamath Mountain system of northwestern California. May extend into Oregon. None None Restricted to the Klamath Mountain system in northwestern California and southwestern Oregon. None None Restricted to the Canyon of the South Fork American River. Found in and along the old canal on W side of Algodones Dunes, Imperial County. Larvae develop in Sargent cypress. Restricted to Napa, Colusa, and Lake counties. None None None Breeds in shaded-out lower branches of Sargent cypress and perhaps McNab cypress in seprentine soli/cypress habitats. Presumed extinct but recently discovered on Malaga Dunes, Los Angeles County. None None None Endemic to Wilbur Hot Springs, Colusa County. None None None IUCN-Vulnerable Inhabits coastal sand dunes of Southern California. None None None Requires springs/creeks with high concentrations of Na, Cl, & Li. Known only from Saratoga Spring in Death Valley, San Bernardino

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
Dry Creek cliff strider bug	None	None		Known only from Dry Creek in Fresno County.	Found in cracks & crevices of a sheer rocky cliff moistened by seeping water and under debris at the base of the cliff.
Amargosa naucorid bug	None	None		Endemic to the Amargosa River drainage in Death Valley, Inyo County, and San Bernardino County.	
Antioch andrenid bee	None	None		Known only from Antioch Dunes and Oakley.	Visits flowers of Eriogonum, Gutierrezia californica, Heterotheca grandiflora, Lessingia glandulifera.
redheaded sphecid wasp	None	None		Central California interior dunes.	Nest in hard-packed sand utilizing abandoned halictine bee burrows.
Antioch specid wasp	None	None		Previously known only from Antioch Dunes, in Contra Costa Co. Now known only from the inland sandhills in Santa Cruz Co.	,
Stage's dufourine bee	None	None		Species is a ground-nesting bee.	
Stage's dulourine bee	None	None		openies is a ground-nesting bee.	
Blennosperma vernal pool andrenid bee	None	None		This bee is oligolectic on vernal pool blennosperma.	Bees nest in the uplands around vernal pools.
An andrenid bee	None	None		This bee is oligolectic on morning-opening, yellow-flowered spp of Camissonia.	Nests in deep, sandy soil; the only species in the subgenus Diandrena with aggregated nests associated with depressions.
A vernal pool andrenid bee	None	None		Collects pollen primarily from Arenaria californica but also Orthocarpus erianthus & Lasthenia sp.	Nests in uplands near vernal pools.
Borax Lake cuckoo wasp	None	None		Endemic to Central California. Only collection is from the type locality.	External parasite of wasp and bee larva.
Bradley's cuckoo wasp	None	None			
Piute Mountains cuckoo wasp	None	None		Known only from the holotype female.	
A cuckoo wasp	None	None			
Menke's cuckoo wasp	None	None			
Tulare cuckoo wasp	None	None			
Borrego parnopes cuckoo wasp	None	None			
A mellitid bee	None	None		Desert regions of SW Arizona, SE California, and Baja California, Mexico. Also collected from Torrey Pines, San Diego Co	Earlier records of M. wilmattae pertain to this species; species was synonymized with M. californica in 1981.
haromonius halictid bee	None	None	XERCES-Critically Imperiled	Known only from the foothills of the San Bernardino Mts., possibly also the San Jacinto Mts.	
Wasbauer's protodufourea bee	None	None	XERCES-Data Deficient	Chaparral and desert scrub.	Nests in the ground. Oligolectic on Emmenanthe sp., a plant that blooms in profusion after fires, then declines.
Antioch Dunes halcitid bee	None	None	XERCES-Critically Imperiled	Restricted to Antioch Dunes.	Host plant is Oenothera deltoides howellii. This bee nests in the ground in stabilized sand dunes in open, xeric areas.

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
A leaf-cutter bee	None	None			
a cuckoo bee	None	None			
Roberts' rhopalolemma bee	None	None		Known only from the type locality 8 km south of Twentynine Palms.	
Opler's longhorn moth	None	None		From Marin Co & the Oakland area on the inner coast ranges south to Santa Clara Co. One record from Santa Cruz Co.	All but Santa Cruz site is on serpentine grassland. Larve feed on Platystemon californicus.
Oso Flaco flightless moth	None	None		Open, coastal sand dune slopes in San Luis Obispo County.	Larvae live in tubes attached to buried, green parts of plants at the margin of the active, moving sand dunes.
Henne's eucosman moth	None	None		Endemic to the El Segundo Dunes (type locality), Los Angeles County.	Larval foodplant is Phacelia ramosissima var austrolitoralis; larvae can be found on woody stems and upper root parts.
Sonoma arctic skipper	None	None		Redwood forest.	Most specimens collected in deep shade or at the edge of forested clearings.
White Mountains skipper	None	None		Above the timberline (above 10,500 ft) in the White Mountains.	Scree slopes just off of summits & grassy saddles between high ridges & summits. Oviposition on Festuca brachyphylla.
wandering (=saltmarsh) skipper	None	None	IUCN-Near Threatened	Southern California coastal salt marshes.	Requires moist saltgrass for larval development.
Andrew's marble butterfly	None	None		Inhabits yellow pine forest near Lake Arrowhead and Big Bear Lake, San Bernardino Mtns, San Bernardino Co, 5000-6000 ft.	Hostplants are Streptanthus bernardinus & Arabis holboellii var pinetorum; larval foodplant is Descurainia richardsonii.
Hermes copper butterfly	None	None	IUCN-Vulnerable	Found in southern mixed chaparral & coastal sage scrub at western edge of Laguna Mountains.	Host plant is Rhamnus crocea. Although R. crocea is widespread throughout the coast range, Lycaena hermes is not.
Thorne's hairstreak	None	None	BLM-Sensitive	Associated with the endemic tecate cypress (Cupressus forbesii).	Only known from vicinity of Otay Mountain.
Marin elfin butterfly	None	None		Found only in the redwood forest areas of Marin County.	Larvae collected and reared on Sedum spathulifolium
Comstock's blue butterfly	None	None		Hostplant is Eriogonum sp.	
Boharts' blue butterfly	None	None		Known from the foothills of the southern Sierra Nevada, near Briceburg, Mariposa County.	Associated with Chorizanthe membranacea.
San Gabriel Mountains blue butterfly	None	None		Type locality is a wet meadow seep in yellow pine forest.	Foodplant is Trifolium wormskioldii.
White Mountains saepiolus blue butterfly	None	None		Primarily alpine fell-fields, but also wet meadows and along streams at high elevations (>2800 m) in the White Mountains	Principal hostplant is Trifolium andersonii.
	None	None		Found in desert canyons and along riverbeds on the southernmost edge of the San Joaquin Valley.	Hostplant is Atriplex canescens; maybe Lotus purshianus also.
San Emigdio blue butterfly	None	None		Inhabits stabilized dunes & adjacent areas of coastal San Luis Obispo & NW Santa Barbara counties.	
Morro Bay blue butterfly Point Reves blue butterfly	None	None		·	Larval foodplant thought to be Lupinus chamissonis. Stabilized sand dunes with the common bush Lupinus arboreus & L. variicolor. L. variicolor is the likely foodplant.

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Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
White Mountains icarioides blue butterfly	None	None		Found in the White Mountains of the California-Nevada border.	
Carson Valley silverspot	None	None		Wet meadows along the eastern base of the Carson Range from southern Washoe Co. Nevada to northern Alpine Co. California	Occurs as isolated colonies.
Oso Flaco patch butterfly	None	None		Sand dune habitat around Oso Flaco Lake, San Luis Obispo County.	Distribution corresponds to its foodplant, Castilleja affinis.
Mono checkerspot butterfly	None	None			
Yontocket satyr	None	None		Coastal dunes north of Crescent City in Del Norte County.	Grassy areas among dunes with coniferous lee slopes & grassy exposed slopes, also dunes around sphagnum bogs
monarch butterfly	None	None		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.
gold rush hanging scorpionfly	None	None		Known only from a small area on the western slopes of the central Sierra Nevada	Darkly shaded crannies w/ high humidity, i.e. under tree roots, in overhanging banks, below rock outcrops, along streams
cheeseweed owlfly (cheeseweed moth lacewing)	None	None		Inhabits the lower Colorado River drainage.	Found under rocks or in flight over streams. Larrea tridentata is the suspected larval host.
San Francisco forktail damselfly	None	None	IUCN-Vulnerable	Endemic to the San Francisco Bay area.	Small, marshy ponds and ditches with emergent and floating aquatic vegetation.
desert monkey grasshopper	None	None	IUCN-Vulnerable	Occurs in very arid environments in the vicinity of the San Bernardino Mtns.	Known to occur on chamise (Adenostoma fasciculatum).
Kelso giant sand treader cricket	None	None	IUCN-Vulnerable	Known only from the Kelso Dunes, San Bernardino County; 2500 ft elev.	Found on bare, hard-packed sand ridges, 0.5 mile inland from margin.
Coachella giant sand treader cricket	None	None	IUCN-Vulnerable	Known from the sand dune ridges in the vicinity of Coachella Valley.	Population size regulated by amount of annual rainfall; some spots favor permanent habitation where springs dampen sand.
Kelso jerusalem cricket	None	None	IUCN-Vulnerable	Inhabits a limited area of the Kelso Dunes (type locality), San Bernardino County.	Found at the north base of a sand declivity, 15-25 ft high; assoc plants: sandpaper weed, croton, sand dune grass.
Coachella Valley jerusalem cricket	None	None	IUCN-Vulnerable	Inhabits a small segment of the sand and dune areas of the Coachella Valley, in the vicinity of Palm Springs.	Found in the large, undulating dunes piled up at the north base of Mt San Jacinto.
Sierra pygmy grasshopper	None	None	IUCN-Vulnerable	Known only from Madera and Mariposa counties.	
Middlekauff's shieldback katydid	None	None	IUCN-Critically Endangered	Known only from Antioch Dunes.	
Lake Tahoe benthic stonefly	None	None		Endemic to Lake Tahoe. Found at depths of 95-400 ft.	Associated with deepwater plant communities of algae, mosses & liverworts.
Shirttail Creek stonefly	None	None		Stenothermic and found in spring-like areas.	
,				Known only an intermittent tributary of the Cosumnes River in El	
Cosumnes spring stonefly	None	None		Dorado County.	
Cold Spring caddisfly	None	None		Only known from cold springs in the vicinity of Sagehen Creek.	

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
Sagehen Creek goeracean caddisfly	None	None		Found in relatively warm springs. Known from several sites in Nevada Co. & perhaps also from Mt. Tamalpais in Marin Co.	
Kings Canyon cryptochian caddisfly	None	None		Narrowly distributed in cold springs in the Sierra Nevada.	Restricted to spring stream and source.
Denning's cryptic caddisfly	None	None		Larvae found in small, cool streams.	
confusion caddisfly	None	None		Creeks.	
Kings Creek ecclysomyian caddisfly	None	None		Narrowly distributed in springs in the Sierra Nevada & Cascades.	
long-tailed caddisfly	None	None		Cold water streams fed by springs in the Sierra Nevada.	
Fort Dick limnephilus caddisfly	None	None		Known only from Fort Dick in Del Norte County.	
golden-horned caddisfly	None	None		Small streams in the Sierra.	Larger population numbers downstream from the source and in more open areas.
Castle Crags rhyacophilan caddisfly	None	None		Creeks.	
bilobed rhyacophilan caddisfly	None	None		Known only from Castle Crags State Park, Shasta County.	
spiny rhyacophilan caddisfly	None	None		Rhyacophilids generally prefer cool, running water.	
California diplectronan caddisfly	None	None			
amphibious caddisfly	None	None		Mostly small first order streams in open, wet meadows. Also found in beaver ponds & second order streams.	Final instar larvae leave the water at night to feed on riparian vegetation & return to water at sunrise.
Edgewood blind harvestman	None	None		Open grassland in areas of serpentine bedrock.	Found on the underside of moist serpentine rocks near permanent springs.
Melones Cave harvestman	None	None	IUCN-Vulnerable	Limestone caves in the vicinity of New Melones Reservoir on the Stanislaus River, Calaveras/Tuolumne counties.	Cave temps range from 14-16 deg C; humidity, from 82-97%. Found under rocks or wandering on floor or walls.
Galile's cave harvestman	None	None		Known only from the type locality, lime rock caves, El Dorado County.	Species is troglobitic.
Grubbs' cave harvestman	None	None		Known only from the type locality, Black Chasm Cave, Volcano, Amador County.	Species is troglobitic.
Martins' cave harvestman	None	None		Known only from the type locality, Heater Cave, 8 km north of Columbia.	Species is troglobitic.
Rudolph's cave harvestman	None	None		Known only from the type locality, Chrome Cave, Pardee Reservoir, Amador County.	Species is troglobitic.
Tuolumne cave harvestman	None	None		Known only from the type locality, Tuolumne Crystal Cave, Tuolumne, Tuolumne County.	Species is troglobitic.

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
King Tut Cave harvestman	None	None		Known only from the type locality, King Tut Cave, Calaveras County.	Species is troubhitic
King fut Cave naivesiman	IVOIIC	None		Information the type locality, raing rut dave, dalayeras dounty.	This species is an orb-weaver and occurs from the cave mouth into deep
Dolloff Cave spider	None	None	IUCN-Vulnerable	Known from caves in the Santa Cruz area.	twilight.
Grubbs' Cave pseudoscorpion	None	None			
Hom's micro-blind harvestman	None	None		Known only from Santa Clara County in xeric habitats.	Known only from serpentine rocks in grassland habitats.
Moody's gnaphosid spider	None	None		Serpentine endemic.	
Arroyo Seco short-tailed whipscorpion	None	None		Known only from the type locality, Arroyo Seco, Monterey County.	
Briggs' leptonetid spider	None	None		Known only from the type locality, Indian Valley Creek Cave, and nearby Butter Creek Cave, Trinity County.	Troglobitic species.
Ubick's leptonetid spider	None	None		Known only from the type locality, Arroyo Seco, Monterey County.	
Mendocino leptonetid spider	None	None		Known only from the type locality, Elk, and nearby sites in Mendocino County.	
Gertsch's socalchemmis spider	None	None		Known from only 2 localities in Los Angeles County: Brentwood (type locality) and Topanga Canyon.	
Monterey socalchemmis spider	None	None		Known from only two localities in Monterey Co.: Los Padres NF; Arroyo Seco (type locality) and Cone Peak Trail.	
San Benito harvestman	None	None		Known only from the type locality, Panoche Road, San Benito County.	Found on serpentine rocks
Stanislaus harvestman	None	None		Known only from the type locality, 1.6 km south of Knight's Ferry, Stanislaus County.	Found under basalt rocks in grassland.
Crane Flat harvestman	None	None		Known only from Crane Flat Junction, Tuolumne County. Known only from the holotype male and two female paratypes.	Found under fallen bark in a mixed coniferous forest.
marbled harvestman	None	None		Known only from the type locality, 14.5 km (9 miles) SE of Academy, Fresno Co. Known only from the type series.	Serpentine endemic.
Table Mountain harvestman	None	None		Known only from the type locality, Table Mountain, Fresno Co. Known only from the type series.	
				Known only from the type locality, 2.6 km SW of Piedra, Fresno	
Piedra harvestman	None	None		County. Known only from the type series.	Found under unspecified type of rocks.
Clough Cave harvestman	None	None		Known only from the type locality, Clough Cave.	
California floater	None	None	USFS-Sensitive	Freshwater lakes and slow-moving streams and rivers. Taxonomy under review by specialists.	Generally in shallow water.
western ridged mussel	None	None		Primarily creeks & rivers & less often lakes. Originally in most of state, now extirpated from Central & Southern Calif.	

Table J-1. List of Animal Species Considered in this SEIR

C	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
Common name	nating status	Status	Other Status	General Habitat	micro Habitat
western pearlshell	None	None		Aquatic.	Prefers lower velocity waters.
Para Para Para Para Para Para Para Para				Occurs mostly in the Shasta-Trinity National forests in the northern	All known occurrences are near streams or in draws (intermittent stream
hooded lancetooth	None	None	BLM-Sensitive	half of Trinity County. Associated with limestone substrates, mostly in an elevation range of 1680960 meters.	channel). Needs permanent dampness. Late successional conditions provide suitable habitat conditions.
Trinity Spot	None	None		Uncommon localized species with a disjunct range divided between the Klamath Mountains & Sierra Nevada.	In moist leaf litter in forests, and in more areas, along streams or near seeps, springs, bogs & swamps.
	None	Name			
leaden slug	None	None			
Shasta chaparral	None	None	USFS-Sensitive	Found within 100 meters of limestone outcroppings and talus slopes with some protective shade, or caves with shrubs or oak cover.	
·				Occurs primarily under riparian vegetation (alders, maples), which	Inhabits leaf litter, wood debris, or soil & sand containing stones/pieces of
Karok hesperian	None	None	IUCN-Data Deficient	provide shading from sunlight and a moist substrate.	wood; often found in large aggregations.
Shasta hesperian	None	None	USFS-Sensitive	Primarily found in the vicinity of Shasta Lake, up to 915 meters elevation.	Moist bottom lands such as riparian areas, springs, seeps, marshes, and in the mouths of caves.
Siskiyou hesperian	None	None		Found under logs in a swampy meadow in Siskiyou County (Roth, 1972).	
Marin hesperian	None	None		Found in moist spots in coastal brushfield and chaparral vegetation in Marin County.	Under leaves of cow-parship, around spring seeps, in leafmold along streams, in alder woods & mixed evergreen forest.
Big Bar hesperian	None	None	BLM-Sensitive; USFS-Sensitive	Only found in Trinity County, within the boundaries of Shasta-Trinity National Forest.	Found in confier or hardwood forests in permanently damp areas within 200 meters of stable streams, seeps, and springs.
tight coin (=Yates' snail)	None	None	IUCN-Vulnerable	Inhabits limestone caves and outcroppings; favors north-facing slopes.	Found in humus in limestone outcroppings.
					In moist leaf litter & under rotting logs on streambanks. Associated with
Natural Bridge megomphix	None	None		Forested areas.	perennial seeps and springs.
Morongo (=Colorado) desertsnail	None	None	IUCN-Near Threatened	Known only from a gulch on the N side of Morongo Pass (type locality), San Bernardino County, near Riverside County line	Found under rocks.
Baker's desertsnail	None	None	IUCN-Data Deficient	Inhabits N slope of a small range of limestone hills, 0.5 miles south of Baker, San Bernardino County.	Found in rockslides.
California Mccoy snail	None	None	IUCN-Data Deficient	Found in various sites in the McCoy Mtns and the Big Maria Mtns.	Inhabits rockslides in gullies.
Merced Canyon shoulderband	None	None	IUCN-Vulnerable	Merced River Canyon, 3-6 miles below El Portal; 150 ft elev.	Inhabits rockslides
Pomo bronze shoulderband	None	None	IUCN-Data Deficient	Found near the coast in heavily-timbered redwood canyons of Mendocino County.	Found under redwoods.
i one profize strougerpand	110116	THORE	TOON Data Delicient	monadono ddarty.	Touris under reamous.
mountain shoulderband	None	None		Known only from the King Range in Humboldt County.	Found in talus slopes.
Kern shoulderband	None	None	IUCN-Endangered	Known only from Tulare and Kern counties, along the lower Kern River Canyon.	Has been collected from dead vegetation along the water's edge.
					Found wherever permanent ground cover/moisture is available. Somewhat
Oregon shoulderband	None	None	BLM-Sensitive	Found on basaltic talus slopes; partial riparian associate.	adapted to dry conditions during a portion of the year.

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Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
Victorville shoulderband	None	None	IUCN-Near Threatened	Known only from along the Mojave River in San Bernardino County.	Found among granite boulders and at the base of rocky cliffs.
					,
Bridges' coast range shoulderband	None	None	IUCN-Data Deficient	Inhabits open hillsides of Alameda and Contra Costa counties.	Tends to colonize under tall grasses and weeds.
redwood shoulderband	None	None	IUCN-Data Deficient	Known only from south slope of San Juan Grade, near Foot, 8 miles NW of Salinas.	
mesa shoulderband	None	None	IUCN-Vulnerable	Known only from a few locations in coastal San Diego County.	Found in rock slides, beneath bark and rotten logs, and among coastal vegetation.
Trinity shoulderband	None	None	BLM-Sensitive	Limestone rockslides, litter in coniferous forests, old mine tailings, and along shaded streams in the Klamath Mountains	
westfork shoulderband	None	None		Vicinity of the Mojave River.	Under logs and leaves.
Ten Mile shoulderband	None	None		Found in coastal dunes, coastal scrub, and riparian redwood forest habitats.	
Warner Springs shoulderband	None	None			Found in wood rat nests; as development eliminates rat nests, snail has become scarce.
Klamath sideband	None	None		Lives mostly in limestone outcrops, caves, talus slides, and lava rockslides, but also occurs under forest debris in heavy shade on wooded hillsides.	
keeled sideband	None	None	BLM-Sensitive; IUCN-Vulnerable	Endemic to the Tuolumne River canyon, in association with steep limestone outcrops and talus slopes.	Occurs in limestone where fractures or loose talus allow deep, sub-surface sheltering.
A terrestrial snail	None	None		Old growth and riparian associate; local endemic.	Dead alder leaves and trunks near a stream, in relatively undisturbed forest.
yellow-based sideband	None	None		Old growth and riparian associate. Not collected since the early 1960s.	Found on leaves, sticks, concrete wall of irrigation ditch and mossy boulders and stones.
Button's Sierra sideband	None	None		Known from the central Sierra Nevada counties.	
hirsute Sierra sideband	None	None	BLM-Sensitive	Known only from a few basaltic outcrops in Tuolumne County.	
Shasta sideband	None	None	IUCN-Data Deficient; USFS- Sensitive	Associated with limestone terrain in Shasta and Siskiyou counties. Associated with pine-oak woodlands.	
Tuolumne sideband	None	None	BLM-Sensitive	Endemic to the Tuolumne River canyon, in association with steep limestone outcrops and talus slopes.	Occurs in limestone where fractures or loose talus allow deep, sub-surface sheltering.
downy sideband	None	None		Old growth and riparian associate.	Found among rocks and leaf litter along forested streambanks.
crested sideband	None	None		Old growth and riparian associate. Lower reaches of major drainages. Found in talus and rock slides,	
Siskiyou shoulderband	None	None	BLM-Sensitive	under rocks and woody debris in moist conifer forests, caves, and riparian corridors in shrubby areas.	Rocks and woody debris serve as refugia during the summer.
canary duskysnail	None	None		Limnocrenes & hyporheic streams in the Pit River basin.	Most abundant on the undersides of cobbles and boulders in shallow to moderate depths.

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
Common name	noung otatao	Status	Other Status	Originally from near mouth of the Sacramento River upstream into	or Habitat
nugget pebblesnail	None	None	USFS-Sensitive	the Pit River. Now extirpated from the Sacramento River	
Archimedes pyrg	None	None		Springs and streams in the Pit and Klamath Basins.	Snails typically found on mud substrate.
Benton Valley (=Aahrdahl's) springsnail	None	None			Common in dense watercress in uppermost portion of outflow of small, highly degraded spring.
Fish Slough springsnail	None	None		Found in three of the four main springs in Fish Slough.	Found only in small vestiges of rheocrene habitat at small orifices in NW springs & at start of outflow of NE springs.
Wong's springsnail	None	None	USFS-Sensitive	Owens Valley. Along east side from Pine Cr to Little Lake & along west side from French Spring to Marble Creek.	Seeps and small-moderate size spring-fed streams. Common in watercress and/or on small bits of travertine & stone.
Willow Creek pyrg	None	None		Upper reaches of Willow Creek and an associated warm nasmode in the upper Pit River basin.	Snails found in warm (22 C) nasmode and in cooler Willow Creek. Snails more abundant in Willow Creek.
Ash Valley pyrg	None	None		Cold springs associated with upper Ash Creek, Ash Valley, upper Pit River basin.	Helocrenes.
Likely pyrg	None	None		Restricted to two closely adjacent springs along the south fork Pit River.	
Sucker Springs pyrg	None	None		Endemic to a single site in the Pit River basin.	Found in a large, cold spring outflow with slow to moderate current.
Diablo Range pyrg	None	None		Found in unnamed creek in Del Puerto Canyon.	Stream is poorly shaded and slightly disturbed from pastoral and recreational acitivities.
Smoke Creek pyrg	None	None		Springs & spring brooks within the Great Basin of northeastern California.	
Surprise Valley pyrg	None	None		Found in springs in the Great Basin of northeastern California.	
San Luis Obispo pyrg	None	None		Freshwater habitats in San Luis Obispo County.	
mimic tryonia (=California brackishwater snail)	None	None	IUCN-Data Deficient	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.
Grapevine Springs elongate tryonia	None	None			
Grapevine Springs squat tryonia	None	None		Endemic to springs in the Amargosa River basin	
robust walker	None	None		Freshwater.	
topaz juga	None	None	USFS-Sensitive	Cold, well-oxygenated, unpolluted water, generally with stable gravel substrate.	
scalloped juga	None	None	USFS-Sensitive		
Chace juga	None	None		Small permanent streams at low to middle elevations in the Smith River drainage.	Generally on gravel substrate, always in cold, clear, highly oxygenated, unpolluted, running water.

Table J-1. List of Animal Species Considered in this SEIR

Common name	Federal listing status	Calif listing status	Other Status	General Habitat	Micro Habitat
redwood juga	None	None			Small spring-fed permament rivulets to creeks, often on gravel, always in unpolluted, clear, cold, running water.
kneecap lanx	None	None		Endemic to upper Sacramento River system. Breath entirely through mantle, & are very sensitive to polluted water.	Prefers fast, cold, well-oxygenated water and cobble-boulder substrate.
Great Basin rams-horn	None	None	USFS-Sensitive	Larger lakes & slow rivers, including larger spring sources & spring- fed creeks.	Snails burrow in soft mud.
Badwater snail	None	None	IUCN-Vulnerable		Occurs either under a salt-crust roof fringing the water's edge or on moistened vegetation; often found fully submerged.
pristine pyrg	None	None		Found in small springs.	
Yosemite Mariposa sideband	None	None		Known only from Yosemite Valley along the Merced River, Mariposa County.	Known to inhabit rockslides.

		Federal listing	Calif listing		Other		
Scientific Name	Common name	status	status	CNPS List	Status	General Habitat	Micro-Habitat
Orcuttia californica	California Orcutt grass	Endangered	Endangered	1B.1		Vernal pools.	15-660m.
Orcuttia pilosa	hairy Orcutt grass	Endangered	Endangered	1B.1		Vernal pools.	25-125m.
Orcuttia viscida	Sacramento Orcutt grass	Endangered	Endangered	1B.1		Vernal pools.	30-100m.
Tuctoria mucronata	Crampton's tuctoria or Solano grass	Endangered	Endangered	1B.1		Vernal pools, valley and foothill grassland.	Clay bottoms of drying vernal pools and lakes in valley grassland. 5-10m.
	<u> </u>	, , ,	, and the second				Dry beds of vernal pools and moist swales w/Eryngium
Pogogyne nudiuscula	Otay Mesa mint	Endangered	Endangered	1B.1		Vernal pools.	aristulatum var parishii and Orcuttia californica. 85-250m.
Pseudobahia bahiifolia		F-4	F-dd	1B.1		Valley and foothill grassland, cismontane woodland.	Clay soils, predominantly on the northern slopes of knolls, but also along shady creeks or near vernal pools. 15-150m.
r seudobania baninona	Hartweg's golden sunburst	Liluarigereu	Endangered	10.1		cismontane woodiand.	also along shady creeks of flear vernal pools. 15-150ff.
Sidalcea oregana ssp. valida	Kenwood Marsh checkerbloom	Endangered	Endangered	1B.1		Marshes and swamps.	Edges of freshwater marshes. 115-150m.
-		_	_				
Nitrophila mohavensis	Amargosa nitrophila	Endangered	Endangered	1B.1		Alkali playa, meadows and seeps.	Heavy alkaline mudflats, and saltgrass meadows. 425-750m.
						Manada wa and a sana walloward	Adaint allusting and according to the second
Poa napensis	Napa blue grass	Endangered	Endangered	1B.1		Meadows and seeps, valley and foothill grassland.	Moist alkaline meadows fed by runoff from nearby hot springs. 100-125m.
Lasthenia burkei	Burke's goldfields	Endangered	Endangered	1B.1		Vernal pools, meadows and seeps.	Most often in vernal pools and swales. 15-580m.
						Vernal pools, coastal scrub, valley	San Diego mesa hardpan & claypan vernal pools & southern
Eryngium aristulatum var. parishii	San Diego button-celery	Endangered	Endangered	1B.1		and foothill grassland.	interior basalt flow vernal pools; usu surr by scrub. 15-620m. Swales, wet meadows and marshy areas in valley oak
Limnanthes vinculans	Sebastopol meadowfoam	Endangered	Endangered	1B.1		Mesic meadows, vernal pools, valley and foothill grassland.	savanna; on poorly drained soils of clays and sandy loam. 15- 115m.
Blennosperma bakeri	Sonoma sunshine	Endangered	Endangered	1B.1		Vernal pools, valley and foothill grassland.	Vernal pools and swales. 10-100m.
		, ,					Vernal pools within grasslands, chamise chaparral or coastal
Pogogyne abramsii	San Diego mesa mint	Endangered	Endangered	1B.1		Vernal pools.	sage scrub communities; w/other rare plants. 90-200m.
Eryngium constancei	Loch Lomond button- celery	Endangered	Endangered	1B.1		Vernal pools.	Volcanic ash flow vernal pools. 625-855m.
						Freshwater marsh, bogs and fens,	
Carex albida	white sedge	Endangered	Endangered	1B.1		meadows and seeps.	Wet meadows and marshes. 35-55m.
					USFS-		Growing up through dense mats of Typha, Juncus, Scirpus,
Arenaria paludicola	marsh sandwort	Endangered	Endangered	1B.1	Sensitive	Marshes and swamps.	etc. in freshwater marsh. 10-170m.
Thelypodium stenopetalum	slender-petaled thelypodium	Endangered	Endangered	1B.1	USFS- Sensitive	Meadows and seens, nebble plains	Seasonally moist alkaline clay soils; associated with seeps and springs in the pebble plains. 1900-2245m.
merypoulum stenopetalum	therypodium	Liluarigereu	Lituarigered	ID.1	Sensitive	inicadows and seeps, peoble plants.	springs in the peoble plants. 1900-224-011.
Sidalcea pedata	bird-foot checkerbloom	Endangered	Endangered	1B.1	USFS- Sensitive	Meadows and seeps, pebble plains.	Vernally mesic sites in meadows or pebble plains. 1600- 2500m.
	Butte County				USFS-	Vernal pools, valley and foothill	Wet or flowing drainages & depressions; often not in discrete
Limnanthes floccosa ssp. californica	meadowfoam	Endangered	Endangered	1B.1	Sensitive	grassland.	vernal pools; soils are usu Redding clay w/rocks. 50-930m.
Navarretia leucocephala ssp. plieantha	many-flowered navarretia	Endangered	Endangered	1B.2		Vernal pools.	Volcanic ash flow vernal pools. 30-950m.
						Coastal bluff scrub, closed-cone coniferous forest, meadows and	Freshwater marshes, seeps, and small streams in open or
Potentilla hickmanii	Hickman's cinquefoil	Endangered	Endangered	1B.1		seeps, marshes and swamps.	forested areas along the coast. 5-125m.
Lilium pardalinum ssp. pitkinense	Pitkin Marsh lily	Endangered	Endangered	1B.1		Cismontane woodland, meadows and seeps, freshwater marsh.	Saturated, sandy soils w/ grasses and shrubs. 35-65m.
						Coastal scrub, freshwater marsh, bogs and fens, coastal bluff scrub, coastal prairie, No. Coast	Well-drained, old beach washes overlain w/wind-blown
Lilium occidentale	western lily	Endangered	Endangered	1B.1		coastal prairie, No. Coast coniferous forest.	alluvium & org. topsoil; usu near margins of Sitka spruce. 2- 185m.
Sedella leiocarpa	Lake County stonecrop	Endangered	Endangered	1B.1		Valley and foothill grassland, vernal pools, cismontane woodland.	Level areas that are seasonally wet and dry out in late spring; substrate usually of volcanic origin. 365-790m.
Alopecurus aequalis var. sonomensis	Sonoma alopecurus	Endangered	None	1B.1		Freshwater marshes and swamps, riparian scrub.	Wet areas, marshes, and riparian banks with other wetland species. 5-360m.
Atriplex coronata var. notatior	San Jacinto Valley crownscale	Endangered	None	1B.1		Playas, chenopod scrub, valley and foothill grassland, vernal pools.	Dry, alkaline flats in the San Jacinto River Valley. 400-500m.
A Mary Control at a Val. Hotaloi	S. S. FII SOURC	Lindangered		.0.1		Valley and foothill grassland, vernal	27, amalife facts in the ball bacilito raver valley. 400-500III.
						pools, cismontane woodland. Extirpated from most of its range;	Vernal pools, swales, low depressions, in open grassy areas.
Lasthenia conjugens	Contra Costa goldfields	Endangered	None	1B.1		extrem. endangered.	1-445m.

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Taraxacum californicum	California dandelion	Endangered	None	1B.1	USFS- Sensitive	Meadows and seeps.	Mesic meadows, usually free of taller vegetation. 1620- 2800m.
Taraxacum camomicum	California dandellon	Endangered	None	IB.I	USFS-	ivieadows and seeps.	Mesic meadows of open pine forests and grassy slopes, loamy
Poa atropurpurea	San Bernardino blue grass	Endangered	None	1B.2	Sensitive USFS-	Meadows and seeps. Vernal pools, valley and foothill	alluvial to sandy loam soil. 1350-2455m.
Tuctoria greenei	Greene's tuctoria	Endangered	Rare	1B.1	Sensitive	grassland.	Dry bottoms of vernal pools in open grasslands. 30-1065m.
Navarretia leucocephala ssp. pauciflora	few-flowered navarretia	Endangered	Threatened	1B.1		Vernal pools.	Volcanic ash flow, and volc substrate vernal pools. 400-855m.
Nasturtium gambelii	Gambel's water cress	Endangered	Threatened	1B.1	USFS- Sensitive	Marshes and swamps.	Freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. 5-1305m.
Cirsium loncholepis	La Graciosa thistle	Endangered	Threatened	1B.1	USFS- Sensitive	Coastal dunes, brackish marshes, riparian scrub.	Lake edges, riverbanks, other wetlands; often in dune areas. 5-185m.
Plagiobothrys strictus	Calistoga popcorn-flower	Endangered	Threatened	1B.1		Broadleafed upland forest, meadows and seeps, valley and foothill grassland, vernal pools.	Alkaline sites near thermal springs and on margins of vernal pools in heavy, dark, adobe-like clay. 90-160m.
Brodiaea filifolia	thread-leaved brodiaea	Threatened	Endangered	1B.1	USFS- Sensitive	Cismontane woodland, coastal scrub, playas, valley and foothill grassland, vernal pools.	Usually associated with annual grassland and vernal pools; often surr by shrubland habitats. Clay soils. 25-860m.
Orcuttia inaequalis	San Joaquin Valley Orcutt grass	Threatened	Endangered	1B.1		Vernal pools.	30-755m.
Neostapfia colusana	Colusa grass	Threatened	Endangered	1B.1		Vernal pools.	Usually in large, or deep vernal pool bottoms; adobe soils. 5-110m.
Orcuttia tenuis	slender Orcutt grass	Threatened	Endangered	1B.1	USFS- Sensitive	Vernal pools.	30-1735m.
Castilleja campestris ssp. succulenta	succulent owl's-clover	Threatened	Endangered	1B.2		Vernal pools, valley and foothill grassland.	Moist places, often in acidic soils. 25-750m. Sandy beaches, on lakeside margins and in riparian
Rorippa subumbellata	Tahoe yellow cress	Candidate	Endangered	1B.1	USFS- Sensitive	Lower montane coniferous forest, meadows and seeps.	communities; on decomposed granite sand. 1885- 1900(2395)m.
Downingia concolor var. brevior	Cuyamaca Lake downingia	None	Endangered	1B.1		Meadows (mesic), vernal pools.	In vernal seeps, lakes and pools, and on mudflats, with Orthocarpus, Limnanthes, Collinsia. 1400-1500m.
Eryngium racemosum	Delta button-celery	None	Endangered	1B.1		Riparian scrub.	Seasonally inundated floodplain on clay. 3-75m.
Sidalcea stipularis	Scadden Flat checkerbloom	None	Endangered	1B.1		Marshes and swamps.	Wet montane marshes fed by springs. 700-740m.
Sidalcea covillei	Owens Valley checkerbloom	None	Endangered	1B.1	BLM- Sensitive	Meadows and seeps, Great Basin scrub.	Moist alkaline meadows & freshwater seeps, fine sandy loam soil, one occurrence in stoney calcareous soil. 1090-1415m.
Dichanthelium lanuginosum var. thermale	Geysers dichanthelium	None	Endangered	1B.1	BLM- Sensitive	Closed-cone coniferous forest, riparian forest, valley and foothill grassland.	Usually around moist, warm soil in the vicinity of hot springs. 445-815m.
Pogogyne clareana	Santa Lucia mint	None	Endangered	1B.2		Riparian woodland.	Tributaries of the Nacimiento River, in moist sandy soil. 300-490m.
Limnanthes douglasii ssp. sulphurea	Point Reyes meadowfoam	None	Endangered	1B.2		Fresh. marsh, vernal pools, coastal prairie, meadows & seeps, cismontane woodland.	Vernally wet depressions in open rolling, coastal prairies & meadows; typically in dark clay soil. 10-120m.
Gratiola heterosepala	Boggs Lake hedge-hyssop	None	Endangered	1B.2	BLM- Sensitive	Marshes and swamps (freshwater), vernal pools.	Clay soils; usually in vernal pools, sometimes on lake margins. 5-2400m.
Limnanthes gracilis ssp. parishii	Parish's meadowfoam	None	Endangered	1B.2	BLM- Sensitive; USFS- Sensitive	Meadows and seeps, vernal pools.	Vernally moist areas and temporary seeps of highland meadows and plateaus; often bordering lakes and streams. 600-1760m.
Deinandra mohavensis	Mojave tarplant	None	Endangered	1B.3	BLM- Sensitive; USFS- Sensitive	Riparian scrub, chaparral.	Low sand bars in river bed; mostly in riparian areas or in ephemeral grassy areas. 850-1600m.
Navarretia fossalis	spreading navarretia	Threatened	None	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.
Astragalus lentiginosus var. piscinensis	Fish Slough milk-vetch	Threatened	None	1B.1		Meadows, playas.	Usually found on mounds in alkali meadows with sparse vegetative cover. 1120-1300m.
Grindelia fraxinipratensis	Ash Meadows gumplant	Threatened	None	1B.2		Meadows, chenopod scrub.	Saline clay soil, esp in depressions and in saturated soils next to standing water. 630-700m.

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Chamaesyce hooveri	Hoover's spurge	Threatened	None	1B.2		Vernal pools, valley and foothill grassland.	Vernal pools on volcanic mudflow or clay substrate. 25-130m.
Howellia aquatilis	water howellia	Threatened	None	2.2	USFS- Sensitive	Freshwater marshes and swamps, lower montane coniferous forest.	vernar pools with other aquatics and surrounded by ponderosa pine forest and sometimes riparian associates. 3-1375m
Pleuropogon hooverianus	North Coast semaphore grass	None	Threatened	1B.1	BLM- Sensitive	Broadleafed upland forest, meadows and seeps, North Coast coniferous forest.	Wet grassy, usually shady areas, sometimes freshwater marsh; associated with forest environments; 10-1150m.
Abronia alpina	Ramshaw Meadows abronia	Candidate	None	1B.1	USFS- Sensitive	Meadows and seeps.	Gravelly margins of meadows; in gravel and sand with Hulsea and Lupinus. 2400-2700m. [Occurs only in Ramshaw and Templeton meadows of Tulare County]
Potentilla basaltica	Black Rock potentilla	Candidate	None	1B.3	BLM- Sensitive	Meadows and seeps.	Alkaline, sandy, volcanic soils. 1530-1555m.
Lilaeopsis masonii	Mason's lilaeopsis	None	Rare	1B.1		Freshwater and brackish marshes, riparian scrub.	Tidal zones, in muddy or silty soil formed through river deposition or river bank erosion. 0-10m.
Limnanthes bakeri	Baker's meadowfoam	None	Rare	1B.1	BLM- Sensitive	Freshwater marsh, valley and foothill grassland, meadows and seeps, vernal pools.	Seasonally moist or saturated sites w/in grassland; also in swales, roadside ditches & margins of marshy areas. 175-910m
Sanicula maritima	adobe sanicle	None	Rare	1B.1	USFS- Sensitive	Meadows and seeps, valley and foothill grassland, chaparral, coastal prairie.	Moist clay or ultramafic soils. 30-240m.
Bensoniella oregona	bensoniella	None	Rare	1B.1	USFS- Sensitive	Bogs and fens, lower montane coniferous forest, meadows.	Wet meadows and openings in forest. 935-1400m.
Delphinium hesperium ssp. cuyamacae	Cuvamaca larksnur	None	Rare	1B.2	BLM- Sensitive; USFS- Sensitive	Lower montane coniferous forest, meadows.	On dried edge of grassy meadows, also described as in mesic sites. 1210-1630m.
Lupinus padre-crowleyi	Father Crowley's lupine	None	Rare	1B.2	USFS- Sensitive	Great Basin scrub, riparian scrub, riparian forest, upper montane coniferous forest.	Scattered on steep avalanche chutes, in sunny sites in drainages, & in valley bottoms; decomposed granite. 2500-4000m.
Eryngium aristulatum var. hooveri	Hoover's button-celery	None	None	1B.1		Vernal pools.	Alkaline depressions, vernal pools, roadside ditches and other wet places near the coast. 5-45m.
Navarretia myersii ssp. myersii	pincushion navarretia	None	None	1B.1		Vernal pools, valley and foothill grassland.	Clay soils within nonnative grassland. 20-330m.
Juglans hindsii	Northern California black walnut	None	None	1B.1		Riparian forest, riparian woodland. Few extant native stands remain; widely naturalized.	Deep alluvial soil associated with a creek or stream. 0-395m.
Centromadia parryi ssp. australis	southern tarplant	None	None	1B.1		Marshes and swamps (margins), valley and foothill grassland.	Often in disturbed sites near the coast at marsh edges; also in alkaline soils sometimes with saltgrass. Sometimes on vernal pool margins. 0-425m.
Plagiobothrys hystriculus	bearded popcorn-flower	None	None	1B.1		Vernal pools, valley and foothill grassland.	Wet sites. 10-50m.
Geothallus tuberosus	Campbell's liverwort	None	None	1B.1		Coastal scrub, vernal pools. most suitable habitat lost to urbanization.	
Centromadia pungens ssp. laevis	smooth tarplant	None	None	1B.1		Valley and foothill grassland, chenopod scrub, meadows, playas, riparian woodland.	Alkali meadow, alkali scrub; also in disturbed places. 0-480m.
Navarretia prostrata	prostrate vernal pool navarretia	None	None	1B.1		Coastal scrub, valley and foothill grassland, vernal pools.	Alkaline soils in grassland, or in vernal pools. Mesic, alkaline sites. 15-700m.
Juncus digitatus	finger rush	None	None	1B.1		Cismontane woodland (openings), lower montane coniferous forest (openings), vernal pools.	In full sun, in the vernally damp ground of seeps, vernal pools and swales on gentle slopes over volcanic bedrock. 600-800m.
Fritillaria lanceolata var. tristulis	Marin checker lily	None	None	1B.1		Coastal bluff scrub, coastal scrub, coastal prairie.	Occurrences reported from canyons and riparian areas as well as rock outcrops; often on serpentine. 30-300m.
Orthocarpus pachystachyus	Shasta orthocarpus	None	None	1B.1	BLM- Sensitive	Great Basin scrub, meadows and seeps (?), valley and foothill grassland.	Alluvial plains, hillsides. 830-995m.
Physicanors californics	California beaked-rush	None	None	1D 1	BLM-	Bogs and fens, marshes and swamps, lower montane coniferous	Erophyster scane and once mereby erope 45 1000m
Rhynchospora californica		None	None	1B.1 1B.1	Sensitive BLM- Sensitive	forest, meadows and seeps. Vernal pools. Many historical occurrences are extirpated.	Freshwater seeps and open marshy areas. 45-1000m. In beds of vernal pools. 1-880m.
Legenere limosa	legenere Horn's milk-vetch	None	None		BLM-		
Astragalus hornii var. hornii Puccinellia howellii	Horn's milk-vetch Howell's alkali grass	None None	None	1B.1 1B.1	Sensitive BLM- Sensitive	Meadows and seeps, playas. Meadows and seeps.	Lake margins, alkaline sites. 60-850m. Mineralized soils around mineral springs and seeps. One site known: 485m.
r docinenta nowenii	i ioweii s aikali grass	INOTIE	INUITE	ID.I	Jenslive	ичеация ани seeps.	NIUWII. 703III.
Cirsium crassicaule	slough thistle	None	None	1B.1	BLM- Sensitive	Chenopod scrub, marshes and swamps, riparian scrub.	Sloughs, riverbanks, and marshy areas. 3-100m.
Paronychia ahartii	Ahart's paronychia	None	None	1B.1	BLM- Sensitive		Stony, nearly barren clay of swales and higher ground around vernal pools. 30-510m.
Cordylanthus mollis ssp. hispidus	hispid bird's-beak	None	None	1B.1	BLM- Sensitive		In damp alkaline soils, especially in alkaline meadows and alkali sinks with Distichlis. 10-155m.

Scientific Name	Common name	Federal listing status	Calif listing status	CNPS List	Other Status	General Habitat	Micro-Habitat
	Caultada aaldialda	Nana	Name	4D.4	BLM-		Usually found on alkaline soils in playas, sinks, and
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	None	None	1B.1	Sensitive	and foothill grassland, vernal pools. Cismontane woodland, meadows	grassianus. 1-1400m.
Navarretia leucocephala ssp. bakeri	Baker's navarretia	None	None	1B.1	BLM- Sensitive	and seeps, vernal pools, valley and foothill grassland, lower montane coniferous forest.	Vernal pools and swales; adobe or alkaline soils. 5-950m.
Polygonum polygaloides ssp.					BLM- Sensitive; USFS-	Great Basin scrub, vernal pools, lower montane coniferous forest,	Edges of seasonal lakes and ponds with Deschampsia,
esotericum	Modoc County knotweed	None	None	1B.1	Sensitive	meadows and seeps.	Navarretia, etc. 1480-1690m.
				ļ. <u>.</u> .	BLM- Sensitive; USFS-		Mesic, clay habitats; sometimes serpentine; usu in vernal pools
Brodiaea orcuttii	Orcutt's brodiaea	None	None	1B.1	Sensitive USFS-	chaparral, meadows. Lower montane coniferous forest,	and small drainages. 30-1615m.
Ivesia aperta var. canina	Dog Valley ivesia	None	None	1B.1	Sensitive USFS-	meadows. Alkali meadows, vernal pools,	Shallow rocky soil of volcanic origin. 1600-2000m.
Atriplex parishii	Parish's brittlescale	None	None	1B.1	Sensitive	chenopod scrub, playas. Lower montane coniferous forest,	Usually on drying alkali flats with fine soils. 4-140m.
Plagiobothrys torreyi var. torreyi	Yosemite popcorn-flower	None	None	1B.2		meadows and seeps.	1200-1370m.
Deinandra bacigalupii	Livermore tarplant	None	None	1B.2		Meadows and seeps.	Alkaline meadows. 150-185m.
Atriplex persistens	vernal pool smallscale	None	None	1B.2		Vernal pools.	Alkaline vernal pools. 10-115m.
Sidalcea calycosa ssp. rhizomata	Point Reyes checkerbloom	None	None	1B.2		Marshes and swamps.	Freshwater marshes near the coast. 5-75(245)m.
Astragalus tener var. tener	alkali milk-vetch	None	None	1B.2		Alkali playa, valley and foothill grassland, vernal pools.	Low ground, alkali flats, and flooded lands; in annual grassland or in playas or vernal pools. 1-170m.
Platanthera yosemitensis	Yosemite bog orchid	None	None	1B.2		Meadows and seeps.	Mesic areas. Granite substrates. 2100-2285m.
Trifolium depauperatum var. hydrophilum	saline clover	None	None	1B.2		Marshes and swamps, valley and foothill grassland, vernal pools.	Mesic, alkaline sites. 0-300m.
Symphyotrichum lentum	Suisun Marsh aster	None	None	1B.2		Marshes and swamps (brackish and freshwater).	Most often seen along sloughs with Phragmites, Scirpus, blackberry, Typha, etc. 0-3m.
Lathyrus jepsonii var. jepsonii	Delta tule pea	None	None	1B.2		Freshwater and brackish marshes.	Often found w/ Typha, Aster lentus, Rosa calif., Juncus spp., Scirpus, etc. Usually on marsh and slough edges.
Juncus leiospermus var. ahartii	Ahart's dwarf rush	None	None	1B.2		Vernal pools.	Restricted to the edges of vernal pools. 30-100m.
Eryngium spinosepalum	spiny-sepaled button- celery	None	None	1B.2		Vernal pools, valley and foothill grassland.	Some sites on clay soil of granitic origin; vernal pools, within grassland. 100-420m.
				1B.2		Meadows and seeps, upper	
Cinna bolanderi	Bolander's woodreed	None	None			montane coniferous forest. Vernal pools, meadows, lower montane coniferous forest,	Streamsides and other mesic areas. 1670-2440m. Vernal pools, ephemeral drainages, wet meadow habitats and
Juncus luciensis	Santa Lucia dwarf rush	None	None	1B.2		chaparral, Great Basin scrub. Vernal pools, cismontane woodland, lower montane	streamsides. 300-2040m. Volcanic soils; vernal pools and mesic sites within other natural
Eryngium pinnatisectum	Tuolumne button-celery	None	None	1B.2		coniferous forest. Meadows and seeps, riparian	communties. 250-450m.
Sidalcea oregana ssp. hydrophila	marsh checkerbloom	None	None	1B.2		forest.	Wet soil of streambanks, meadows. 545-2300m. Grassland, and sometimes vernal pool edges. Alkaline soils.
Lepidium latipes var. heckardii	Heckard's pepper-grass	None	None	1B.2		pools.	3-30m.
Atriplex joaquiniana	San Joaquin spearscale	None	None	1B.2		Chenopod scrub, alkali meadow, valley and foothill grassland. Chenopod scrub, meadows, playas,	In seasonal alkali wetlands or alkali sink scrub with Distichlis spicata, Frankenia, etc. 1-250m.
Atriplex depressa	brittlescale	None	None	1B.2		valley and foothill grassland, vernal pools.	Usually in alkali scalds or alk. clay in meadows or annual grassInd; rarely assoc w/riparian, marshes, or V.P's. 1-320m.
Malacothamnus davidsonii	Davidson's bush-mallow	None	None	1B.2		Coastal scrub, riparian woodland, chaparral.	Sandy washes. 180-855m.
					BLM- Sensitive;	Cismontane woodland, valley foothill grassland, lower montane	
Cryptantha crinita	silky cryptantha	None	None	1B.2	USFS- Sensitive	coniferous forest, riparian forest, riparian woodland.	In gravelly stream beds. 85-220m.
Scutellaria bolanderi ssp. austromontana	southern mountains skullcap	None	None	1B.2	USFS- Sensitive	Chaparral, cismontane woodland, lower montane coniferous forest.	In gravelly soils on streambanks or in mesic sites in oak or pine woodland. 425-2000m.
					BLM-	Bogs and fens, closed-cone coniferous forest, coastal prairie, meadows, freshwater marsh, N	Bogs and marshes in a variety of habitats; uncommon where it
Campanula californica	swamp harebell	None	None	1B.2	Sensitive	Coast coniferous forest.	occurs. 1-405m.
Sagittaria sanfordii	Sanford's arrowhead	None	None	1B.2	BLM- Sensitive	Marshes and swamps.	In standing or slow-moving freshwater ponds, marshes, and ditches. 0-610m.

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					DI M	Meadows and seeps, North Coast	
Sidalcea oregana ssp. eximia	coast sidalcea	None	None	1B.2	BLM- Sensitive	coniferous forest, lower montane coniferous forest.	Nears meadows, in gravelly soil. 0-1800m.
					BLM-	Meadows (alkaline), chenopod	
Cordylanthus tecopensis	Tecopa bird's-beak	None	None	1B.2	Sensitive	scrub, Mojavean desert scrub.	Restricted to moist alkaline soils. 60-625m.
					BLM-	Meadows and seeps, chaparral,	
Carex klamathensis	Klamath sedge	None	None	1B.2	Sensitive	cismontane woodland.	Serpentine. 1000-1140m.
At Calls and Paralle			N	40.0	BLM-		In powdery, alkaline soils that are vernally moist with
Atriplex vallicola	Lost Hills crownscale	None	None	1B.2	Sensitive	grassland, vernal pools. Coastal prairie, meadows and	Frankenia, Atriplex spp. and Distichlis. 0-605m.
Centromadia parryi ssp. parryi	pappose tarplant	None	None	1B.2	BLM- Sensitive	seeps, coastal salt marsh, valley and foothill grassland.	Vernally mesic, often alkaline sites. 2-420m.
communication party.	pappass tampiani				BLM-	gg	
					Sensitive; USFS-	Alkali marshes, playas, vernal	
Polyctenium williamsiae	Williams' combleaf	None	None	1B.2	Sensitive BLM-	pools.	1350-2700m.
					Sensitive;		
Pyrrocoma lucida	sticky pyrrocoma	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest, meadows and seeps.	Alkaline flats, clay soils. 700-1880m.
					BLM-		·
					Sensitive; USFS-		
Phacelia inyoensis	Inyo phacelia	None	None	1B.2	Sensitive BLM-	Meadows and seeps.	Alkaline meadows. 1025-3200m.
					Sensitive;	Bogs and fens, meadows, lower	
Epilobium oreganum	Oregon fireweed	None	None	1B.2	USFS- Sensitive	montane coniferous forest, upper montane coniferous forest.	In and near springs and bogs; at least sometimes on serpentine. 500-2610m.
					BLM- Sensitive;		
					USFS-	Lower montane coniferous forest,	In summer-drying, hanging bogs on serpentine ledges. 800-
Ivesia pickeringii	Pickering's ivesia	None	None	1B.2	Sensitive BLM-	meadows.	1500m.
					Sensitive;	Marie de la constant	
Calochortus longebarbatus var. longebarbatus	long-haired star-tulip	None	None	1B.2	USFS- Sensitive	Meadows, lower montane coniferous forest.	In wet meadows or grassy areas along drainages within forest. Clay soils. 965-1900m.
					BLM- Sensitive;		
					USFS-	Great Basin scrub, meadows and	
Astragalus Iemmonii	Lemmon's milk-vetch	None	None	1B.2	Sensitive BLM-	seeps, marshes and swamps.	Lakeshores, meadows and seeps. 1280-2200m.
					Sensitive;		
Gentiana setigera	Mendocino gentian	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest, meadows.	Meadows, seeps and bogs. Usually or always on serpentine. 490-1065m.
					BLM- Sensitive;	Bogs and fens, meadows and	
					USFS-	seeps, upper montane coniferous	
Oreostemma elatum	tall alpine-aster	None	None	1B.2	Sensitive BLM-	forest.	Mesic sites. 1005-2100m.
					Sensitive;	Const Basis and basedown and	
Thelypodium howellii ssp. howellii	Howell's thelypodium	None	None	1B.2	USFS- Sensitive	Great Basin scrub, meadows and seeps.	Moist alkaline meadows. 1200-1830m.
					BLM- Sensitive;		
Maria de la compansión	yellow-lip pansy		N	40.0	USFS-	Lower montane coniferous forest,	Sandy decomposed granite soils and moist meadows; vernally
Mimulus pulchellus	monkeyflower	None	None	1B.2	Sensitive BLM-	meadows and seeps.	wet sites. 600-2000m.
					Sensitive; USFS-	Lower montane coniferous forest.	Shaded, north-facing, or sheltered canyons. Sometimes on
Neviusia cliftonii	Shasta snow-wreath	None	None	1B.2	Sensitive	riparian woodland.	limestone. Mesic areas. 300-500m.
					BLM- Sensitive;		
Raillardella pringlei	showy raillardella	None	None	1B.2	USFS- Sensitive	Bogs and fens, meadows and seeps.	Streambanks, wet meadows and bogs in areas of serpentinized rock. 1200-2200m.
Ivalilardella pririgiei	Showy railiardella	None	None	10.2	Sensitive	зеерз.	Serpenunized 100k. 1200-2200m.
					BLM-	Meadows and seeps, marshes and	
					Sensitive; USFS-	swamps, coastal scrub, cismontane woodland, lower montane	Vernally mesic grassland or near ditches, streams and
Symphyotrichum defoliatum	San Bernardino aster	None	None	1B.2	Sensitive	coniferous forest, grassland.	springs; disturbed areas. 2-2040m.
Mimulus purpureus	little purple monkeyflower	None	None	1B.2	USFS- Sensitive	Meadows and seeps, pebble plain, upper montane coniferous forest.	Dry clay or gravelly soils under Jeffrey pines, along annual streams or vernal springs & seeps. 1900-2300m.
Pyrrocoma uniflora var. gossypina	Bear Valley pyrrocoma	None	None	1B.2	USFS- Sensitive	Pebble plain, meadows and seeps.	Meadows, meadow edges, and along streams in or near pebble plain habitat. 1600-2300m.
	San Bernardino Mountains				USFS-	Meadows, pebble plain, upper montane coniferous forest,	Mesic to drying soils in open areas of stream and meadow
Castilleja lasiorhyncha	owl's-clover	None	None	1B.2	Sensitive	chaparral.	margins or of vernally wet areas. 1135-2390m.
					USFS-	Meadows and seeps, pebble plains.	Mesic, sometimes alkaline meadows, and dry rocky slopes.
Packera bernardina	San Bernardino ragwort	None	None	1B.2	Sensitive	upper montane coniferous forest.	1800-2300m.
						Meadows and seeps, lower	
Trifolium bolanderi	Bolander's clover	None	None	1B.2	USFS- Sensitive	montane coniferous forest, upper montane coniferous forest.	Moist mountain meadows. 2075-2300m.
Fissidens pauperculus	minute pocket moss	None	None	1B.2	USFS- Sensitive	North coast coniferous forest.	Moss growing on damp soil along the coast. 10-100m.
					USFS-	Subalpine meadows, upper	
Campanula wilkinsiana	Wilkins' harebell	None	None	1B.2	USFS- Sensitive	montane coniferous forest, subalpine coniferous forest.	Often on streambanks in meadows. 1515-2600m.

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Collomia rawsoniana	Rawson's flaming trumpet	None	None	1B.2	USFS- Sensitive	Riparian forest, lower montane coniferous forest.	On stabilized alluvium in riparian zones. 775-2060m.
					USFS-	Meadows and seeps (open and dry), lower montane coniferous	Open slopes, disturbed areas (road cuts), tan-colored, rocky
Erigeron maniopotamicus	Mad River fleabane daisy	None	None	1B.2	Sensitive	Lower montane coniferous forest, meadows and seeps, cismontane	soils. 1350-1500m.
Thermopsis californica var. semota	velvety false lupine	None	None	1B.2	USFS- Sensitive	woodland, valley and foothill grassland.	Pine forests and meadow edges, on rocky slopes and outcrops, and along roadsides. 1030-1870m.
Mimulus exiguus	San Bernardino Mountains monkeyflower	None	None	1B.2	USFS- Sensitive	Meadows and seeps, pebble plains, upper montane coniferous forest.	Seeps and sandy sometimes disturbed soil in moist drainages of annual streams; clay soils. 1800-2315m.
Viola primulifolia ssp. occidentalis	western white bog violet	None	None	1B.2	USFS- Sensitive	Bogs and fens, marshes and swamps.	Streamside flats and bogs; serpentine soils. 100-990m.
Calochortus palmeri var. palmeri	Palmer's mariposa-lily	None	None	1B.2	USFS- Sensitive	Meadows and seeps, chaparral, lower montane coniferous forest. Lower montane coniferous forest,	Vernally moist places in yellow-pine forest, chaparral. 600- 2245m.
Lilium parryi	lemon lily	None	None	1B.2	USFS- Sensitive	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.
Ellium parryi	icinon my	None	None	10.2	CCHSIGVC	Coastal prairie, coastal scrub,	270011.
Carex saliniformis	deceiving sedge	None	None	1B.2		meadows and seeps, marshes and swamps (coastal salt).	Mesic sites. 3-230m.
Sisyrinchium funereum	Death Valley blue-eyed grass	None	None	1B.3		Meadows and seeps.	Alkaline meadows. 40-915m.
Gentiana plurisetosa	Klamath gentian	None	None	1B.3		Meadows and seeps, upper montane coniferous forest, lower montane coniferous forest.	Meadows in red fir and yellow pine forests; mesic sites. 1200- 1900m.
Lotus oblongifolius var. cupreus	copper-flowered bird's-foot trefoil	None	None	1B.3		Meadows, upper montane coniferous forest (mesic).	Wet meadow borders. 2400-2600m.
Balsamorhiza sericea	silky balsamroot	None	None	1B.3	BLM- Sensitive	Lower montane coniferous forest, meadows.	Collections from Douglas-fir forest, meadow, and Jeffrey pine forest. Can be on serpentine. 1310-1735m.
Phacelia leonis	Siskiyou phacelia	None	None	1B.3	BLM- Sensitive	Upper montane coniferous forest, meadows and seeps.	Sandy, moist soil, sometimes on serpentine. 1200-1950m.
					BLM- Sensitive; USFS-	North Coast coniferous forest, broadleafed upland forest?, lower montane coniferous forest,	
Smilax jamesii	English Peak greenbriar	None	None	1B.3	Sensitive BLM- Sensitive;	marshes and swamps.	Along streams and lake margins. 665-1820m.
Heterotheca shevockii	Shevock's golden-aster	None	None	1B.3	USFS- Sensitive BLM-	Chaparral, cismontane woodland, riparian woodland.	Ditches, crevices, shallow sand. 230-900m.
Phacelia inundata	playa phacelia	None	None	1B.3	Sensitive; USFS- Sensitive	Great Basin scrub, lower montane coniferous forest, playas.	Dried edges of alkali lakes and sinks, inundated clay soils. 1330-2000m.
Eleocharis torticulmis	California twisted spikerush	None	None	1B.3	USFS- Sensitive	Bogs and fens, meadows and seeps, lower montane coniferous forest.	1005-1175m.
	San Bernardino grass-of-				USFS-	Lower montane coniferous forest, upper montane coniferous forest,	Mesic sites, streamsides, sometimes calcareous. 1250-
Parnassia cirrata var. cirrata	Parnassus	None	None	1B.3	Sensitive USFS-	meadows and seeps.	2440m.
Carex tiogana	Tioga Pass sedge	None	None	1B.3	Sensitive	Meadows.	On terraces next to lakes; mesic sites. 3090-3310m.
Atriplex pusilla	smooth saltbush	None	None	2		Great Basin scrub, meadows and seeps.	Known from hot springs, alkali springs. 1300-2000m.
Suksdorfia ranunculifolia	buttercup-leaf suksdorfia	None	None	2		Upper montane coniferous forest, meadows and seeps.	Mesic sites; rocky. 1500-2500m.
Hymenoxys odorata	bitter hymenoxys	None	None	2		Riparian scrub, Sonoran desert scrub.	Sandy sites. 45-150m.
Cicuta maculata var. bolanderi	Bolander's water-hemlock	None	None	2.1		Marshes, fresh or brackish water.	0-200m.
Mimulus glabratus ssp. utahensis	Utah monkeyflower	None	None	2.1		Meadows and seeps, pinyon and juniper woodland.	600-2000m.
Microseris borealis	northern microseris	None	None	2.1		Bogs and fens, meadows and seeps, lower montane coniferous forest.	940-2000m.
Saxifraga nuttallii	Nuttall's saxifrage	None	None	2.1		North Coast coniferous forest.	Cliff walls, moss-covered rocks along creeks; mesic sites. One site in California: 75m.
Rhynchospora globularis var. globularis	round-headed beaked- rush	None	None	2.1		Marshes and swamps.	Freshwater marsh. 45-60m.
Ranunculus hydrocharoides	frog's-bit buttercup	None	None	2.1		Marshes and swamps.	In or bordering shallow springs or freshwater marshes in the mountains. 1100-2000m.
Carex comosa	bristly sedge	None	None	2.1		Marshes and swamps.	Lake margins, wet places; site below sea level is on a Delta island5-1005m.
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						Meadows and seeps, valley and	
Taraxacum ceratophorum	horned dandelion	None	None	2.1		foothill grassland.	Mesic sites. 2895m.
Plagiobothrys nitens	shiny-nutlet popcorn-flower	None	None	2.1		Alkaline meadows.	Moise alkaline meadows, near springs. 1510-1600m.
Oxytropis deflexa var. sericea	blue pendent-pod oxytrope	None	None	2.1		Upper montane coniferous forest, meadows and seeps.	Moist meadows and turfy banks in the White Mountains. 2800- 3355m.
Trichocoronis wrightii var. wrightii	Wright's trichocoronis	None	None	2.1		Marshes and swamps, riparian forest, meadows and seeps, vernal pools.	Mud flats of vernal lakes, drying river beds, alkali meadows. 5- 435m.
Limosella subulata	Delta mudwort	None	None	2.1		Riparian scrub, freshwater marsh, brackish marsh. Probably the rarest of the suite of Delta rare plants.	Usually on mud banks of the Delta in marshy or scrubby riparian associations; often with Lilaeopsis masonii. 0-3m.
Enrosona subulata	Bolia madwort	Hone	None	2.1		pranto.	inpuliar associations, otten with Enacopsis masonii. 6 oin.
Carex hystericina	porcupine sedge	None	None	2.1		Marshes and swamps.	Wet places, such as stream edges. 610m.
Corallorhiza trifida	northern coralroot	None	None	2.1		Lower montane coniferous forest, meadows.	Wet, open to shaded, generally coniferous forest. In California, under firs, in partial shade. 1370-1700m.
Calamagrostis crassiglumis	Thurber's reed grass	None	None	2.1		Coastal scrub, freshwater marsh.	Usually in marshy swales surrounded by grassland or coastal scrub. 10-45m.
Malaxis monophyllos ssp. brachypoda	white bog adder's-mouth	None	None	2.1	USFS- Sensitive	Meadows and seeps, bogs and fens, upper montane coniferous forest.	Hillside bogs and mesic meadows. 2200-2700m.
			No		USFS-	Bogs and fens, marshes and	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Scheuchzeria palustris var. americana	American scheuchzeria	None	None	2.1	Sensitive	swamps. Coastal scrub, chaparral, riparian	Sphagnum bogs and on lake margins. 1360-2000m.
Imperata brevifolia	California satintail	None	None	2.1	USFS- Sensitive	scrub, mojavean scrub, meadows and seeps (alkali).	Mesic sites, alkali seeps, riparian areas. 0-500m.
Erythronium revolutum	coast fawn lily	None	None	2.2		Bogs and fens, broadleafed upland forest, North Coast coniferous forest.	0-1065m.
Juncus nevadensis var. inventus	Sierra rush	None	None	2.2		Bogs and fens.	0-10m.
Carex lyngbyei	Lyngbye's sedge	None	None	2.2		Marshes and swamps (brackish or freshwater).	Om.
Erythronium klamathense	Klamath fawn lily	None	None	2.2		Upper montane coniferous forest, meadows and seeps.	1200-1850m.
Carex atherodes	wheat sedge	None	None	2.2		Meadows and seeps, marshes and swamps, pinyon-juniper woodland.	1300-1400m.
Mertensia cusickii	Toiyabe bluebells	None	None	2.2		Great Basin scrub, meadows and seeps.	1495-2500m.
	beautiful sagebrush					Great Basin scrub, meadows and	
Mertensia oblongifolia var. amoena	bluebells	None	None	2.2		seeps. Marshes and swamps, bogs and	1630-2315m.
Juncus supiniformis	hair-leaved rush	None	None	2.2		fens. Meadows. Great Basin scrub. lower	20-100m.
Geum aleppicum	Aleppo avens	None	None	2.2		montane coniferous forest.	450-1515m.
Sidalcea neomexicana	Salt Spring checkerbloom	None	None	2.2		Alkali playas, brackish marshes, chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub.	Alkali springs and marshes. 0-1500m.
Atriplex argentea var. hillmanii	Hillman's silverscale	None	None	2.2		Great Basin scrub, meadows and seeps.	Alkaline meadows in scrub. 1200-1700m.
Thelypodium integrifolium ssp. complanatum	foxtail thelypodium	None	None	2.2		Great Basin scrub, meadows and seeps.	Alkaline or subalkaline soils; mesic sites. 1100-2500m.
Trientalis arctica	arctic starflower	None	None	2.2		Meadows and seeps, bogs and fens.	Coastal boggy areas. 0-15m.
Perideridia parishii ssp. parishii	Parish's yampah	None	None	2.2		Lower montane coniferous forest, meadows, upper montane coniferous forest.	Damp meadows or along streambeds-prefers an open pine canopy. 1390-3000m.
						Lower montane coniferous forest,	
Lewisia brachycalyx	short-sepaled lewisia	None	None	2.2		meadows.	Dry to moist meadows in rich loam. 1400-2300m.
Alisma gramineum	grass alisma	None	None	2.2		Marshes and swamps.	Freshwater marsh. 390-1800m.
Rhynchospora alba	white beaked-rush	None	None	2.2		Bogs and fens, marshes and swamps.	Freshwater marshes and sphagnum bogs. 60-2000m.
Cladium californicum	California saw-grass	None	None	2.2		Freshwater and alkali marshes, seeps.	Freshwater or alkaline moist habitats. 60-600m.
						Bogs and fens, lower montane coniferous forest, meadows, marshes and swamps, upper	In floating bogs and soggy meadows and edges of lakes.
Carex limosa	mud sedge	None	None	2.2		montane coniferous forest.	1200-2775m.

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						Great Basin scrub, meadows and	
Downingia laeta	Great Basin downingia	None	None	2.2		seeps, freshwater marshes, pinyon- juniper woodland, vernal pools.	In mesic sites or wetlands. 1220-2200m.
Nama stenocarpum	mud nama	None	None	2.2		Marshes and swamps. Bogs and fens, marshes and	Lake shores, river banks, intermittently wet areas. 5-500m.
Carex lenticularis var. limnophila	lagoon sedge	None	None	2.2		swamps, North Coast coniferous forest.	Lakeshores, beaches. 0-6m.
						Bogs and fens, meadows and	
Pinguicula macroceras	horned butterwort	None	None	2.2		seeps.	Meadow edges, seepage areas, serpentine soil. 20-1820m.
Utricularia intermedia	flat-leaved bladderwort	None	None	2.2		Bogs and fens, meadows and seeps, marshes and swamps.	Mesic meadows, lake margins, marshes, fens. 1200-2700m.
						North coast coniferous forest,	ļ
Coptis laciniata	Oregon goldthread	None	None	2.2		meadows and seeps.	Mesic sites such as moist streambanks. 0-1000m.
Utricularia ochroleuca	cream-flowered bladderwort	None	None	2.2		Mesic meadows, marshes near lakes.	Mesic sites, including lake margins. 1435-1440m.
						Bogs and fens, lower montane	
						coniferous forest, meadows and seeps, marshes and swamps,	
Betula glandulosa	dwarf resin birch	None	None	2.2		subalpine coniferous forest. Meadows and seeps, lower	Mesic sites. 1310-2285m.
						montane coniferous forest, upper montane coniferous forest,	
Rhamnus alnifolia	alder buckthorn	None	None	2.2		montane riparian scrub.	Mesic sites. 1370-2130m.
Ranunculus macounii	Macoun's buttercup	None	None	2.2		Great Basin scrub, meadows and seeps, pinyon-juniper woodland.	Mesic sites. 1400-1800m.
Deslines indexes		Name	Nana	2.2		Manadama and assess	Maria situa 4000 0000m
Packera indecora	rayless mountain ragwort	None	None	2.2		Meadows and seeps. Lower montane coniferous forest,	Mesic sites. 1600-2000m.
Di colo con control de la cont			N			meadows and seeps, marshes and swamps, upper montane coniferous	14
Rhynchospora capitellata	brownish beaked-rush	None	None	2.2		forest.	Mesic sites. 455-2000m.
Carex arcta	northern clustered sedge	None	None	2.2		Bogs and fens, North Coast coniferous forest.	Mesic sites. 60-1400m.
Coirous pondulus	pendulous bulrush	None	None	2.2		Meadows and seeps, freshwater marsh.	Mesic sites. 800-1000m.
Scirpus pendulus	periodious buildari	None	None	2.2		Lower montane coniferous forest,	Wester Sites. 000-1000III.
Carex sheldonii	Sheldon's sedge	None	None	2.2		marshes and swamps, riparian scrub.	Mesic sites; along creeks and in wet meadows. 1065-1755m.
Puccinellia pumila	dwarf alkali grass	None	None	2.2		Meadows and seeps, marshes and swamps.	Mineral spring meadows and coastal salt marshes. 1-10m.
i decinena parma	awan aikaii grass	None	None	2.2		Meadows and seeps, riparian	inimical spring meadows and coastal salt marsines.
Stellaria longifolia	long-leaved starwort	None	None	2.2		woodland.	Moist areas. 900-1830m.
						Bogs & fens, lower montane conif. forest, marshes & swamps, N.	
Lathyrus palustris	marsh pea	None	None	2.2		Coast coniferous forest, coastal prairie, coastal scrub.	Moist coastal areas. 1-100m.
, .	·					Meadows and seeps, marshes and	
Solidago gigantea	giant goldenrod	None	None	2.2		swamps.	Moist streambanks, lakesides, moist meadows. 1000-1500m.
Carex praticola	northern meadow sedge	None	None	2.2		Meadows.	Moist to wet meadows. 0-3200m.
						Bogs and fens, meadows, marshes	
Carex leptalea	bristle-stalked sedge	None	None	2.2		and swamps.	Mostly known from bogs and wet meadows. 0-790m.
Fimbristylis thermalis	hot springs fimbristylis	None	None	2.2		Meadows (alkaline).	Near hot springs. 120-1340m.
	scalloped-leaved						
Pedicularis crenulata	lousewort	None	None	2.2		Meadows and seeps.	Near streams in wet meadows. 2100-2300m.
Schoenus nigricans	black bog-rush	None	None	2.2		Marshes and swamps.	Often in alkaline marshes. 150-2000m.
	western single-spiked					Alpine boulder and rock field, meadows and seeps, subalpine	
Carex scirpoidea ssp. pseudoscirpoidea	sedge	None	None	2.2		coniferous forest. Bogs and fens, lower montane	Often on limestone; mesic sites. 3200-3700m.
Lycopodiella inundata	inundated bog-clubmoss	None	None	2.2		coniferous forest, marshes and swamps.	Peat bogs, muddy depressions, pond margins. 0-1000m.
		ļ					
Potamogeton zosteriformis	eel-grass pondweed	None	None	2.2		Marshes and swamps.	Ponds, lakes, streams. 0-1860m.
Iva hayesiana	San Diego marsh-elder	None	None	2.2		Marshes and swamps, playas.	Riverwashes. 10-500m.
						Bogs & fens, meadows & seeps,	
Considerate afficients	and house of	Nana	Nama	2.2		broadleafed upland forest, marshes & swamps, North Coast coniferous	Rocky serpentine seepage areas and along stream borders.
Sanguisorba officinalis	great burnet	None	None	2.2		forest, ripar. forest.	60-1400m.

Scientific Name	Common name	Federal listing status	Calif listing status	CNPS List	Other Status	General Habitat	Micro-Habitat
Antennaria lanata	woolly pussy-toes	None	None	2.2		Meadows and seeps.	Rocky sites. 2225m in California.
Pseudognaphalium leucocephalum	white rabbit-tobacco	None	None	2.2		Riparian woodland, cismontane woodland, coastal scrub, chaparral.	
Potamogeton epihydrus ssp. nuttalliii	Nuttall's ribbon-leaved pondweed	None	None	2.2		Marshes and swamps.	Shallow water, ponds, lakes, streams, irrigation ditches. 400- 2110m.
							Shallow, clear water of lakes and drainage channels. 15-
Potamogeton filiformis	slender-leaved pondweed	None	None	2.2		Marshes and swamps. Marshes and swamps, lower montane coniferous forest,	2310m.
Scutellaria galericulata Sphaeromeria potentilloides var.	marsh skullcap	None	None	2.2		meadows and seeps.	Swamps and wet places. 0-2100m.
nitrophila	alkali tansy-sage	None	None	2.2		Meadows and seeps, playas. Valley and foothill grassland (mesic	Usually alkaline soils. 2100-2400m. Vernal lake and pool margins with a variety of associates. In
Downingia pusilla	dwarf downingia	None	None	2.2		sites), vernal pools.	several types of vernal pools. 1-485m.
Parnassia parviflora	small-flowered grass-of- Parnassus	None	None	2.2		Meadows and seeps.	Wet areas. 2000-2800m.
Scutellaria lateriflora	side-flowering skullcap	None	None	2.2		Meadows and seeps, marshes and swamps.	Wet meadows and marshes3-500m.
Mertensia bella	Oregon lungwort	None	None	2.2		Meadows and seeps, upper montane coniferous forest.	Wet meadows, under taller herbs. 1420-2000m.
Carex vulpinoidea	brown fox sedge	None	None	2.2		Marshes and swamps, riparian woodland.	Wet places. 30-1200m.
Sarcocornia utahensis	Utah glasswort	None	None	2.2		Chenopod scrub, playas.	Alkaline sites. 320m in california.
Plagiobothrys salsus	desert popcorn-flower	None	None	2.2		Chenopod scrub, marshes and swamps.	Moist, alkaline mud flats. 605-1360m.
Sphenopholis obtusata	prairie wedge grass	None	None	2.2		Cismontane woodland, meadows and seeps.	Open moist sites, along rivers and springs, alkaline desert seeps. 360-2325m.
Koeberlinia spinosa ssp. tenuispina	slender-spined all-thorn	None	None	2.2		Sonoran desert scrub, riparian woodland.	Usually in sandy washes. 145-510m.
Astragalus argophyllus var. argophyllus		None	None	2.2	BLM- Sensitive	Meadows and seeps, playas.	Alkaline and saline meadows, stream banks and lake shores, in stiff alluvial clays and loams. 1280-2350m.
				2.2	BLM-	Great Basin scrub, meadows and	
Astragalus agrestis	field milk-vetch	None	None		Sensitive BLM-	seeps. Meadows, Great Basin scrub,	Vernally mesic sites. 1560-1650m. Alkaline meadows, alkaline flats, and low-lying alkaline basins;
Ivesia kingii var. kingii	alkali ivesia	None	None	2.2	Sensitive USFS-	playas.	w/ Distichlis, Sporobolus, Juncus, etc. 1200-2130m.
Botrychium virginianum	rattlesnake fern	None	None	2.2	Sensitive USFS-	Bogs and fens.	1300m.
Thelypteris puberula var. sonorensis	Sonoran maiden fern	None	None	2.2	Sensitive USFS-	Meadows and seeps. Marshes and swamps, meadows	Along streams, seepage areas. 50-550m. Marsh edges, low pastures, grassy roadside ditches. Also
Ophioglossum pusillum	northern adder's-tongue	None	None	2.2	Sensitive	and seeps. Bogs and fens, meadows, lower montane coniferous forest,	described as in "open swamp." 1000-2000m.
Botrychium crenulatum	scalloped moonwort	None	None	2.2	USFS- Sensitive	freshwater marsh. Meadows and seeps, bogs and	Moist meadows, near creeks. 1500-2670m.
Meesia uliginosa	broad-nerved hump moss	None	None	2.2	USFS- Sensitive	fens, upper montane coniferous forest.	Moss on damp soil. 1300-2500m.
Bruchia bolanderi	Bolander's bruchia	None	None	2.2	USFS- Sensitive	Lower montane coniferous forest, meadows and seeps, upper montane coniferous forest.	Moss which grows on damp clay soils. This species has an ephemeral nature and takes advantage of disturbed sites. 1700-2800m.
					USFS-	Lower montane coniferous forest, meadows and seeps, chaparral,	
Swertia umpquaensis	Umpqua green-gentian	None	None	2.2	Sensitive	North Coast coniferous forest. Lower montane coniferous forest,	Mountain meadows; openings in forest. 1555-1900m.
Parnassia cirrata var. intermedia	Cascade grass-of- Parnassus	None	None	2.2	USFS- Sensitive	upper montane coniferous forest, meadows and seeps, bogs and fens.	Rocky serpentine soil. 780-1980m.
Packera hesperia	western ragwort	None	None	2.2	USFS- Sensitive	Upper montane coniferous forest, meadows and seeps.	Serpentine. 500-2500m.
Montia howellii	Howell's montia	None	None	2.2	USFS- Sensitive	Meadows, North Coast coniferous forest, vernal pools.	Vernally wet sites; often on compacted soil. 0-400m.
Drosera anglica	English sundew	None	None	2.3		Bogs and fens, meadows.	1300-2000m.
proces anylica	English sundew	140116	INOTIC	2.0		Lower montane coniferous forest, meadows and seeps, Great Basin	1000 £000HI.
Sidalcea multifida	cut-leaf checkerbloom	None	None	2.3		scrub, pinyon and juniper woodland.	1750-2800m.
Carex occidentalis	western sedge	None	None	2.3		Lower montane coniferous forest, meadows and seeps.	1900m.

Out of the News	•	Federal listing	Calif listing	oupo I : . /	Other	0	MT
Scientific Name	Common name	status	status	CNPS List	Status	General Habitat	Micro-Habitat
Wolffia brasiliensis	Brazilian watermeal	None	None	2.3		Shallow freshwater marshes.	30-100m.
						Lower montane coniferous forest,	
Carex petasata	Liddon's sedge	None	None	2.3		meadows.	600-3200m.
Ribes hudsonianum var. petiolare	western black currant	None	None	2.3		Riparian scrub.	Along creeks with Salix, Heracleum, etc. 1500-2215m.
						Lower montane coniferous forest,	
Epilobium luteum	yellow willowherb	None	None	2.3		meadows.	Along streams and in seeps. 1500-1705m.
Saxifraga cespitosa	tufted saxifrage	None	None	2.3		Meadows and seeps.	Damp, rocky places. 915-2760m.
Datamagatan rabbinaii	Robbins' pondweed	None	None	2.3		Marshes and swamps.	Dean water lakes, 1520 2500m
Potamogeton robbinsii	Robbins ponaweed	None	None	2.3		iviaisiies and swamps.	Deep water, lakes. 1520-3500m.
Potamogeton praelongus	white-stemmed pondweed	None	None	2.3		Marshes and swamps.	Deep water, lakes. 1645-3000m.
						Bogs and fens, closed-cone coniferous forest, coastal prairie,	
Carex californica	California sedge	None	None	2.3		meadows, marshes and swamps.	Meadows, drier areas of swamps, marsh margins. 90-250m.
Juncus nodosus	knotted rush	None	None	2.3		Meadows, marshes and swamps.	Mesic sites and lake margins. 1130-1700m.
						Upper montane coniferous forest,	
Juncus regelii	Regel's rush	None	None	2.3		meadows and seeps. Bogs and fens, marshes and	Mesic sites. 760-1900m.
Carex viridula var. viridula	green yellow sedge	None	None	2.3		swamps (freshwater), North Coast coniferous forest.	Mesic sites. 0-1600m.
	g.com yemen eeege					Great Basin scrub, meadows and seeps, upper montane coniferous	
Nemophila breviflora	Great Basin nemophila	None	None	2.3		forest.	Mesic sites. 1220-2410m.
Carex vallicola	western valley sedge	None	None	2.3		Great Basin scrub, meadows and seeps.	Mesic sites. 1525-2805m.
						Meadows and seeps, freshwater	
Triglochin palustris	marsh arrow-grass	None	None	2.3			Mesic sites. 2285-3700m.
Draba praealta	tall draba	None	None	2.3		Meadows and seeps.	Mesic sites. 2500-3415m.
·						Bogs and fens, meadows and	Mesic sites. Known in California only from Grass Lake, El
Epilobium palustre	marsh willowherb	None	None	2.3		seeps.	Dorado County. 2200m.
Lysimachia thyrsiflora	tufted loosestrife	None	None	2.3		Meadows (mesic), marshes, upper montane coniferous forest.	Mesic sites; known from lake margins, along streams and in wet meadows. 975-1675m.
Carex serpenticola	serpentine sedge	None	None	2.3		Meadows and seeps.	Mesic, serpentine sites. 60-1200m.
Schoenoplectus subterminalis	water bulrush	None	None	2.3		Marshes and swamps.	Montane lake margins, in shallow water. 750-2335m.
						Marshes and swamps, lower	
Schoenoplectus heterochaetus	slender bulrush	None	None	2.3		montane coniferous forest. Alpine boulder and rock field,	Montane lake margins. In California: 1600m.
Erigeron nivalis	snow fleabane daisy	None	None	2.3		meadows and seeps, subalpine coniferous forest.	On volcanic rock outcrops in cracks and crevices. 1955- 2900m.
						Alpine boulder and rock field, meadows and seeps, subalpine	
Agrostis humilis	mountain bent grass	None	None	2.3		coniferous forest.	Probably undercollected; high elevation grass. 2700-3200m.
Potentilla newberryi	Newberry's cinquefoil	None	None	2.3		Marshes and swamps.	Receding shorelines; drying marsh margins. 1290-2200m.
Potamogeton foliosus var. fibrillosus	fibrous pondweed	None	None	2.3		Marshes and swamps.	Shallow water, small streams. 5-1300m.
Carex lasiocarpa	woolly-fruited sedge	None	None	2.3		Bogs and fens, marshes and swamps.	Sphagnum bogs, freshwater marsh, and probably other moss- dominated habitats as well. 1800-2100m.
Calin habbiana	Dahkia willaw	Nana	Nana	2.2		Riparian scrub, marshes and	Charachagla Islandana 4000 1100
Salix bebbiana	Bebb's willow	None	None	2.3		swamps.	Streambanks, lakeshores. 1200-1400m.
Glyceria grandis	American manna grass	None	None	2.3		Meadows.	Wet meadows, ditches, streams, and ponds in valleys and lower elevations in the mountains. 15-1980m.
Hierochloe odorata	nodding vanilla-grass	None	None	2.3		Meadows and seeps.	Wet sites. 1500-1895m.
I INCOUNTING OUUI ALA		14UHC	None	2.0		·	Wet, clay, meadow soil with grasses and sedges; sometimes
Androsace filiformis	slender-stemmed androsace	None	None	2.3		Upper montane coniferous forest, meadows and seeps.	on streambanks; in somewhat disturbed sites (by cattle). 1800m
Suaeda occidentalis	western seablite	None	None	2.3		Great Basin scrub.	Alkaline soils; mesic sites.
Succession of the succession o	- Solom Scapille			0	USFS-	Lower montane coniferous forest, meadows, upper montane	r memo sono, mesio sues.
Botrychium pinnatum	northwestern moonwort	None	None	2.3	Sensitive	coniferous forest.	Creekbanks. 1770-2010m.
Helodium blandowii	Blandow's bog moss	None	None	2.3	USFS- Sensitive	Meadows and seeps, bogs and fens, subalpine coniferous forest.	Moss growing on damp soil. 2000-2700m.
nelogium piangowii	Pidiluow & DOG IIIOSS	None	None	۷.3	งะแรแve	rens, subalpine confletous forest.	pivioss growing on damp SOII. 2000-2700M.

Table J-2a. Plant Species Considered in this EIR (Aquatic, Weltand and Riparian species)

Scientific Name	Common name	Federal listing status		CNPS List	Other Status	General Habitat	Micro-Habitat
Gentiana fremontii	Fremont's gentian	None	None			Meadows, upper montane coniferous forest.	Wet mountain meadows. 2400-2700m.

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Scientific Name	Common name	Federal listing status	Calif listing status	CNPS List	Other Status	General Habitat	Micro-Habitat
Amsinckia grandiflora	large-flowered fiddleneck	Endangered	Endangered	1B.1		Cismontane woodland, valley and foothill grassland.	Annual grassland in various soils. 275-550m.
Opuntia basilaris var. treleasei	Bakersfield cactus	Endangered	Endangered	1B.1	USFS- Sensitive	Chenopod scrub, valley and foothill grassland, cismontane woodland.	Coarse or cobbly well-drained granitic sand on bluffs, low hills, and flats within grassland. 90-550m.
Lupinus nipomensis	Nipomo Mesa Iupine	Endangered	Endangered	1B.1		Coastal dunes.	Dry sandy flats, restricted to back dunes, assoc. with central dune scrub habitat - a rare community type. 10-50m.
Pentachaeta Iyonii	Lyon's pentachaeta	Endangered	Endangered	1B.1		Chaparral, valley and foothill grassland.	Edges of clearings in chap., usually at the ecotone btwn grassland and chaparral or edges of firebreaks. 30-630m.
, , .	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	J. S.	J. T.			Chaparral, valley and foothill grassland,	Extant populations only known from very uncommon serpentinite vertisol clays; in relatively open areas. 50-
Acanthomintha duttonii	San Mateo thorn-mint	Endangered	Endangered	1B.1		coastal scrub.	200m.
Dodecahema leptoceras	slender-horned spineflower	Endangered	Endangered	1B.1	USFS- Sensitive	Chaparral, coastal scrub (alluvial fan sage scrub).	Flood deposited terraces and washes; assoc include Encelia, Dalea, Lepidospartum, etc. 200-760m.
Erysimum menziesii ssp. eurekense	Humboldt Bay wallflower	Endangered	Endangered	1B.1		Coastal dunes.	Foredunes w/Artemisia pycnocephala, Solidago spathulata, Lathyrus sp., etc. 0-10m.
Erysimum menziesii ssp. yadonii	Yadon's wallflower	Endangered	Endangered	1B.1		Coastal dunes.	Foredunes. 0-15m.
Lessingia germanorum	San Francisco lessingia	Endangered	Endangered	1B.1		Coastal scrub.	From remnant dunes. Open sandy soils relatively free of competing plants. 20-125m.
Eriogonum apricum var. prostratum	Irish Hill buckwheat	Endangered	Endangered	1B.1		Chaparral.	Gravelly openings on lone formation soils. 90-120m.
Caulanthus californicus	California jewel-flower	Endangered	Endangered	1B.1	USFS- Sensitive	Chenopod scrub, valley and foothill grassland, pinyon-juniper woodland.	Historical from various valley habitats in both the Central Valley and Carrizo Plain. 65-900m.
Marandalla dada		F11	Fadagasad	45.4		Coastal scrub/alluvial ephemeral washes with adjacent coastal scrub,	In canyons, in rocky and sandy places, sometimes in washes
Monardella viminea Eriogonum apricum var.	willowy monardella	Endangered	Endangered	1B.1		chaparral, or sycamore woodland.	or floodplains; w/Baccharis, Iva, etc. 50-225m.
apricum Eriastrum densifolium ssp.	Ione buckwheat Santa Ana River	Endangered	Endangered	1B.1	USFS-	Chaparral.	In gravelly openings on lone formation soil. 80-150m. In sandy soils on river floodplains or terraced fluvial deposits.
sanctorum	woollystar	Endangered	Endangered	1B.1	Sensitive	Coastal scrub, chaparral. Lower montane coniferous forest,	150-610m.
Erysimum teretifolium	Santa Cruz wallflower	Endangered	Endangered	1B.1		chaparral. Coastal scrub, valley and foothill	Inland marine sands (Zayante coarse sand). 120-610m. Known from coastal terrace near Gaviota; sandy blowouts
Deinandra increscens ssp. villosa	Gaviota tarplant	Endangered	Endangered	1B.1		grassland, coastal bluff scrub.	amid sandy loam soil; grassland/coast scrub ecotone. 35-430m.
Erysimum menziesii ssp. menziesii	Menzies' wallflower	Endangered	Endangered	1B.1		Coastal dunes.	Localized on dunes and coastal strand. 0-35m.
Astragalus tener var. titi	coastal dunes milk-vetch	Endangered	Endangered	1B.1		Coastal bluff scrub, coastal dunes.	Moist, sandy depressions of bluffs or dunes along and near the Pacific Ocean; one site on a clay terrace. 1-50m.
Eriophyllum latilobum	San Mateo woolly sunflower	Endangered	Endangered	1B.1		Cismontane woodland.	Often on roadcuts; found on and off of serpentine. 45-150m.
Calystegia stebbinsii	Stebbins' morning-glory	Endangered	Endangered	1B.1		Chaparral, cismontane woodland.	On red clay soils of the Pine Hill formation; gabbro or serpentine; open areas. 180-725m.
Layia carnosa	beach layia	Endangered	Endangered	1B.1		Coastal dunes. hugely reduced in range along California's North Coast dunes.	On sparsely vegetated, semi-stabilized dunes, usually behind foredunes. 0-75m.
							Only site occurs on NW-facing slope, on decomposed shale. Hist. known from grassy areas along fencelines too. 90-
Delphinium bakeri	Baker's larkspur	Endangered	Endangered	1B.1		Coastal scrub, grasslands.	205m. Open dry rocky slopes and grassy areas, often on soils
Pentachaeta bellidiflora	white-rayed pentachaeta	Endangered	Endangered	1B.1		Valley and foothill grassland. Coastal dunes. Includes Lupinus	derived from serpentine bedrock. 35-620m.
Lupinus tidestromii	Tidestrom's lupine	Endangered	Endangered	1B.1		tidestromii var. tidestromii, State-listed Endangered.	Partially stabilized dunes, immediately near the ocean. 0-35m.
Oenothera deltoides ssp. howellii	Antioch Dunes evening- primrose	Endangered	Endangered	1B.1		Interior dunes.	Remnant river bluffs and sand dunes east of Antioch. 0- 30m.
Arabis macdonaldiana	Mcdonald's rock-cress	Endangered	Endangered	1B.1	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest.	Rocky outcrops, ridges, slopes, and flats on serpentine. 135-1455m.
Chorizanthe orcuttiana	Orcutt's spineflower	Endangered	Endangered	1B.1		Coastal scrub, chaparral, closed-cone coniferous forest.	Sandy sites and openings; sometimes in transition zones. 3- 125m.
Chorizanthe valida	Sonoma spineflower	Endangered	Endangered	1B.1		Coastal prairie.	Sandy soil. 10-50m.
Cirsium fontinale var. fontinale Erysimum capitatum var. angustatum	fountain thistle Contra Costa wallflower	Endangered Endangered	Endangered Endangered	1B.1 1B.1		Valley and foothill grassland, chaparral. Inland dunes.	Serpentine seeps and grassland. 90-180m. Stabilized dunes of sand and clay near Antioch along the San Joaquin River. 3-20m.
Malacothamnus fasciculatus var. nesioticus	Santa Cruz Island bush- mallow	Endangered	Endangered	1B.1		Coastal scrub, chaparral.	Steep slopes and outcrops. 30-215m.
Cordylanthus palmatus	palmate-bracted bird's- beak	Endangered	Endangered	1B.1		Chenopod scrub, valley and foothill grassland.	Usually on Pescadero silty clay which is alkaline, with Distichlis, Frankenia, etc. 5-155m.
Dudleya traskiae	Santa Barbara Island dudleya	Endangered	Endangered	1B.2		Coastal scrub, coastal bluff scrub.	In shallow soil pockets on rocky cliffs, and on coastal terraces. 15-110m.
Cirsium fontinale var. obispoense	Chorro Creek bog thistle	Endangered	Endangered	1B.2		Chaparral, cismontane woodland.	Serpentine seeps. 35-365m.
Castilleja mollis Lesquerella kingii ssp.	soft-leaved paintbrush San Bernardino	Endangered	None	1B.1		Coastal dunes, coastal bluff scrub. Pinyon and juniper woodland, lower	5-20m.
bernardina	Mountains bladderpod Santa Cruz Island	Endangered	None	1B.1		montane coniferous forest. Coastal dunes, coastal bluff scrub,	Dry sandy to rocky carbonate soils. 2030-2485m.
Malacothrix indecora	malacothrix	Endangered	None	1B.1		chaparral.	Exposed sites on dry ridges and sea bluffs. 5-60m.
Sidalcea keckii	Keck's checkerbloom	Endangered	None	1B.1	USFS- Sensitive	Cismontane woodland, valley and foothill grassland	Grassy slopes in blue oak woodland. 180-425m.
Chorizanthe robusta var. hartwegii	Scotts Valley spineflower	Endangered	None	1B.1		Meadows, valley and foothill grassland.	In grasslands with mudstone and sandstone outcrops. 230- 245m.
Gilia tenuiflora ssp. hoffmannii	Hoffmann's slender- flowered gilia	Endangered	None	1B.1		Coastal dunes, coastal scrub.	Island dunes; sandy soil. 5-30m.

Scientific Name	Common name	Federal listing status	Calif listing status	CNPS List	Other Status	General Habitat	Micro-Habitat
Eriogonum ovalifolium var. vineum	Cushenbury buckwheat	Endangered	None	1B.1	USFS- Sensitive	Mojavean desert scrub, pinyon-juniper woodland, Joshua tree woodland.	Limestone mountain slopes. Dry, usually rocky places. 1400- 2440m.
Eremalche kernensis	Kern mallow Santa Clara Valley	Endangered	None	1B.1	USFS- Sensitive	Chenopod scrub, valley and foothill grassland. Valley and foothill grassland,	On dry, open sandy to clayey soils; usually within valley saltbush scrub; often at edge of balds. 70-515m. On rocky serpentine outcrops and on rocks within grassland
Dudleya setchellii Piperia yadonii	dudleya Yadon's rein orchid	Endangered Endangered	None None	1B.1 1B.1		cismontane woodland. Closed-cone coniferous forest, chaparral, coastal bluff scrub.	or woodland. 80-335m. On sandstone and sandy soil, but poorly drained and often dry. 10-415m.
					USFS-		Open sites at edge of woodland or chaparral (in Oregon);
Fritillaria gentneri	Gentner's fritillary	Endangered	None	1B.1	Sensitive USFS-	Cismontane woodland, chaparral? Closed-cone coniferous forest, chaparral, coastal scrub, valley and	sometimes on serpentine. 1080-1120m. Recent burns or disturbed areas; in stiff gravelly clay soils
Astragalus brauntonii Streptanthus albidus ssp. albidus	Braunton's milk-vetch Metcalf Canyon jewel- flower	Endangered Endangered	None	1B.1	Sensitive	foothill grassland. Valley and foothill grassland.	overlying granite or limestone. 4-640m. Relatively open areas in dry grassy meadows on serpentine soils; also on serpentine balds. 45-245m.
Ambrosia pumila	San Diego ambrosia	Endangered	None	1B.1		Chaparral, coastal scrub, valley and foothill grassland.	Sandy loam or clay soil. in valleys; persists where disturbance has been superficial. Sometimes on margins or near vernal pools. 20-415m.
Astragalus albens	Cushenbury milk-vetch	Endangered	None	1B.1	USFS- Sensitive	Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland.	Sandy or stony flats, rocky hillsides, cyn washes, & fans, on granite or mixed granitic-calcareous debris. 1095-2000m.
Chorizanthe robusta var.	robust spineflower	Endangered	None	1B.1	BLM- Sensitive	Cismontane woodland, coastal dunes, coastal scrub.	Sandy terraces and bluffs or in loose sand. 3-120m.
Trifolium amoenum	showy rancheria clover	Endangered	None	1B.1		Valley and foothill grassland, coastal bluff scrub.	Sometimes on serpentine soil, open sunny sites, swales. Most recently sited on roadside and eroding cliff face. 5- 560m.
Arabis hoffmannii	Hoffmann's rock-cress	Endangered	None	1B.1		Coastal bluff scrub.	Volcanic cliff edges. 75-380m.
Chorizanthe pungens var. hartwegiana	Ben Lomond spineflower	Endangered	None	1B.1		Lower montane coniferous forest.	Zayante coarse sands in maritime ponderosa pine sandhills. 120-470m.
Monolopia congdonii	San Joaquin woollythreads	Endangered	None	1B.2	USFS- Sensitive	Chenopod scrub and valley and foothill grassland.	Alkaline or loamy plains; sandy soils, often with grasses and within chenopod scrub. 60-800m.
Astragalus tricarinatus	triple-ribbed milk-vetch	Endangered	None	1B.2	USFS- Sensitive	Joshua tree woodland, Sonoran desert scrub.	Hot, rocky slopes in canyons and along edge of boulder- strewn desert washes, w/ Larrea and Encelia. 450-790m.
Astragalus lentiginosus var. coachellae	Coachella Valley milk- vetch	Endangered	None	1B.2	USFS- Sensitive	Sonoran desert scrub.	Sandy flats, washes, outwash fans, sometimes on dunes. 60-360m.
Delphinium luteum	golden larkspur	Endangered	Rare	1B.1		Chaparral, coastal prairie, coastal scrub.	North-facing rocky slopes. 0-100m.
Clarkia speciosa ssp. immaculata	Pismo clarkia	Endangarad	Rare	1B.1		Chaparral, cismontane woodland, valley and foothill grassland.	On ancient sand dunes not far from the coast. sandy soils, openings. 25-185m.
Cordylanthus tenuis ssp.	FISHIO CIAIRIA	Endangered	Raie	16.1		Closed-cone coniferous forest,	In open or disturbed areas on serpentine within forest or
capillaris Galium californicum ssp.	Pennell's bird's-beak	Endangered	Rare	1B.2		chaparral. Cismontane woodland, chaparral, lower	chaparral. 45-230m. More often in pine-oak woodland than in chaparral; restricted
sierrae	El Dorado bedstraw	Endangered	Rare	1B.2		montane coniferous forest.	to gabbroic soils. 100-585m.
Eriodictyon capitatum	Lompoc yerba santa	Endangered	Rare	1B.2		Closed-cone coniferous forest, chaparral.	Sandy soils on terraces. 40-455m.
Allium munzii	Munz's onion	Endangered	Threatened	1B.1	USFS- Sensitive	Chaparral, coastal scrub, cismontane woodland, pinyon-juniper woodland, valley and foothill grassland.	Heavy clay soils; grows in grasslands & openings within shrublands or woodlands. 300-1035m.
Astragalus claranus	Clara Hunt's milk-vetch	Endangered	Threatened	1B.1		Cismontane woodland, valley and foothill grassland, chaparral.	Open grassy hillsides, esp. on exposed shoulders in thin, volcanic clay soil moist in spring. 75-235m.
Gilia tenuiflora ssp. arenaria	sand gilia	Endangered	Threatened	1B.2		Coastal dunes, coastal scrub, chaparral (maritime), cismontane woodland.	Bare, wind-sheltered areas often near dune summit or in the hind dunes; 2 records from Pleistocene inland dunes. 0-245m.
Castilleja affinis ssp. neglecta	Tiburon painthrush	Endangered	Threatened	1B.2		Valley and foothill grassland.	Rocky serpentine sites. 75-400m.
	·					Coastal dunes, coastal prairie, coastal	Sand dunes, sandy slopes, and sandy areas in coastal
Chorizanthe howellii	Howell's spineflower	Endangered	Threatened	1B.2		scrub. Coastal scrub, valley and foothill	prairie. 0-35m. Coastal plains, mesas, and river bottoms; often in open,
Deinandra conjugens	Otay tarplant	Threatened	Endangered	1B.1	USFS-	grassland. Chaparral, coastal scrub, valley and	disturbed areas; clay soils. 25-300m. Endemic to active vertisol clay soils of mesas & valleys. Usu
Acanthomintha ilicifolia	San Diego thorn-mint San Joaquin adobe	Threatened	Endangered	1B.1	Sensitive USFS-	foothill grassland, vernal pools. Valley and foothill grassland,	on clay lenses w/in grassInd or chap communities. 10-935m. Grassy valley floors and rolling foothills in heavy clay soil.
Pseudobahia peirsonii	sunburst	Threatened	Endangered	1B.1	Sensitive	cismontane woodland.	85-800m.
Brodiaea pallida	Chinese Camp brodiaea	Threatened	Endangered	1B.1	 	Valley and foothill grassland. Coastal prairie, valley and foothill	In flat, rocky, intermittent streambed on serpentine. 385m. Light, sandy soil or sandy clay; often with nonnatives. 10-
Holocarpha macradenia	Santa Cruz tarplant	Threatened	Endangered	1B.1	110=0	grassland.	260m.
Baccharis vanessae	Encinitas baccharis	Threatened	Endangered	1B.1	USFS- Sensitive	Chaparral.	On sandstone soils in steep, open, rocky areas with chaparral associates. 60-720m.
Clarkia springvillensis Astragalus magdalenae var.	Springville clarkia	Threatened	Endangered	1B.2	USFS- Sensitive	Chaparral, cismontane woodland, valley and foothill grassland.	Cutbanks and openings in blue oak woodland. Decomposed granite loam. 330-1220m. Slopes and hollows in mobile dunes, usually to the lee of the
peirsonii	Peirson's milk-vetch	Threatened	Endangered	1B.2		Desert dunes.	prevailing winds55-250m.
Cirsium ciliolatum	Ashland thistle Santa Cruz Island bird's-	None	Endangered	2.1	BLM- Sensitive	Cismontane woodland, valley and foothill grassland.	Dry, grassy, south-facing slopes with rock outcrops. 800- 1400m. Dry rocky places and canyon walls of interior coastal
Lotus argophyllus var. niveus	foot trefoil	None	Endangered	4.2		Chaparral, coastal scrub.	sage\chaparral on Santa Cruz Island. 5-650m.
Silene campanulata ssp. campanulata	Red Mountain catchfly	None	Endangered	4.2	BLM- Sensitive	Lower montane coniferous forest, chaparral. State-listed endangered, but CNPS List 4; EO's mostly archived.	Rocky dry shallow serpentine soil. 420-1200m. Element occurrences archived; CNPS List 4.

Scientific Name	Common name	Federal listing status	Calif listing status	CNPS List	Other Status	General Habitat	Micro-Habitat
Astragalus agnicidus	Humboldt milk-vetch	None	Endangered	1B.1	BLM- Sensitive	Broadleafed upland forest, redwood forest.	Disturbed openings in partially timbered forest lands; also along ridgelines; south aspects. 575-750m.
Fritillaria roderickii	Roderick's fritillary	None	Endangered	1B.1		Coastal bluff scrub, coastal prairie, valley and foothill grassland.	Grassy slopes, mesas. 15-610m.
	San Francisco popcorn-					Valley and foothill grassland, coastal	Historically from grassy slopes with marine influence. 60-
Plagiobothrys diffusus	flower	None	Endangered	1B.1		prairie.	485m.
Atriplex tularensis Astragalus lentiginosus var.	Bakersfield smallscale	None	Endangered	1B.1		Chenopod scrub, alkali meadow.	Historically in valley sink scrub or with saltgrass. 90-110m. In open areas and under shrubs on alkaline clay soil
sesquimetralis	Sodaville milk-vetch	None	Endangered	1B.1		Meadows.	surrounding springs. 950m.
Clarkia lingulata	Merced clarkia	None	Endangered	1B.1	USFS- Sensitive	Closed-cone coniferous forest, chaparral, cismontane woodland.	Metamorphic gravels and talus and in red clay on north- facing slopes and in canyon bottoms. 400-455m.
Cordylanthus rigidus ssp. littoralis	seaside bird's-beak	None	Endangered	1B.1	BLM- Sensitive	Closed-cone coniferous forest, chaparral, cismontane woodland, coastal scrub, coastal dunes.	Sandy, often disturbed sites, usually within chaparral or coastal scrub. 0-215m.
Brodiaea coronaria ssp. rosea	Indian Valley brodiaea	None	Endangered	1B.1	BLM- Sensitive; USFS- Sensitive	Closed-cone coniferous forest, chaparral, cismontane woodland, valley and foothill grassland, meadows.	Serpentine gravelly creek bottoms, and in meadows and swales. 335-1450m.
Nolina interrata	Dehesa nolina	None	Endangered	1B.1	BLM- Sensitive	Chaparral.	Typically on rocky hillsides or ravines on ultramafic soils (gabbro or metavolcanic). 180-855m.
Brodiaea insignis	Kaweah brodiaea	None	Endangered	1B.2	BLM- Sensitive; USFS- Sensitive	Cismontane woodland, valley and foothill grassland.	Granite substates in deep, clayey soils on S-SW facing slopes; usu in grassland surr by foothill woodland. 150-1220m.
Helianthus niveus ssp. tephrodes	Algodones Dunes sunflower	None	Endangered	1B.2	BLM- Sensitive	Desert dunes.	On partialized stabilized desert dunes. 50-100m.
Eriogonum alpinum	Trinity buckwheat	None	Endangered	1B.2	USFS- Sensitive	Subalpine coniferous forest, upper montane coniferous forest, alpine boulder and rock field.	Rocky soils and scree slopes in open and windswept areas on serpentine substrate. 2200-2610m.
Hesperolinon didymocarpum	Lake County western flax	None	Endangered	1B.2	BLM- Sensitive	Chaparral, cismontane woodland, valley and foothill grassland.	Serpentine soil in open grassland and near chaparral. 330-365m.
Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	Candidate	Endangered	1B.1	USFS- Sensitive	Coastal scrub.	Sandy soils. 3-1035m.
Eriogonum kelloggii	Kellogg's buckwheat	Candidate	Endangered	1B.2	BLM- Sensitive	Lower montane coniferous forest, chaparral.	Rocky, serpentine sites. 925-1220m.
Chlorogalum purpureum var. purpureum	purple amole	Threatened	None	1B.1		Cismontane woodland, valley and foothill grassland.	Often in grassy areas with blue oaks in foothill woodland. 300-330m.
Erigeron parishii	Parish's daisy	Threatened	None	1B.1	USFS- Sensitive	Mojavean desert scrub, pinyon-juniper woodland, Joshua tree woodland.	Often on carbonate; limestone mountain slopes; often assoc. with drainages. 1090-2000m.
	Madana	Thurstoned	Nana	4D 4	USFS-	Ciamantana waa dhaad	On secretary desires restricted to supposed sites, 400 4400m
Calyptridium pulchellum	Mariposa pussypaws San Benito evening-	Threatened	None	1B.1	Sensitive	Cismontane woodland.	On granite domes, restricted to exposed sites. 400-1100m.
Camissonia benitensis	primrose	Threatened	None	1B.1		Chaparral, cismontane woodland.	On gravelly serpentine alluvial terraces. 750-1280m.
Trichostema austromontanum ssp. compactum	Hidden Lake bluecurls	Threatened	None	1B.1		Upper montane coniferous forest. Pebble plains, upper montane	Seasonally submerged lake margins, decomposed granite. One site known: 2665m.
Castilleja cinerea	ash-gray paintbrush	Threatened	None	1B.2	USFS- Sensitive	coniferous forest, Mojavean desert scrub, meadows, pinyon-juniper woodland.	Endemic to the San Bernardino Mountains, in clay openings; often in meadow edges. 1800-2835m.
Dudleya parva	Conejo dudleya	Threatened	None	1B.2		Coastal scrub, valley and foothill grassland.	In clayey or volcanic soils on rocky slopes and grassy hillsides. 60-450m.
Arenaria ursina	Big Bear Valley sandwort	Threatened	None	1B.2	USFS- Sensitive	Pebble plain, pinyon and juniper woodland.	Mesic, rocky sites. 1750-2900m.
						Chaparral, cismontane woodland,	On volcanic rock outcrops in the Santa Monica Mountains.
Dudleya verityi	Verity's dudleya	Threatened	None	1B.2		coastal scrub. Chaparral, coastal scrub, closed-cone	60-120m. Rocky sites; usually in open places among pines or
Helianthemum greenei Dudleya cymosa ssp.	island rush-rose	Threatened	None	1B.2		coniferous forest.	chaparral. 15-480m.
agourensis	Agoura Hills dudleya	Threatened	None	1B.2		Chaparral, cismontane woodland.	Rocky, volcanic breccia. 200-500m.
Chorizanthe pungens var. pungens	Monterey spineflower	Threatened	None	1B.2		Coastal dunes, chaparral, cismontane woodland, coastal scrub.	Sandy soils in coastal dunes or more inland within chaparral or other habitats. 0-150m.
Eriogonum kennedyi var. austromontanum	southern mountain buckwheat	Threatened	None	1B.2	USFS- Sensitive	Pebble (pavement) plain, lower montane coniferous forest.	Usually found in pebble plain habitats. 1755-2375m.
Dudleya cymosa ssp. marcescens	marcescent dudleya	Threatened	Rare	1B.2		Chaparral.	On sheer rock surfaces and rocky volcanic cliffs. 180-520m.
Packera layneae	Layne's ragwort	Threatened	Rare	1B.2	USFS- Sensitive	Chaparral, cismontane woodland.	Ultramafic soil; occasionally along streams. 200-1000m.
Hesperolinon congestum	Marin western flax	Threatened	Threatened	1B.1		Chaparral, valley and foothill grassland.	In serpentine barrens and in serpentine grassland and chaparral. 30-365m.
Dudleya stolonifera	Laguna Beach dudleya	Threatened	Threatened	1B.1		Chaparral, cismontane woodland, coastal scrub, valley and foothill grassland.	In thin soil on north-facing sandstone cliffs. 10-260m.
						Cismontane woodland, valley and	Mesic sites on serpentine; usually serpentine seeps or
Verbena californica	Red Hills vervain	Threatened	Threatened	1B.1		foothill grassland.	creeks. 255-400m.

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					BLM- Sensitive;		
Fritillaria striata	striped adobe-lily	None	Threatened	1B.1	USFS- Sensitive	Cismontane woodland, valley and foothill grassland.	Heavy clay adobe soils in oak grassland. 135-1455m.
Lupinus milo-bakeri	Milo Baker's lupine	None	Threatened	1B.1		Cismontane woodland, valley and foothill grassland.	In roadside ditches, dry gravelly areas along roads, and along small streams. 360-440m.
					BLM-	Coastal dunes, coastal scrub. formerly more widespread in coastal habitats in	
Dithyrea maritima	beach spectaclepod	None	Threatened	1B.1		So. Calif.	Sea shores, on sand dunes, and sandy places near the shore. 3-50m.
					BLM- Sensitive; USFS-		An very localized endemic found on well-drained granitic
Carpenteria californica	tree-anemone	None	Threatened	1B.2	Sensitive	Cismontane woodland, chaparral.	soils, mostly on N-facing ravines and drainages. 340-1340m. Decomposed granitic sand on hilltops and hillsides on
Lupinus citrinus var. deflexus	Mariposa lupine	None	Threatened	1B.2	BLM- Sensitive	Chaparral, cismontane woodland.	western slope of the Sierra Nevada, mostly S. exp. 400-640m.
					BLM-		Open areas in central dune scrub; usually in coastal dunes.
Cirsium rhothophilum Phacelia stellaris	surf thistle Brand's star phacelia	None Candidate	Threatened None	1B.2 1B.1	Sensitive	Coastal dunes, coastal bluff scrub. Coastal scrub, coastal dunes.	3-60m. Open areas. 5-1515m.
	ļ.						
					BLM- Sensitive;		
Ivesia webberi	Webber's ivesia	Candidate	None	1B.1	USFS- Sensitive	Great Basin scrub, lower montane coniferous forest.	Rocky, volcanic soils. 1500-2075m.
					BLM-		
Sedum eastwoodiae	Red Mountain stonecrop	Candidate	None	1B.2	Sensitive	Lower montane coniferous forest.	Serpentine soils among rocks. 600-1200m.
					BLM- Sensitive;		
Dieteria asteroides var.	Mount Laguna aster	None	Para	2.1	USFS-	Cismontane woodland, lower montane	Openings in woodland or forest, 900, 2400m
lagunensis	Mount Laguna aster	None	Rare	2.1	Sensitive	coniferous forest.	Openings in woodland or forest. 800-2400m.
Croton wigginsii	Wiggins' croton	None	Rare	2.2	BLM- Sensitive	Desert dunes, Sonoran desert scrub.	On sand dunes and sandy arroyos. 50-100m.
Calamagrostis foliosa	leafy reed grass	None	Rare	4.2	BLM- Sensitive	Coastal bluff scrub, North Coast coniferous forest.	Rocky cliffs and ocean-facing bluffs. 0-1220m. State-listed Rare. Element occurrences archived; CNPS List 4.
						Chaparral, cismontane woodland, lower montane coniferous forest, upper	Often on granitic substrate; sometimes also on soils from metamorphic rock. 420-1800m. Occ's archived; CNPS List
Carex tompkinsii	Tompkins' sedge	None	Rare	4.3		montane coniferous forest.	4.
Trifolium polyodon	Pacific Grove clover	None	Rare	1B.1	BLM- Sensitive	Closed-cone coniferous forest, meadows and seeps, coastal prairie.	Along small springs and seeps in grassy openings. 5-120m.
Eriogonum crocatum	Conejo buckwheat	None	Rare	1B.2		Chaparral, coastal scrub, valley and foothill grassland.	Conejo volcanic outcrops; rocky sites. 50-580m.
Dadia dada dudad	Dudlanta la cascad	Nana	Dava	1B.2	USFS-	Chaparral, North Coast coniferous	Deep shady woods of older coast redwood forests; also in
Pedicularis dudleyi	Dudley's lousewort	None	Rare	ID.Z	Sensitive	forest, valley and foothill grassland.	maritime chaparral. 100-490m.
					BLM- Sensitive;		Disturbed burned or cleared areas on dry, rocky slopes, in
Sidalcea hickmanii ssp. parishii	Parish's checkerbloom	None	Rare	1B.2	USFS- Sensitive	Chaparral, lower montane coniferous forest.	fuel breaks & fire roads along the mtn summits. 1000- 2135m.
					USFS-		
Eriogonum twisselmannii	Twisselmann's buckwheat	None	Rare	1B.2	Sensitive	Upper montane coniferous forest.	Dry, granitic outcrops. 2255-2800m.
					BLM- Sensitive;		
Eriastrum tracyi	Tracy's eriastrum	None	Rare	1B.2	USFS- Sensitive	Chaparral, cismontane woodland.	Gravelly shale or clay; often in open areas. 315-760m.
Endoudin adoyi		rtono	rta o	15.2	USFS-	Chaparral, cismontane woodland, lower	
Eriophyllum congdonii	Congdon's woolly sunflower	None	Rare	1B.2	Sensitive	montane coniferous forest.	In cracks in rock outcroppings, and on talus; sometimes with Quercus douglasii, Aesculus californica. 500-1900m.
					BLM-		
					Sensitive; USFS-		In sandy volcanic ash or pumice with sagebrush scrub. 2030-
Astragalus johannis-howellii	Long Valley milk-vetch	None	Rare	1B.2	Sensitive	Great Basin scrub.	2530m.
Bloomeria humilis	dwarf goldenstar	None	Rare	1B.2	USFS- Sensitive	Coastal bluff scrub, chaparral, valley and foothill grassland.	Known mainly from Arroyo de La Cruz area on coastal bluffs. 10-60m.
					BLM-		
					Sensitive; USFS-	Closed-cone coniferous forest,	On gabbro or metavolcanic soils; also known from
Calochortus dunnii Blennosperma nanum var.	Dunn's mariposa-lily Point Reyes	None	Rare	1B.2	Sensitive	chaparral.	sandstone; often assoc with chaparral. 375-1830m.
robustum	blennosperma	None	Rare	1B.2		Coastal prairie, coastal scrub.	On open coastal hills in sandy soil. 10-145m.
Deinandra minthornii	Santa Susana tarplant	None	Rare	1B.2	BLM- Sensitive	Chaparral, coastal scrub.	On sandstone outcrops and crevices, in shrubland. 280-760m.
			-			,	
					BLM- Sensitive;	Croat Rasin saruh unana mantana	
Astragalus monoensis	Mono milk-vetch	None	Rare	1B.2	USFS- Sensitive	Great Basin scrub, upper montane coniferous forest.	Pumice flats with sparse vegetative cover. 2110-3355m.

Scientific Name	Common name	Federal listing status	Calif listing status	CNPS List	Other Status	General Habitat	Micro-Habitat
					BLM-		
					Sensitive;		
Sidalcea hickmanii ssp. anomala	Cuesta Pass checkerbloom	None	Rare	1B.2	USFS- Sensitive	Closed-cone coniferous forest.	Rocky serpentine soil; associated with Sargent cypress forest. 600-800m.
						Coastal bluff scrub, coastal dunes,	Sandy, windswept ocean bluffs, gullied banks, and coastal
Astragalus traskiae	Trask's milk-vetch	None	Rare	1B.2		coastal scrub.	dunes. 5-245m.
Thermone is an exambed to	Canta Vaca falsa kusina	Nama	Dava	4D 2	USFS-	Chaparral. Includes T. macrophylla var.	In open areas such as fuel breaks, after burns; on sandstone.
Thermopsis macrophylla	Santa Ynez false lupine	None	Rare	1B.3	Sensitive	agnina, State-listed Rare. Broadleaved upland forest, chaparral,	420-2050m.
Allium yosemitense	Yosemite onion	None	Rare	1B.3	USFS- Sensitive	cismontane woodland, lower montane coniferous forest.	In pockets of wet soil or in wet cracks of metamorphic rock; also on slopes and walls. 535-2200m.
Amain yoseniterise	Toscilite olion	None	ruic	15.0	CCHSILIVE	connerous forest.	also on slopes and walls. 555 2255m.
					BLM- Sensitive:	Chaparral, lower montane coniferous	
					USFS-	forest, cismontane woodland, upper	North exposures; in crevices on slopes among rocks. Granitic
Lewisia congdonii Eriogonum giganteum var.	Congdon's lewisia Santa Barbara Island	None	Rare	1B.3	Sensitive	montane coniferous forest.	substrates. 600-2060m.
compactum	buckwheat	None	Rare	1B.3		Coastal bluff scrub.	Seabluffs; dry rocky outcrops and cliffs. 10-100m.
					BLM-		
					Sensitive;	Observed some bound of soft 'II	On an analysis and the deallest the state of
Eriastrum hooveri	Hoover's eriastrum	Delisted	None	4.2	USFS- Sensitive	Chenopod scrub, valley and foothill grassland, pinyon and juniper woodland.	On sparsely vegetated alkaline alluvial fans; also in the Temblor Range on sandy soils. 50-915m.
Leptosiphon rosaceus	rose leptosiphon Whitney's farewell-to-	None	None	1B.1		Coastal bluff scrub.	0-100m.
Clarkia amoena ssp. whitneyi	spring	None	None	1B.1		Coastal bluff scrub, coastal scrub.	10-100m.
Leptosiphon croceus	coast yellow leptosiphon	None	None	1B.1		Coastal bluff scrub, coastal prairie.	10-150m.
Carex constanceana	Constance's sedge	None	None	1B.1		Subalpine coniferous forest.	2000m.
Gilia capitata ssp. chamissonis	blue coast gilia	None	None	1B.1		Coastal dunes, coastal scrub.	2-200m.
Opuntia californica var.	_						
californica	snake cholla	None	None	1B.1		Chaparral, coastal scrub.	30-150m.
Calochortus syntrophus	Callahan's mariposa-lily	None	None	1B.1		Cismontane woodland.	525-855m.
Tropidocarpum californicum	Kings gold	None	None	1B.1		Chenopod scrub.	65m.
Astragalus preussii var.							Alkaline clay flats or gravelly or sandy washes and along
laxiflorus	Lancaster milk-vetch	None	None	1B.1		Chenopod scrub.	draws in gullied badlands. 725m in California.
Tranidacarnum cannaridaum	caper-fruited	None	None	1B.1	USFS-	Valley and footbill grandland	Alkalina alay 0 455m
Tropidocarpum capparideum	tropidocarpum	None	None	16.1	Sensitive	Valley and foothill grassland.	Alkaline clay. 0-455m.
Phacelia parishii	Parish's phacelia	None	None	1B.1	BLM- Sensitive	Mojavean desert scrub, playas.	Alkaline flats and slopes or on clay soils. 535-1200m.
i naccia parismi	T dilotto pridecila	None	IVOIIC	10.1	CCHSILIVE	ivojavean desert serab, piayas.	Principle hate and slopes of on day soils. 666-1266h.
					BLM- Sensitive;		
					USFS-	Cismontane woodland, pinyon-juniper	
Layia heterotricha	pale-yellow layia	None	None	1B.1	Sensitive	woodland, valley and foothill grassland.	Alkaline or clay soils; open areas. 270-1365 (2675)m. Alkaline soils, flats, lower hills. On low benches near
							drainages & on tops & sides of mounds in swale habitat. 1-
Isocoma arguta	Carquinez goldenbush	None	None	1B.1		Valley and foothill grassland. Great Basin scrub, Joshua tree	20m.
Plagiobothrys parishii	Parish's popcorn-flower	None	None	1B.1		woodland.	Alkaline soils; mesic sites. 750-1400m.
	diamond-petaled				BLM-		
Eschscholzia rhombipetala Solanum wallacei	California poppy Wallace's nightshade	None None	None None	1B.1 1B.1	Sensitive	Valley and foothill grassland. Chaparral, cismontane woodland.	Alkaline, clay slopes and flats. 0-975m. Canyons; rocky sites. 3-410m.
Columnia Wallace	Wallace 3 Highlanade	None	IVOIIC	10.1		onaparrai, dismontane woodiana.	Carryons, rooky sites. 6 410m.
Eriogonum microthecum var. lacus-ursi	Bear Lake buckwheat	None	None	1B.1	USFS- Sensitive	Lower montane coniferous forest.	Clay outcrops. 2000-2100m.
California macrophylla	round-leaved filaree	None	None	1B.1	BLM- Sensitive	Cismontane woodland, valley and foothill grassland.	Clay soils. 15-1200m.
Dudleya blochmaniae ssp.	Santa Rosa Island	Name	Nana	1B.1		Coastal bluff scrub.	Coastal bluffs; on rock flat near beach near mouth of creek.
insularis	dudleya	None	None	16.1		Coastai biuli scrub.	on.
Penstemon albomarginatus	white-margined beardtongue	None	None	1B.1	BLM- Sensitive	Mojavean desert scrub, desert dunes.	Deep stabilized desert sand, in washes and along roadsides. 635-1065m.
r ensternon abomarginatus	beardiorigue	None	None	10.1		ivojavean desert scrub, desert dunes.	Dry desert slopes and mesas, often sheltering under and
Astragalus atratus var. mensanus	Darwin Mesa milk-vetch	None	None	1B.1	BLM- Sensitive	Great Basin scrub, Joshua tree woodland, pinyon-juniper woodland.	entangled in shrubs, in volcanic clay and gravel. 1340- 1850m.
incriourius	Dai Will Wesa Hillik Veteri	None	IVOIIC	15.1	CCHSILIVE	woodiana, pinyon jumper woodiana.	
Blepharizonia plumosa	big tarplant	None	None	1B.1		Valley and foothill grassland.	Dry hills & plains in annual grassland. Clay to clay-loam soils; usually on slopes and often in burned areas. 15-455m.
Ворнанием ранноса	Dig tarpiant	110110	110110			-	,
Layia leucopappa	Comanche Point layia	None	None	1B.1	BLM- Sensitive	Chenopod scrub, valley and foothill grassland.	Dry hills in white-grey clay soils, often with weedy grasses. 100-350m.
	, .					Coastal scrub, chaparral, valley and	
Astragalus pachypus var. jaegeri	Jaeger's milk-vetch	None	None	1B.1	USFS- Sensitive	foothill grassland, cismontane woodland.	Dry ridges and valleys and open sandy slopes; often in grassland and oak-chaparral. 365-915m.
	-						
					BLM- Sensitive;		
Charizontha nessalassa seesalas	Parru'a aninoffacca	None	None	1D 1	USFS-	Coastal carub, aban	Dry slopes and flats; sometimes at interface of 2 veg types,
Chorizanthe parryi var. parryi	Parry's spineflower	None	None	1B.1	Sensitive	Coastal scrub, chaparral. Chaparral, coastal scrub, valley and	such as chap and oak wdland; dry, sandy soils. 40-1705m.
Eriogonum truncatum	Mt. Diablo buckwheat	None	None	1B.1		foothill grassland.	Dry, exposed clay or sandy substrates. 100-600m.
		1			BLM-		
Stylocline citroleum	oil neststraw	None	None	1B.1	Sensitive	Chenopod scrub, coastal scrub?	Flats, clay soils in oil-producing areas. 50-300m.

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Abronia umbellata ssp. breviflora	pink sand-verbena	None	None	1B.1	BLM- Sensitive	Coastal dunes and coastal strand.	Foredunes and interdunes with sparse cover. A. umb. breviflora is usually the plant closest to the ocean. 0-12m.
Horkelia hendersonii	Henderson's horkelia	None	None	1B.1	BLM- Sensitive; USFS- Sensitive	Upper montane coniferous forest.	Granitic peaks and talus slopes at high elevations. 2000- 2300m.
Clarkia concinna ssp. raichei	Raiche's red ribbons	None	None	1B.1	Sensitive	Coastal bluff scrub.	Highly exposed rocky bluffs with a near-vertical slope. 15m.
Ciarria concinna 35p. raichei	reaches rea hoboris	None	INOTIC	10.1		Closed-cone coniferous forest, coastal	riigniy exposed rocky bidiis witti a near-vertical slope. Tom.
Lilium maritimum	coast lily	None	None	1B.1		prairie, coastal scrub, broadleaved upland forest, North Coast coniferous forest. Chenopod scrub, playas, valley and	Historically in sandy soil, often on raised hummocks or bogs; today mostly in roadside ditches. 10-335m. In alkali sink and grassland in sandy, alkaline soils. 20-
Atriplex minuscula Corethrogyne filaginifolia var.	lesser saltscale	None	None	1B.1		foothill grassland.	100m. In coastal, shrubby communities on maritime sediments and
linifolia	Del Mar Mesa sand aster	None	None	1B.1		Chaparral, coastal scrub.	conglomerates. 30-150m.
Dudleya densiflora	San Gabriel Mountains dudleya	None	None	1B.1	USFS- Sensitive	Chaparral, coastal scrub, lower montane coniferous forest.	In crevices and on decomposed granite on cliffs and canyon walls. 300-520m.
Monardella douglasii ssp. venosa	veiny monardella	None	None	1B.1	BLM- Sensitive	Valley and foothill grassland, cismontane woodland.	In heavy clay; mostly with grassland associates. Rediscovered in 1992. 60-410m.
Allium marvinii	Yucaipa onion	None	None	1B.1	USFS- Sensitive	Chaparral.	In openings on clay soils. 760-1065m.
Draba asterophora var. macrocarpa	Cup Lake draba	None	None	1B.1	USFS- Sensitive	Subalpine coniferous forest.	In relatively deep soil in the shade of granitic rocks. 2600-2670m.
Ericameria fasciculata	Eastwood's goldenbush	None	None	1B.1	BLM- Sensitive	Closed-cone coniferous forest, chaparral (maritime), coastal scrub, coastal dunes.	In sandy openings. 30-275m.
Eschscholzia lemmonii ssp. kernensis	Tejon poppy	None	None	1B.1		Valley and foothill grassland.	Little information available on habitat. 250-750m.
Bloomeria clevelandii	San Diego goldenstar	None	None	1B.1	BLM- Sensitive	Chaparral, coastal 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.
Trifolium buckwestiorum	Santa Cruz clover	None	None	1B.1	BLM- Sensitive	Coastal prairie, broadleafed upland forest, cismontane woodland.	Moist grassland. 60-545m.
Lotus rubriflorus	red-flowered bird's-foot- trefoil	None	None	1B.1	BLM- Sensitive	Valley and foothill grassland, cismontane woodland.	Most recent sighting from sterile, red soils-volcanic mudflow deposits. 200-425m.
Corethrogyne filaginifolia var. incana	San Diego sand aster	None	None	1B.1		Coastal scrub, coastal bluff scrub, chaparral.	Most sites are disturbed, so hard to tell: possibly in disturbed sites and ecotones. 3-115m.
Hesperolinon sp. nov. "serpentinum"	Napa western flax	None	None	1B.1	BLM- Sensitive	Chaparral.	Mostly found in serpentine chaparral. 225-850m.
Madia radiata	showy golden madia	None	None	1B.1	BLM- Sensitive	Valley and foothill grassland, cismontane woodland, chenopod scrub.	Mostly on adobe clay in grassland or among shrubs. 25- 1125m.
Calochortus excavatus	Inyo County star-tulip	None	None	1B.1	BLM- Sensitive; USFS- Sensitive	Chenopod scrub, meadows (alkaline).	Mostly on fine, sandy loam soils with alkaline salts, grassy meadows in shadscale scrub. 1150-2000m.
Arabis constancei	Constance's rock-cress	None	None	1B.1	USFS- Sensitive	Chaparral, lower montane coniferous forest.	Mostly on open, bare, serpentine slopes and outcrops in chaparral and woodland. 975-2025m.
Clarkia tembloriensis ssp. calientensis	Vasek's clarkia	None	None	1B.1	BLM-	Valley and foothill grassland.	North-facing slopes with Isomeris, other Clarkia spp. 270- 335m.
Horkelia cuneata ssp. sericea	Kellogg's horkelia	None	None	1B.1	USFS- Sensitive	Closed-cone coniferous forest, coastal scrub, chaparral.	Old dunes, coastal sandhills; openings. 10-200m.
Echinocereus engelmannii var. howei	Howe's hedgehog cactus	None	None	1B.1	BLM- Sensitive	Mojavean desert scrub.	On desert hills and flats on well-drained rocky ledges and steep gravelly slopes. 500-770m.
Cryptantha ganderi	Gander's cryptantha	None	None	1B.1	BLM- Sensitive	Sonoran desert scrub, desert dunes.	On dunes and in washes. 170-400m.
Ericameria palmeri var. palmeri	Palmer's goldenbush	None	None	1B.1	BLM- Sensitive	Coastal scrub, chaparral.	On granitic soils, on steep hillsides. Mesic sites. 30-600m.
Horkelia wilderae	Barton Flats horkelia	None	None	1B.1	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest, chaparral.	On rocky, north aspects in openings that hold persistent snowdrifts. 1675-2925m.
Lotus nuttallianus	Nuttall's lotus	None	None	1B.1		Coastal dunes, coastal scrub.	On sand dunes; plants are threatened by encroachment of exotics. 0-10m.
Layia discoidea	rayless layia	None	None	1B.1	BLM- Sensitive	Chaparral, cismontane woodland, lower montane coniferous forest.	On serpentine alluvium and serpentine talus. 785-1585m.
Eriogonum kennedyi var. pinicola	Kern buckwheat	None	None	1B.1	BLM- Sensitive	Chaparral, pinyon and juniper woodland.	Open places on clay soil. 1400-1890m.
	Decade william in	Naza	None	40.4	BLM- Sensitive; USFS-	Observed and the second and the seco	Open, brushy south-facing slopes in Diegan coastal sage,
Astragalus deanei	Dean's milk-vetch	None	None	1B.1	Sensitive	Chaparral, coastal scrub, riparian forest.	sometimes on recently burned-over hillsides. 75-670m.

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					BLM-		
					Sensitive; USFS-	Chaparral, cismontane woodland, valley and foothill grassland, meadows and	Open, dry meadows, hillsides, gravelly outwashes. 215-
Calycadenia villosa	dwarf calycadenia	None	None	1B.1	Sensitive	seeps.	1275m.
Meconella oregana	Oregon meconella	None	None	1B.1		Coastal prairie, coastal scrub.	Open, moist places. 250-500m.
Dudleya blochmaniae ssp. blochmaniae	Blochman's dudleya	None	None	1B.1		Coastal scrub, coastal bluff scrub, valley and foothill grassland.	Open, rocky slopes; often in shallow clays over serpentine or in rocky areas w/little soil. 5-450m.
Pentachaeta aurea ssp. allenii	Allen's pentachaeta	None	None	1B.1		Valley and foothill grasslands, coastal scrub.	Openings in scrub or grassland.
Navarretia ojaiensis	Ojai navarretia	None	None	1B.1		Chaparral, coastal scrub, valley and foothill grassland.	Openings in shrublands or grasslands. 275-620m.
Sisyrinchium hitchcockii	Hitchcock's blue-eyed grass	None	None	1B.1		Cismontane woodland, valley and foothill grassland.	Openings in woodland or in grassland. 305 m in California.
Eriogonum nudum var. decurrens	Ben Lomond buckwheat	None	None	1B.1		Chaparral, cismontane woodland, lower montane coniferous forest.	Ponderosa pine sandhills in Santa Cruz County. 50-800m.
Fritillaria biflora var. ineziana	Hillsborough chocolate lily	None	None	1B.1		Cismontane woodland, valley and foothill grassland.	Probably on serpentine; most recent site is in serpentine grassland. 90-160m.
Thundrid Sinord Var. Inoclaria	r moser eagri enecolate my	rtono	110110			iodam gradolaria.	gradularia. Go Toom.
					BLM- Sensitive;		
Novementia antilaha	Piute Mountains	Nama	Nama	4D 4	USFS-	Cismontane woodland, pinyon-juniper	Red clay soils, other clay soils (?), or on gravelly loam. 300-
Navarretia setiloba	navarretia	None	None	1B.1	Sensitive	woodland, valley and foothill grassland.	1110m.
Deinandra halliana	Hall's tarplant	None	None	1B.1	BLM- Sensitive	Cismontane woodland, chenopod scrub, valley and foothill grassland.	Reported from a variety of substrates incl. clay, sand, and alkaline soils. 300-950m.
Sidalcea hickmanii ssp. napensis	Napa checkerbloom	None	None	1B.1		Chaparral.	Rhyolitic substrates. 415-610m.
парепаіз	тара спескегоютт	None	None	16.1		опарана.	Introduce substrates. 415-010m.
					BLM- Sensitive;		
					USFS-	Great Basin scrub, pinyon and juniper	Ridgetops in alkaline mountain meadows in clay soils; also
Phacelia monoensis	Mono County phacelia	None	None	1B.1	Sensitive	woodland, meadows and seeps.	roadsides. 1900-2900m.
Gilia capitata ssp. tomentosa Sedum oblanceolatum	woolly-headed gilia	None	None	1B.1		Coastal bluff scrub.	Rocky outcrops on the coast. 15-155m.
Sedum obianceolatum	Applegate stonecrop	None	None	1B.1		Upper montane coniferous forest.	Rocky sites. 400-2000m.
					BLM-		
					Sensitive; USFS-		
Abronia villosa var. aurita Lavatera assurgentiflora ssp.	chaparral sand-verbena	None	None	1B.1	Sensitive	Chaparral, coastal scrub	Sandy areas. 80-1600m. Sandy flats and rocky places. Mainland and Todos Santos
assurgentiflora	island mallow	None	None	1B.1		Coastal bluff scrub, coastal scrub.	Island plants probably planted. 15-245m.
Calyptridium parryi var.	Santa Cruz Mountains				BLM-		
hesseae	pussypaws	None	None	1B.1	Sensitive	Chaparral, cismontane woodland.	Sandy or gravelly openings. 305-1530m.
Horkelia cuneata ssp.					USFS-	Chaparral, cismontane woodland,	
puberula Heterotheca sessiliflora ssp.	mesa horkelia	None	None	1B.1	Sensitive	coastal scrub. Coastal dunes, coastal scrub, chaparral	Sandy or gravelly sites. 70-810m.
sessiliflora	beach goldenaster	None	None	1B.1		(coastal).	Sandy sites. 0-1224m.
					USFS-	Chaparral, lower montane coniferous	
Eriogonum evanidum Chaenactis glabriuscula var.	vanishing wild buckwheat	None	None	1B.1	Sensitive	forest, pinyon and juniper woodland.	Sandy sites. 970-2200m.
orcuttiana	Orcutt's pincushion	None	None	1B.1		Coastal bluff scrub, coastal dunes.	Sandy sites. 3-100m.
					BLM-		
Ancistrocarphus keilii	Santa Ynez groundstar	None	None	1B.1	Sensitive	Chaparral, cismontane woodland.	Sandy soils. 40-130m.
					BLM-	Coastal bluff scrub, coastal dunes, coastal prairie, lower montane	
Oenothera wolfii	Wolf's evening-primrose	None	None	1B.1	Sensitive	coniferous forest. Cismontane (oak) woodlands, lower	Sandy substrates; usually mesic sites. 3-800m.
Eriogonum umbellatum var. lautum	Scott Valley buckwheat	None	None	1B.1		montane coniferous forest.	Sandy to gravelly flats. 800-900m.
					BLM-	Chenopod scrub, pinyon-juniper	
Stylocline masonii Mimulus fremontii var.	Mason's neststraw Vandenberg	None	None	1B.1	Sensitive	woodland. Cismontane woodland, chaparral	Sandy washes. 100-1200m.
vandenbergensis	monkeyflower	None	None	1B.1		(Burton Mesa).	Sandy, often disturbed areas. 75-120m.
					BLM-		
					Sensitive;		
Harmonia doris-nilesiae	Niles' harmonia	None	None	1B.1	USFS- Sensitive	Lower montane coniferous forest, chaparral, cismontane woodland.	Serpentine barrens. 650-1660m.
Cryptantha clevelandii var.					BLM-		
dissita	serpentine cryptantha	None	None	1B.1	Sensitive	Chaparral.	Serpentine outcrops. 330-730m.
Hoita strobilina	Loma Prieta hoita	None	None	1B.1		Chaparral, cismontane woodland, riparian woodland.	Serpentine; mesic sites.
					LIOE2	Broadleafed upland forest, lower	
Lewisia serrata	saw-toothed lewisia	None	None	1B.1	USFS- Sensitive	montane coniferous forest, riparian forest.	Shaded, north-facing moss-covered, metamorphic rock cliffs. 900-1435m.
Phacelia argentea	sand dune phacelia	None	None	1B.1		Coastal dunes.	Stabilized and recently moving sand dunes. 3-25m.
					BLM-		Subalkaline flats on overflow land in the Central Valley;
Astragalus tener var. ferrisiae	Ferris' milk-vetch	None	None	1B.1	Sensitive	Meadows, valley and foothill grassland.	usually seen in dry, adobe soil. 5-75m.
Lomatium stebbinsii	Stebbins' lomatium	None	None	1B.1	USFS- Sensitive	Lower montane coniferous forest, chaparral.	Thin, gravelly volcanic clay in open yellow pine forest. Grows where other vegetation is absent. 1235-1850m.
Lomatium stepullisii	OCCUDING IONIALIUM	THORE	TAUTIC	10.1	Sensitive	onapattal.	micro outer vegetation to abbettit. 1200-1000ttt.
					BLM- Sensitive;		
Oladia are di "	Management 1	Maria	Mana	40.4	USFS-	Cismontane woodland, lower montane	Harring and the second
Clarkia mosquinii	Mosquin's clarkia	None	None	1B.1	Sensitive	coniferous forest.	Usually on steep, rocky cutbanks and slopes. 185-1170m.

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					BLM-		
					Sensitive;		
Juncus leiospermus var. leiospermus	Red Bluff dwarf rush	None	None	1B.1	USFS- Sensitive	Chaparral, valley and foothill grassland, cismontane woodlands, vernal pools.	Vernally mesic sites. Sometimes on edges of vernal pools. 30-1020m.
Nemacaulis denudata var. denudata	coast woolly-heads	None	None	1B.2		Coastal dunes.	0-100m.
deriddata	coast woolly-rieaus	None	None	16.2		Codstal dulles.	0-100111.
					BLM- Sensitive;		
Silene occidentalis ssp.					USFS-	Chaparral, lower montane coniferous	
longistipitata Eriogonum grande var.	long-stiped campion	None	None	1B.2	Sensitive	forest, upper montane coniferous forest. Coastal bluff scrub, coastal scrub,	1000-2000m.
rubescens	red-flowered buckwheat	None	None	1B.2		chaparral.	10-165m.
Castilleja densiflora ssp.	San Luis Obispo owl's-				BLM-		
obispoensis	clover	None	None	1B.2	Sensitive	Valley and foothill grassland.	10-215m.
Brodiaea californica var.	narrow-anthered					Broadleafed upland forest, chaparral,	
leptandra Lupinus elmeri	California brodiaea South Fork Mtn. lupine	None None	None None	1B.2 1B.2		lower montane coniferous forest. Lower montane coniferous forest.	110-915m. 1370-2000m.
Arabis hirshbergiae	Hirshberg's rock-cress	None	None	1B.2		Pebble (or pavement) plains.	1400m.
Calystegia purpurata ssp. saxicola	coastal bluff morning- glory	None	None	1B.2		Coastal dunes, coastal scrub.	15-105m.
Sidalcea malviflora ssp. purpurea	purple-stemmed checkerbloom	None	None	1B.2		Broadleafed upland forest, coastal prairie.	15-65m.
purpurcu	CHECKEIDIOOHI	None	IVOIC	TD.Z		prante.	10 00111.
Eriastrum harwoodii	Harwood's eriastrum	None	None	1B.2	BLM- Sensitive	Desert dunes.	200-915m.
Gilia millefoliata	dark-eyed gilia	None	None	1B.2	BLM- Sensitive	Coastal dunes.	2-20m.
Rosa pinetorum	pine rose	None	None	1B.2		Closed-cone coniferous forest.	2-300m.
					USFS-		
Clarkia delicata Chorizanthe xanti var.	delicate clarkia	None	None	1B.2	Sensitive	Cismontane woodland, chaparral. Mojavean desert scrub, pinyon-juniper	235-1000m.
leucotheca	white-bracted spineflower	None	None	1B.2		woodland.	300-1200m.
Deinandra increscens ssp. foliosa	leafy tarplant	None	None	1B.2		Valley and foothill grassland.	300-500m.
	,					,	
Aristocapsa insignis	Indian Valley spineflower	None	None	1B.2	BLM- Sensitive	Cismontane woodland.	300-600m.
Lonicera subspicata var.	Santa Barbara				USFS-	Chaparral, cismontane woodland,	
subspicata	honeysuckle	None	None	1B.2	Sensitive	coastal scrub.	35-1000m.
					BLM-		
Atriplex erecticaulis	Earlimart orache	None	None	1B.2	Sensitive	Valley and foothill grassland.	40-100m.
					USFS-		
Clarkia jolonensis	Jolon clarkia	None	None	1B.2	Sensitive	Cismontane woodland.	500m.
					BLM-	Cismontane woodland, valley and	
Amsinckia lunaris Galium catalinense ssp.	bent-flowered fiddleneck Santa Catalina Island	None	None	1B.2	Sensitive	foothill grassland.	50-500m.
catalinense	bedstraw	None	None	1B.2		Chaparral, coastal scrub.	5-300m.
						Closed-cone coniferous	
Microseris paludosa	marsh microseris	None	None	1B.2		forest, cismontane woodland, coastal scrub, valley and foothill grassland.	5-300m.
						Coastal bluff scrub, coastal prairie,	
Gilia capitata ssp. pacifica	Pacific gilia	None	None	1B.2		valley and foothill grassland.	5-300m.
Dissanthelium californicum	California dissanthelium	None	None	1B.2		Coastal scrub.	5-500m.
					USFS-	Closed-cone coniferous forest,	
Lepechinia cardiophylla Lasthenia californica ssp.	heart-leaved pitcher sage	None	None	1B.2	Sensitive	chaparral, cismontane woodland. Coastal bluff scrub, coastal dunes,	550-1370m.
macrantha	perennial goldfields	None	None	1B.2		coastal scrub.	5-520m.
					USFS-	Cismontane woodland, lower montane	
Iris hartwegii ssp. columbiana	Tuolumne iris	None	None	1B.2	Sensitive	coniferous forest.	600-1400m.
Malacothrix foliosa ssp. philbrickii	Philbrick's malacothrix	None	None	1B.2		Coastal scrub.	60-100m.
					USFS-		
Calystegia subacaulis ssp. episcopalis	Cambria morning-glory	None	None	1B.2	Sensitive	Chaparral, cismontane woodland.	60-500m.
					BLM-		
					Sensitive;		
Caulanthus coulteri var. Iemmonii	Lemmon's jewelflower	None	None	1B.2	USFS- Sensitive	Pinyon-juniper woodland, valley and foothill grassland.	80-1220m.
	,					,	
Phacelia phacelioides	Mt. Diablo phacelia	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland.	Adjacent to trails, on rock outcrops and talus slopes; sometimes on serpentine. 500-1370m.
Phacelia ciliata var. opaca	Merced phacelia	None	None	1B.2		Valley and foothill grassland.	Adobe or clay soils of valley floors, open hills, or alkaline flats. 60-150m.
	полоси римоена					vano, una roomiii grassiana.	
Lepidium jaredii ssp. album	Panoche pepper-grass	None	None	1B.2	BLM- Sensitive	Valley and foothill grassland.	Alkali bottoms, slopes, washes, alluvial fans; clay and gypsum-rich soils. 65-910m.
, ,	and a leafther Grand					, , , , , , , , , , , , , , , , , , , ,	
Lepidium jaredii ssp. jaredii	Jared's pepper-grass	None	None	1B.2	BLM- Sensitive	Valley and foothill grassland.	Alkali flats and sinks. Sandy, alkaline, sometimes adobe soils.

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Atriplex pacifica	South Coast saltscale	None	None	1B.2		Coastal scrub, coastal bluff scrub, playas, chenopod scrub.	Alkali soils. 1-500m.
Atriplex cordulata	heartscale	None	None	1B.2	BLM- Sensitive	Chenopod scrub, valley and foothill grassland, meadows.	Alkaline flats and scalds in the Central Valley, sandy soils. 1-150(600)m.
					BLM- Sensitive;		
Calochortus striatus	alkali mariposa-lily	None	None	1B.2	USFS- Sensitive	Chaparral, chenopod scrub, Mojavean desert scrub, meadows.	Alkaline meadows and ephemeral washes. 90-1595m.
Atriplex serenana var. davidsonii	Davidson's saltscale	None	None	1B.2		Coastal bluff scrub, coastal scrub.	Alkaline soil. 3-250m.
Centromadia parryi ssp. congdonii	Congdon's tarplant	None	None	1B.2	BLM- Sensitive	Valley and foothill grassland.	Alkaline soils, sometimes described as heavy white clay. 1-230m.
Streptanthus cordatus var. piutensis	Piute Mountains jewel- flower	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Broadleafed upland forests, closed-cone coniferous forest, pinyon-juniper woodland.	Along roadbanks and cliffs, metamorphic-red clay soils. 1095-1735m.
Phacelia stebbinsii	Stebbins' phacelia	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest, cismontane woodland, meadows and seeps, riparian woodland.	Among rocks and rubble on metamorphic rock benches. 605- 2050m.
Ribes viburnifolium	Santa Catalina Island currant	None	None	1B.2		Chaparral.	Among shrubs in canyons. 30-300m.
Navarretia nigelliformis ssp. radians	shining navarretia	None	None	1B.2	BLM- Sensitive	Cismontane woodland, valley and foothill grassland, vernal pools.	Apparently in grassland, and not necessarily in vernal pools. 200-1000m.
Xylorhiza orcuttii	Orcutt's woody-aster	None	None	1B.2	BLM- Sensitive	Sonoran desert scrub.	Arid canyons; often in washes. 265-365m.
Phacelia greenei	Scott Valley phacelia	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Closed-cone coniferous forest, lower montane coniferous forest, subalpine coniferous forest, upper montane conif forest.	Bare serpentine ridges and openings in yellow pine and red fir forest communities. 800-2440m.
Eriogonum temblorense	Temblor buckwheat	None	None	1B.2	BLM- Sensitive	Valley and foothill grassland.	Barren clay or sandstone substrates. 300-1000m.
					BLM- Sensitive; USFS-		
Layia jonesii Astragalus didymocarpus var.	Jones' layia	None	None	1B.2		Chaparral, valley and foothill grassland.	Clay soils and serpentine outcrops. 5-155m.
milesianus Allium peninsulare var.	Miles' milk-vetch	None	None	1B.2		Coastal scrub. Cismontane woodland, valley and	Clay soils. 20-90m.
franciscanum Chorizanthe cuspidata var.	Franciscan onion San Francisco Bay	None	None	1B.2		foothill grassland. Coastal bluff scrub, coastal dunes,	Clay soils; often on serpentine. dry hillsides. 100-300m. Closely related to C. pungens. Sandy soil on terraces and
cuspidata	spineflower	None	None	1B.2	BLM-	coastal prairie, coastal scrub. North coast coniferous forest, lower montane coniferous forest, broadleafed	slopes. 5-550m. Coast ranges from Santa Cruz County north; on serpentine. Forest duff, mossy banks, rock outcrops & muskeg. 0-
Piperia candida	white-flowered rein orchid	None	None	1B.2	Sensitive	upland forest. Closed-cone coniferous forest,	1200m.
Salvia brandegeei	Brandegee's sage	None	None	1B.2		chaparral, coastal scrub.	Coastal bluffs and seaward canyons. 5-200m.
Astragalus rattanii var. jepsonianus	Jepson's milk-vetch	None	None	1B.2	BLM- Sensitive	Cismontane woodland, valley and foothill grassland, chaparral.	Commonly on serpentine in grassland or openings in chaparral. 320-700m.
Camissonia hardhamiae	Hardham's evening- primrose	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Chaparral, cismontane woodland.	Decomposed carbonate. 330-500m.
	slender-stalked				BLM- Sensitive; USFS-		Disturbed places such as burns and RR grades; also on thin
Mimulus gracilipes	monkeyflower	None	None	1B.2	Sensitive	Chaparral.	granitic soil in cracks in large granite rocks. 500-1300m.
Phacelia novenmillensis	Nine Mile Canyon phacelia	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Broadleafed upland forest, pinyon and juniper woodland, upper montane coniferous forest, cismontane woodland.	Dry disturbed banks, granitic or metamorphic soils. 1635- 2530m.
Astragalus leucolobus	Big Bear Valley woollypod	None	None	1B.2		Lower montane coniferous forest, pebble plain, pinyon and juniper woodland, upper montane coniferous forest.	Dry pine woods, gravelly knolls among sagebrush, or stony lake shores in the pine belt. (425)1670-2515m.
Linanthus jaegeri	San Jacinto linanthus	None	None	1B.2	USFS- Sensitive	Subalpine coniferous forest, upper montane coniferous forest.	Dry rocky granitic outcrops; sheer, vertical habitat. 1815- 3050m.
Malacothamnus palmeri var. palmeri	Santa Lucia bush-mallow	None	None	1B.2	USFS- Sensitive	Chaparral.	Dry rocky slopes, mostly near summits, but occasionally extending down canyons to the sea. 60-365m.
Linanthus concinnus	San Gabriel linanthus	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest.	Dry rocky slopes, often in Jeffrey pine/canyon oak forest. 1575-2545m.
Eriogonum nudum var. murinum	mouse buckwheat	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland, valley and foothill grassland.	Dry sandy loam slopes in the Kaweah River drainage. 360- 1130m.
Mimulus mohavensis	Mojave monkeyflower	None	None	1B.2	BLM- Sensitive	Joshua tree woodland, Mojavean desert scrub.	Dry sandy or rocky washes along the Mojave River. 600- 1175m.

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					BLM-		
	Snow Mountain				Sensitive; USFS-		
Eriogonum nervulosum	buckwheat	None	None	1B.2		Chaparral.	Dry serpentine outcrops, balds, and barrens. 300-2100m.
Streptanthus howellii	Howell's jewel-flower	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest.	Dry serpentine slopes, in open pine woods or in brushy areas; on rocky soil. 300-1500m.
Leptosiphon serrulatus	Madera leptosiphon	None	None	1B.2	USFS- Sensitive	Cismontane woodland, lower montane coniferous forest.	Dry slopes; often on decomposed granite in woodland. 80- 1575m.
Lepidium virginicum var. robinsonii					Sensitive		
robinsonii	Robinson's pepper-grass	None	None	1B.2		Chaparral, coastal scrub.	Dry soils, shrubland. 1-945m.
						Great Basin scrub, pinyon-juniper	
Eriogonum prociduum	prostrate buckwheat	None	None	1B.2	USFS- Sensitive	woodland, upper montane coniferous forest.	Dry volcanic slopes and hills, (Jepson Manual says granite). 1300-2705m.
					BLM-		
					Sensitive; USFS-		Dry, grassy openings in chaparral or foothill woodland.
	white-stemmed clarkia	None	None	1B.2	Sensitive	Chaparral, cismontane woodland.	Sometimes on serpentine. 300-850m.
Astragalus lentiginosus var. kernensis	Kern Plateau milk-vetch	None	None	1B.2	USFS- Sensitive	Meadows, subalpine coniferous forest.	Dry, gravelly or sandy slopes or flats. 2350-2600m.
Astragalus oophorus var.					BLM-		
lavinii	Lavin's milk-vetch	None	None	1B.2	Sensitive	Great Basin scrub.	Dry, open areas. 2450-3050m.
Calochortus weedii var. vestus	late-flowered mariposa-lily	None	None	1B.2	USFS- Sensitive	Chaparral, cismontane woodland.	Dry, open coastal woodland, chaparral; on serpentine. 270-1910m.
Navarretia rosulata	Marin County navarretia	None	None	1B.2		Closed-cone coniferous forest, chaparral.	Dry, open rocky places; can occur on serpentine. 200-635m.
Calochortus weedii var.					USFS-	Coastal scrub, chaparral, valley and	
intermedius	intermediate mariposa-lily	None	None	1B.2	Sensitive	foothill grassland.	Dry, rocky open slopes and rock outcrops. 120-850m.
Senecio clevelandii var. heterophyllus	Red Hills ragwort	None	None	1B.2	BLM- Sensitive	Cismontane woodland.	Drying serpentine soils; often along streams. 255-385m.
Collinsia corymbosa	round-headed Chinese- houses	None	None	1B.2		Coastal dunes, coastal prairie.	Dunes and coastal prairie. 10-30m.
, , , , , , , , , , , , , , , , , , , ,					USFS-		Endemic to serpentine, only known from upper, north-facing
Minuartia decumbens	The lassics sandwort	None	None	1B.2	Sensitive	montane coniferous forest.	slopes under Jeffrey pines. 1500-1600m.
Cusickiella quadricostata	Bodie Hills cusickiella	None	None	1B.2	BLM- Sensitive	Great Basin scrub, pinyon-juniper woodland.	Endemic to the Walker River drainage; mainly confined to the shallow decomposed granite or clay soils. 1985-2800m.
Ousickiciia quauricostata	Bodie i ilia edalekielia	recinc	None	ID.E	USFS-	Lower montane coniferous forest,	
Lewisia disepala	Yosemite lewisia	None	None	1B.2	Sensitive	pinyon-juniper woodland, upper montane coniferous forest.	Fine gravel on rock outcrops, ridges, or domes. Granitic soils. 1560-2610m.
Grindelia hirsutula var. hallii	San Diego gumplant	None	None	1B.2		Meadows, valley and foothill grassland, chaparral, lower montane coniferous forest.	Frequently occurs in low moist areas in meadows; assoc spp commonly incl Wyethia, Ranunculus, Sidalcea. 180-1660m.
	San Diego gumpiant	None	None	10.2	LICEC		commonly increvieus, realiunculus, Sidaleea. 100-1000m.
Chorizanthe polygonoides var. longispina	long-spined spineflower	None	None	1B.2	USFS- Sensitive	Chaparral, coastal scrub, meadows, valley and foothill grassland.	Gabbroic clay. 30-1450m.
A cabic constabil	Desireble and access	Maria	None	40.0	USFS-	Pebble plain, pinyon-juniper woodland,	Generally found on pebble plains on clay soil w/quartzite
Arabis parishii	Parish's rock-cress	None	None	1B.2	Sensitive	upper montane coniferous forest.	cobbles; sometimes on limestone. 1770-2900m.
Galium serpenticum ssp. scotticum	Scott Mountain bedstraw	None	None	1B.2	BLM- Sensitive	Lower montane coniferous forest.	Generally on N-facing slopes on serpentine in mixed conifer forest. 1000-2075m.
					USFS-		
	Barron's buckwheat	None	None	1B.2	Sensitive	Upper montane coniferous forest.	Glaciated andesite, rocky or sandy sites. 2010-2025m. Granitic or rhyolitic substrates; usually in washes. 975-
Prunus eremophila	Mojave Desert plum	None	None	1B.2		Mojavean desert scrub.	1175m.
Hulsea brevifolia	short-leaved hulsea	None	None	1B.2	USFS- Sensitive	Upper montane coniferous forest.	Granitic or volcanic soil of forest openings and road cuts. 1500-2700m.
					BLM-		Granitic outcrops and sandy bare soil, often in disturbed
Malacothamnus aboriginum	Indian Valley bush-mallow	None	None	1B.2	Sensitive	Cismontane woodland, chaparral.	soils. 150-1700m.
Arabis johnstonii	Johnston's rock-cress	None	None	1B.2	USFS- Sensitive	Chaparral, lower montane coniferous forest.	Granitic soil with pleistocene,non-marine clay deposits. With Adenostoma, Quercus wislizenii. 1350-2150m.
					BLM-	Joshua tree woodland, Mojavean desert	Granitic soils; sandy or rocky areas on steep slopes or flats.
Phacelia nashiana	Charlotte's phacelia	None	None	1B.2	Sensitive	scrub, pinyon-juniper woodland.	600-2200m.
					BLM- Sensitive;		
Pentachaeta exilis ssp. aeolica	San Benito pentachaeta	None	None	1B.2	USFS- Sensitive	Cismontane woodland, valley and foothill grassland.	Grassy areas. 635-855m.
						Lower montane coniferous forest, chaparral, meadows, valley and foothill	
Horkelia bolanderi	Bolander's horkelia	None	None	1B.2		grassland.	Grassy margins of vernal pools and meadows. 450-850m.
Lessingia arachnoidea	Crystal Springs lessingia	None	None	1B.2		Coastal sage scrub, valley and foothill grassland, cismontane woodland.	Grassy slopes on serpentine; sometimes on roadsides. 60-200m.
Hemizonia congesta ssp.	seaside tarplant	None	None	1B.2		Coastal scrub, valley and foothill grassland.	Grassy valleys and hills, often in fallow fields. 25-200m.

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					BLM- Sensitive;		
Malacothamnus palmeri var. lucianus	Arroyo Seco bush-mallow	None	None	1B.2	USFS- Sensitive	Chaparral, meadows and seeps.	Gravel banks and sandstone rocks on west-facing slopes in full sun. 10-915m.
Malacothamnus arcuatus	arcuate bush-mallow	None	None	1B.2		Chaparral.	Gravelly alluvium. 80-355m.
Cordylanthus tenuis ssp. pallescens	pallid bird's-beak	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Lower montane coniferous forest.	Gravelly openings in brush patches next to coniferous forest; on volcanic alluvium. 690-1600m.
					BLM-		
Mimulus evanescens	ephemeral monkeyflower	None	None	1B.2	Sensitive; USFS-	Great Basin scrub, lower montane coniferous forest, pinyon-juniper woodland.	Gravelly or rocky sites; vernally mesic. 1250-1700m.
Galium glabrescens ssp.					BLM- Sensitive; USFS-		Gravelly slopes and under the edges of rocks; sandy clay
modocense	Modoc bedstraw	None	None	1B.2		Great Basin scrub.	soil. 1575-2800m.
Eucephalus vialis	wayside aster	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest.	Gravelly substrates. 910-1545m.
Cryptantha circumscissa var. rosulata	rosette cushion cryptantha	None	None	1B.2		Alpine boulder and rock fields, subalpine coniferous forests.	Gravelly, granitic substrates. 2950-3660m.
					BLM- Sensitive; USFS-	Great Basin scrub, pinyon-juniper woodland, upper montane coniferous	Gravelly, shallow volcanic ash on barren ridges. 1500-
Ivesia paniculata	Ash Creek ivesia	None	None	1B.2	Sensitive	forest.	1915m.
Layia munzii	Munz's tidy-tips	None	None	1B.2	BLM- Sensitive	Chenopod scrub, valley and foothill grassland.	Hillsides, in white-grey alkaline clay soils, w/grasses and chenopod scrub associates. 45-760m.
Mimulus pictus	calico monkeyflower	None	None	1B.2	BLM- Sensitive	Broadleafed upland forest, cismontane woodland.	In bare ground around gooseberry bushes or around granite rock outcrops. 100-1300m.
Sphaeralcea rusbyi var. eremicola	Rusby's desert-mallow	None	None	1B.2	BLM- Sensitive	Mojavean desert scrub, Joshua tree woodland.	In creosote bush scrub, blackbush scrub, Joshua tree woodland; sometimes on carbonate; sometimes in washes. 965-1500m.
Sedum albomarginatum	Feather River stonecrop	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Chaparral, lower montane coniferous forest.	In crevices and on ledges of serpentine outcrops and slopes. 300-1585m.
Epilobium nivium	Snow Mountain willowherb	None	None	1B.2	USFS- Sensitive	Upper montane coniferous forest, chaparral.	In crevices of rocky outcrops, and dry talus and shale slopes. 785-2500m.
Enceliopsis covillei	Panamint daisy	None	None	1B.2	BLM- Sensitive	Mojavean desert scrub.	In deposits of subalkaline, clayish soil on dry canyon floors or slopes. 400-1830m.
Ribes menziesii var. ixoderme	aromatic canyon gooseberry	None	None	1B.2		Chaparral, cismontane woodland.	In forest openings. 610-1160m.
					BLM- Sensitive; USFS-	Chaparral, coastal scrub, valley and	
Dudleya multicaulis	many-stemmed dudleya	None	None	1B.2	Sensitive	foothill grassland.	In heavy, often clayey soils or grassy slopes. 0-790m.
Baccharis plummerae ssp. glabrata	San Simeon baccharis	None	None	1B.2	USFS- Sensitive	Coastal scrub.	In open shrub-grassland associations. 90-375m.
Ivesia argyrocoma	silver-haired ivesia	None	None	1B.2	USFS- Sensitive	Meadows, pebble plains, upper montane coniferous forest.	In pebble plains and meadows with other rare plants. 1480- 2680m.
Dudleya candelabrum	candleholder dudleya	None	None	1B.2		Coastal scrub.	In rock walls and crevices, and on canyon sides. 4-535m.
Dudleya variegata	variegated dudleya	None	None	1B.2	BLM- Sensitive	Chaparral, coastal scrub, cismontane woodland, valley and foothill grassland.	In rocky or clay soils; sometimes associated with vernal pool margins. 3-550m.
Camissonia sierrae ssp. alticola	Mono Hot Springs evening-primrose	None	None	1B.2	USFS- Sensitive	Upper montane coniferous forest.	In sand or gravel over granite in mixed conifer forest; with Gayophytum, Collinsia, etc. 2120-2335m.
Cirsium fontinale var. campylon	Mt. Hamilton fountain thistle	None	None	1B.2	BLM- Sensitive	Cismontane woodland, chaparral, valley and foothill grassland.	In seasonal and perennial drainages on serpentine. 95-890m. In stands of knobcone pine-oak woodland, on open wooded
Lupinus sericatus	Cobb Mountain lupine	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland, lower montane coniferous forest.	In stands of knobcone pine-oak woodland, on open wooded slopes in gravelly soils; sometimes on serpentine. 180-1500m.
					BLM- Sensitive;		
Galium serpenticum ssp. warnerense	Warner Mountains bedstraw	None	None	1B.2	USFS- Sensitive	Subalpine coniferous forest, meadows.	In talus or in rock crevices or at base of rocks. 1450-2750m.
Delphinium californicum ssp. interius	Hospital Canyon larkspur	None	None	1B.2		Cismontane woodland, chaparral.	In wet, boggy meadows, openings in chaparral and in canyons. 225-1060m.
Calochortus clavatus var.	Pleasant Valley mariposa-				BLM- Sensitive; USFS-		Josephine silt loam and volcanically derived soil; often in
avius	lily	None	None	1B.2	Sensitive	Lower montane coniferous forest.	rocky areas. 305-1700m. Known only from 2 sites in Butte County in the vicinity of
Trifolium jokerstii	Butte County golden clover	None	None	1B.2	BLM- Sensitive	Valley and foothill grassland, vernal pools.	Table Mtn in grassland & swales near oak woodland. 50-385m.
Gilia yorkii	Monarch gilia	None	None	1B.2		Chaparral, cismontane woodland.	Limestone outcrops. 1290-1830m.

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Atriplex subtilis	subtle orache	None	None	1B.2	BLM- Sensitive	Valley and foothill grassland.	Little info available. Madrono Vol. 44 No.2 only source currently. 40-100m.
Pholisma sonorae	sand food	None	None	1B.2	BLM- Sensitive	Desert dunes.	Loose, deep sand dunes, usu on the more stable, windward face. 0-200m.
Ivesia campestris	field ivesia	None	None	1B.2		Subalpine coniferous forest, upper montane coniferous forest, meadows.	Meadow edges. 2200-3100m.
					BLM- Sensitive; USFS-	Broadleaved upland forest, lower	
Calochortus westonii	Shirley Meadows star-tulip	None	None	1B.2	Sensitive	montane coniferous forest, meadows. Great Basin scrub, Joshua tree	Meadows, open woodlands; granite substrates. 1500-2060m. Mesas and stony hillsides, in stiff, calcareous clay soils, commonly among or sheltering under sagebrush. 890-
Astragalus cimae var. cimae	Cima milk-vetch	None	None	1B.2	USFS-	woodland, pinyon-juniper woodland.	1850m. Mesic microsites in open areas on clay soils in stipa grassland. Often surrounded by Adenostoma chaparral. 730
Sibaropsis hammittii	Hammitt's clay-cress	None	None	1B.2	Sensitive BLM-	Valley and foothill grassland, chaparral.	1065m.
Lewisia cantelovii	Cantelow's lewisia	None	None	1B.2		Broadfleafed upland forest, lower montane coniferous forest, cismontane woodland, chaparral.	Mesic rock outcrops and wet cliffs, usually in moss or clubmoss; on granitics or sometimes on serpentine. 330-1340m.
Plagiobothrys chorisianus var. chorisianus	Choris' popcorn-flower	None	None	1B.2		Chaparral, coastal scrub, coastal prairie.	Mesic sites. 15-100m.
Lupinus latifolius var. barbatus	bearded lupine	None	None	1B.2	USFS- Sensitive	Upper montane coniferous forest. Coastal bluff scrub, chaparral, coastal	Mesic sites. 1500-2500m. Moist north-facing canyon walls, rocky banks, and sea-cliffs.
Heuchera maxima	island alumroot	None	None	1B.2		scrub.	5-500m.
Rorippa columbiae	Columbia yellow cress	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Pinyon-juniper woodland, meadows and seeps, playas.	Moist sandy soil, low gravelly river banks, basaltic lava slopes. 360-1800m.
Schizymenium shevockii	Shevock's copper moss	None	None	1B.2		Cismontane woodland.	Moss on metamorphic rocks, mesic sites. On rocks along roads, in same habitat as Mielichhoferia elongata. 750-1400m.
Tortula californica	California screw moss	None	None	1B.2	BLM- Sensitive	Chenopod scrub, valley and foothill grassland.	Moss growing on sandy soil. 10-1460m.
Triquetrella californica	coastal triquetrella	None	None	1B.2	DIM	Coastal bluff scrub, coastal scrub.	Moss growing on soil. 10-100m.
Eriophyllum mohavense	Barstow woolly sunflower	None	None	1B.2	BLM- Sensitive	Desert chenopod scrub, Mojavean desert scrub, desert playas.	Mostly in open, silty or sandy areas w/saltbush scrub, or creo. bush scrub. Barren ridges or margins of playas. 500-900m
Mimulus shevockii	Kelso Creek monkeyflower	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Joshua tree woodland, pinyon-juniper woodland.	Mostly known from Joshua tree-xeric conifer woodland in the high desert, in loose, granitic sandy soil. 825-1340m.
Chlorogalum grandiflorum	Red Hills soaproot	None	None	1B.2	BLM- Sensitive	Cismontane woodland, chaparral, lower montane coniferous forest.	Occurs frequently on serpentine or gabbro, but also on non- ultramafic substrates; often on "historically disturbed" sites. 240-760m.
Monardella hypoleuca ssp. lanata	felt-leaved monardella	None	None	1B.2	USFS- Sensitive	Chaparral, cismontane woodland.	Occurs in understory in mixed chaparral, chamise chaparral, and southern oak woodland; sandy soil. 300-1575m.
Calochortus plummerae	Plummer's mariposa-lily	None	None	1B.2	USFS- Sensitive	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, lower montane coniferous forest.	Occurs on rocky and sandy sites, usually of granitic or alluvial material. Can be very common after fire. 90-1610m.
Calochortus clavatus var. recurvifolius	Arroyo de la Cruz mariposa-lily	None	None	1B.2		Coastal bluff scrub, maritime chaparral, coastal prairie, lower montane coniferous forest.	Ocean bluffs, grassy slopes, above riparian zones and in grassland bordering chaparral. 10-125m.
Atriplex coulteri	Coulter's saltbush	None	None	1B.2		Coastal bluff scrub, coastal dunes, coastal scrub, valley and foothill grassland.	Ocean bluffs, ridgetops, as well as alkaline low places. 10- 440m.
					BLM- Sensitive;		
Deinandra floribunda	Tecate tarplant	None	None	1B.2	USFS- Sensitive	Chaparral, coastal scrub.	Often in little drainages or disturbed areas. 70-1220m.
Trichostema ruygtii	Napa bluecurls	None	None	1B.2		Cismontane woodland, chaparral, valley and foothill grassland, vernal pools, lower montane coniferous forest.	Often in open, sunny areas. Also has been found in vernal pools. 30-590m.
Clarkia biloba ssp.					BLM- Sensitive; USFS-		
brandegeeae	Brandegee's clarkia	None	None	1B.2	Sensitive	Chaparral, cismontane woodland.	Often in roadcuts. 295-885m.
Hesperolinon breweri	Brewer's western flax	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland, valley and foothill grassland.	Often in rocky serpentine soil in serpentine chaparral and serpentine grassland. 30-885m.
Calochortus obispoensis	La Panza mariposa-lily	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Chaparral, coastal scrub, valley and foothill grassland.	Often in serpentine grassland. 75-665m.

Scientific Name	Common name	Federal listing status	Calif listing status	CNPS List	Other Status	General Habitat	Micro-Habitat
					BLM-		
					Sensitive;	December of the second	Office and development of the second of the
Erythronium tuolumnense	Tuolumne fawn lily	None	None	1B.2	USFS- Sensitive	Broadleaved upland forest, chaparral, lower montane coniferous forest.	Often on clay soils; on cliffs and near drainages. 510- 1460m.
Silene verecunda ssp.						Coastal scrub, valley and foothill grassland, coastal bluff scrub, chaparral,	Often on mudstone or shale; one site on serpentine. 30-
verecunda	San Francisco campion	None	None	1B.2		coastal prairie. Coastal bluff scrub, coastal scrub,	645m.
	Mendocino Coast				BLM-	coastal prairie, closed-cone coniferous	Often on sea bluffs or cliffs in coastal bluff scrub or prairie. 0-
Castilleja mendocinensis	paintbrush	None	None	1B.2	Sensitive	forest, coastal dunes.	160m.
Fritillaria liliacea	fragrant fritillary	None	None	1B.2	USFS- Sensitive	Coastal scrub, valley and foothill grassland, coastal prairie.	Often on serpentine; various soils reported though usually clay, in grassland. 3-410m.
	,				BLM-	,	
Monardella crispa	crisp monardella	None	None	1B.2		Coastal dunes, coastal scrub.	Often on the borders of open, sand areas, usually adjacent to typical backdune scrub vegetation. 5-120m.
					BLM-	Chenopod scrub, valley and foothill	On alkaline soils; often in valley saltbush or valley chenopod
Delphinium recurvatum	recurved larkspur	None	None	1B.2	Sensitive	grassland, cismontane woodland.	scrub. 3-685m.
					BLM-		
					Sensitive; USFS-	Broadleafed upland forest, cismontane	
Eriastrum luteum	yellow-flowered eriastrum	None	None	1B.2	Sensitive	woodland, chaparral.	On bare sandy decomposed granite slopes. 360-1000m.
Education of house discussion	December of street	None	Mana	40.0	BLM-	Ohannan I alaman kan an an allam k	On home with a discount of the same and the
Eriastrum brandegeeae	Brandegee's eriastrum	None	None	1B.2	Sensitive	Chaparral, cismontane woodland.	On barren volcanic soils; often in open areas. 345-1000m.
Aphanisma blitoides	aphanisma	None	None	1B.2		Coastal bluff scrub, coastal dunes, coastal scrub.	On bluffs and slopes near the ocean in sandy or clay soils. In steep decline on the islands and the mainland. 1-305m.
,					USFS-		
Arabis breweri var. pecuniaria	San Bernardino rock-cress	None	None	1B.2	Sensitive	Subalpine coniferous forest.	On cliffs and talus slopes. 2700-3200m.
Collinsia multicolor	San Francisco collinsia	None	None	1B.2		Closed-cone coniferous forest, coastal scrub.	On decomposed shale (mudstone) mixed with humus. 30- 250m.
					DIM		
					BLM- Sensitive;		
Rupertia hallii	Hall's rupertia	None	None	1B.2	USFS- Sensitive	Cismontane woodland, lower montane coniferous forest.	On disturbed soils of roadsides and logged forests. 1000- 1400m.
Cirsium occidentale var. compactum	compact cobwebby thistle	None	None	1B.2		Chaparral, coastal dunes, coastal prairie, coastal scrub.	On dunes and on clay in chaparral; also in grassland. 5- 155m.
сотрасит	compact cobwebby thatic	None	redic	15.2		Joshua tree woodland, Mojavean desert	
Cymopterus deserticola	desert cymopterus	None	None	1B.2	BLM- Sensitive	scrub. Most occurrences located near or in Edwards AFB.	On fine to coarse, loose, sandy soil of flats in old dune areas with well-drained sand. 625-910m.
Dudleya cymosa ssp.					USFS-		On limestone on S-facing slope w/ Arabis, Cercocarpus,
costafolia	Pierpoint Springs dudleya	None	None	1B.2	Sensitive	Chaparral, cismontane woodland.	Fremontodendron, etc. 1030-1455m.
					USFS-	Coastal scrub, coastal bluff scrub,	
Dudleya viscida	sticky dudleya	None	None	1B.2	Sensitive	chaparral.	On north and south-facing cliffs and banks. 10-550m.
Draba asterophora var. asterophora	Tahoe draba	None	None	1B.2	USFS- Sensitive	Alpine boulder and rock field, subalpine coniferous forest.	On open talus slopes, rock outcrops and crevices. On decomposed granite. 2500-3505m.
	Tanoc draba	None	redic	15.2		connerous forest.	accomposed granite. 2000 0000m.
Delphinium parryi ssp. blochmaniae	dune larkspur	None	None	1B.2	BLM- Sensitive	Chaparral, coastal dunes (maritime).	On rocky areas and dunes. 30-375m.
Crossosoma californicum	Catalina crossosoma	None	None	1B.2		Chaparral, coastal scrub.	On rocky sea bluffs, wooded canyons, and dry, open sunny spots on rocky clay. 0-500m.
Dudleya abramsii ssp.				1B.2		Coastal scrub, valley and foothill grassland, chaparral.	On rocky, barren exposures of serpentine within scrub vegetation. 20-180m.
bettinae	Betty's dudleya	None	None	16.2		9	3,
Delphinium hutchinsoniae	Hutchinson's larkspur	None	None	1B.2	USFS- Sensitive	Broadleafed upland forest, chaparral, coastal prairie, coastal scrub.	On semi-shaded, slightly moist slopes, usually west-facing. 0 365m.
Triphysaria floribunda	San Francisco owl's- clover	None	None	1B.2		Coastal prairie, valley and foothill grassland.	On serpentine and nonserpentine substrate (such as at Pt. Reyes). 10-160m.
mpnysana nonbanda	Ciovei	None	redic	15.2		grassiand.	itoyos). 10 100ii.
					BLM- Sensitive;		
Allium jepsonii	Jepson's onion	None	None	1B.2	USFS- Sensitive	Cismontane woodland, lower montane coniferous forest.	On serpentine soils in Sierra foothills, volcanic soil on Table Mtn. on slopes and flats; usu in an open area. 450-1130m
r unan jopoonii	oopeen o emen	110110	110110	15.2		oormorede toreet.	
Monardella palmeri	Palmer's monardella	None	None	1B.2	USFS- Sensitive	Cismontane woodland, chaparral.	On serpentine, often found associated with Sargent cypress forests. 200-800m.
Calochortus raichei	The Cedars fairy-lantern	None	None	1B.2		Closed-cone coniferous forest, chaparral.	On serpentine. Usually on shaded slopes, but also on barrens and talus. 200-395m.
Frangula purshiana ssp.	, , , , , , , , , , , , , , , , , , , ,					Lower montane coniferous forest, upper	
ultramafica	Caribou coffeeberry	None	None	1B.2		montane coniferous forest, chaparral.	On serpentine. 825-1930m.
					BLM-		
					Sensitive; USFS-	Chaparral, cismontane woodland, lower	
Fritillaria falcata	talus fritillary	None	None	1B.2	Sensitive	montane coniferous forest.	On shale, granite, or serpentine talus. 300-1525m.
					BLM-		On steep shale talus with open southwestern exposure. 530-
Coreopsis hamiltonii	Mt. Hamilton coreopsis	None	None	1B.2	Sensitive	Cismontane woodland.	1300m.
Managadalla 2000 "	Otable in a second	None	Maria	40.6	USFS-	Broadleaved upland forest, chaparral,	On steep, loose slopes of generally reddish serpentine talus
Monardella stebbinsii	Stebbins' monardella	None	None	1B.2	Sensitive	lower montane coniferous forest.	and boulders. 750-1100m.

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					BLM-		
					Sensitive;	Mandaus since and insince used land	On unlanding subsequence and once the prescribe acids 4025
Calochortus greenei	Greene's mariposa-lily	None	None	1B.2	USFS- Sensitive	upper montane coniferous forest.	On volcanic outcrops and open, dry, gravelly soils. 1035- 1890m.
						Chaparral, cismontane woodland, riparian woodland, valley and foothill	
Calochortus pulchellus	Mt. Diablo fairy-lantern	None	None	1B.2		grassland. Broadleafed upland forest, closed-cone	On wooded and brushy slopes. 200-800m.
Stebbinsoseris decipiens	Santa Cruz microseris	None	None	1B.2		coniferous forest, chaparral, coastal prairie, coastal scrub.	Open areas in loose or disturbed soil, usu. derived from sandstone, shale or serp., on seaward slopes. 10-500m.
Steppinsosens decipiens	Santa Cruz microsens	None	None	16.2		prame, coastal scrub.	sanustone, shale of serp., on seaward slopes. 10-500m.
					BLM- Sensitive;		!
Lupinus ludovicianus	San Luis Obispo County lupine	None	None	1B.2	USFS-	Chaparral, cismontane woodland.	Open areas in sandy soil, Santa Margarita formation. 50-525m.
					BLM- Sensitive;		
Astragalus webberi	Webber's milk-vetch	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest.	Open brushy slopes and flats in xeric pine forest or mixed pine-oak forest. 800-1220m.
						Cismontane woodland, chaparral,	Open chaparral and low, open oak forest; on rocky slopes;
Galium grande	San Gabriel bedstraw	None	None	1B.2	USFS- Sensitive	broadleafed upland forest, lower montane coniferous forest.	probably undercollected due to inaccessible hab. 425- 1200m.
					BLM-	Coastal prairie, broadleafed upland	
Sidalcea malviflora ssp. patula	Siskiyou checkerbloom	None	None	1B.2	Sensitive	forest.	Open coastal forest. 15-65m.
					USFS-	Cismontane woodland, valley and	Open grassy meadows within oak woodland and grassland
Tracyina rostrata Phacelia insularis var.	beaked tracyina	None	None	1B.2	Sensitive	foothill grassland.	habitats. 150-500m.
continentis	North Coast phacelia	None	None	1B.2		Coastal bluff scrub, coastal dunes.	Open maritime bluffs, sandy soil. 10-160m.
Managed la fallatti:	Callattia managadalla	Nama	Nama	4D 2	USFS-	I avva mantana analfanava fanat	Once wells consenting planes. COD 2000m
Monardella follettii	Follett's monardella	None	None	1B.2	Sensitive	Lower montane coniferous forest.	Open rocky serpentine slopes. 600-2000m.
Lupinus spectabilis	shaggyhair lupine	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland.	Open rocky slopes of serpentine. Mostly in serpentine chaparral surr. by grey pine woodland. 260-800m.
				1B.2			Open to partially shaded grassy slopes. on volcanics or the
Leptosiphon jepsonii	Jepson's leptosiphon	None	None	16.2		Chaparral, cismontane woodland.	periphery of serpentine substrates. 100-500m. Open to partially shaded openings in Pinus coulteri-oak
Lomatium observatorium	Mt. Hamilton lomatium	None	None	1B.2		Cismontane woodland.	woodland. Sedimentary franciscan rocks & volcanics. 1219- 1330m.
					BLM-		
Balsamorhiza lanata	woolly balsamroot	None	None	1B.2	Sensitive	Cismontane woodland.	Open woods, grassy slopes. (575)800-1050m.
					USFS-	Subalpine coniferous forest, upper montane coniferous forest, broadleafed	
Oreonana purpurascens	purple mountain-parsley	None	None	1B.2	Sensitive	upland forest.	Open, metamorphic ridgetops in red fir forest. 2360-2900m.
					BLM-		
					Sensitive; USFS-	Cismontane woodland, lower montane	Open, rocky sites in conifer forest or oak woodland. 900-
Clarkia australis	Small's southern clarkia	None	None	1B.2	Sensitive	coniferous forest.	2060m.
Castilleja rubicundula ssp. rubicundula	pink creamsacs	None	None	1B.2	BLM- Sensitive	Chaparral, meadows and seeps, valley and foothill grassland.	Openings in chaparral or grasslands. On serpentine. 20- 900m.
rubicuridula	prik dicambacs	None	recite	TD.E		and lookinii grassiand.	Scott.
					BLM- Sensitive;		
Astragalus oocarpus	San Diego milk-vetch	None	None	1B.2	USFS- Sensitive	Chaparral, cismontane woodland, meadows.	Openings in chaparral or on gravelly flats and slopes in thin oak woodland. 305-1500m.
					BLM- Sensitive;		
Horkelia parryi	Parry's horkelia	None	None	1B.2	USFS- Sensitive	Chaparral, cismontane woodland.	Openings in chaparral or woodland; especially known from the Ione formation in Amador County. 80-1035m.
Streptanthus breweri var. hesperidis	green jewel-flower	None	None	1B.2		Chaparral, cismontane woodland.	Openings in chaparral or woodland; serpentine, rocky sites. 130-760m.
Amorpha californica var.	,					Broadleafed upland forest, chaparral,	
napensis	Napa false indigo Klamath Mountain	None	None	1B.2		cismontane woodland.	Openings in forest or woodland or in chaparral. 150-2000m
Silene salmonacea	catchfly	None	None	1B.2		Lower montane coniferous forest. Broadleafed upland forest, lower	Openings in serpentine. 775-1045m.
Cilena mannas	Markla Mauritalia assault	Name	Nana	4D 2		montane coniferous forest, cismontane	Openings with little vegetation, shady areas, often along
Silene marmorensis	Marble Mountain campion	ivone	None	1B.2		woodland. Broadleaved upland forest, chaparral,	trails; can be on serpentine. 165-1250m.
Monardella villosa ssp. globosa	robust monardella	None	None	1B.2	BLM- Sensitive	cismontane woodland, valley and foothill grassland.	Openings. 30-300m.
Lasthenia californica ssp.	Baker's goldfields		None	1B.2		Closed-cone coniferous forest, coastal scrub.	-
bakeri		None	INUITE	ID.Z	<u> </u>	Pebble (pavement) plain, upper	Openings. 60-520m.
Dudleya abramsii ssp. affinis	San Bernardino Mountains dudleya	None	None	1B.2	USFS- Sensitive	montane coniferous forest, pinyon and juniper woodland.	Outcrops, granite or quartzite, rarely limestone. 1270- 2600m.
	,				USFS-		Primarily on sandstone and shale substrates; also known
Nolina cismontana	Peninsular nolina	None	None	1B.2	Sensitive	Chaparral, coastal scrub.	from gabbro. 140-1275m.
					BLM-		
					Sensitive; USFS-	Great Basin scrub, subalnine coniferous	Pumice sand flats, coarse barren soils of volcanic origin.
Lupinus duranii	Mono Lake lupine	None	None	1B.2		forest, upper montane coniferous forest.	

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Lewisia stebbinsii	Stebbins' lewisia	None	None	1B.2	USFS- Sensitive	Upper montane coniferous forest, lower montane coniferous forest.	Relatively barren exposed ridges and slopes in nutrient poor soils (mostly serpentine). 1680-2050m.
Allium tuolumnense	Rawhide Hill onion	None	None	1B.2	BLM- Sensitive	Cismontane woodland.	Restricted to serpentine soil, usu in grey pine chaparral. steep, rocky, S-facing slopes or small drainages. 300-600m.
Thermopsis robusta	robust false lupine	None	None	1B.2	USFS- Sensitive	North Coast coniferous forest, broadleafed upland forest.	Ridgetops; sometimes on serpentine. 360-1290m.
					BLM- Sensitive;		
Erigeron multiceps	Kern River daisy	None	None	1B.2	USFS- Sensitive	Joshua tree woodland, meadows, upper montane coniferous forest.	River banks and dry meadow borders; usually in open, grassy areas. 1780-2500m.
Malacothrix saxatilis var.					BLM- Sensitive; USFS-		
arachnoidea	Carmel Valley malacothrix		None	1B.2	Sensitive		Rock outcrops or steep rocky roadcuts. 25-1215m.
Munzothamnus blairii Scrophularia villosa	Blair's munzothamnus Santa Catalina figwort	None None	None None	1B.2 1B.2		Coastal scrub, coastal bluff scrub. Chaparral, coastal scrub.	Rocky canyon walls. 20-455m. Rocky canyons; "canyon floor." 45-510m.
Octopridiana vinoca	Carita Catamia iigwort	110110	140110	10.2		Onaparia, ocacia coras.	record carryone, carryon need. To e term.
Galvezia speciosa	showy island snapdragon	None	None	1B.2		Coastal scrub.	Rocky cliffs and canyons. 0-365m.
Eriogonum nudum var. regirivum	Kings River buckwheat	None	None	1B.2	USFS- Sensitive	Cismontane woodland.	Rocky limestone slopes along the Kings River. 210-610m.
Lewisia cotyledon var. heckneri	Heckner's lewisia	None	None	1B.2	BLM- Sensitive	Lower montane coniferous forest.	Rocky places. 225-1970m.
Campanula exigua	chaparral harebell	None	None	1B.2	BLM- Sensitive	Chaparral.	Rocky sites, usually on serpentine in chaparral. 300-1250m.
Fritillaria ojaiensis	Ojai fritillary	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Broadleaved upland forest (mesic), chaparral, lower montane coniferous forest.	Rocky sites; one reported as "moist shale talus." 300-670m.
Castilleja lanata ssp.	island white-felted						
hololeuca	paintbrush	None	None	1B.2		Chaparral, coastal scrub.	Rocky slopes. 5-400m.
Calycadenia micrantha	small-flowered calycadenia	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Chaparral, valley and foothill grassland, meadows and seeps, lower montane coniferous forest.	Rocky talus or scree; sparsely vegetated areas. occasionally on roadsides; sometimes on serpentine. 5-1500m.
Lupinus citrinus var. citrinus	orange lupine	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Chaparral, cismontane woodland, lower montane coniferous forest.	Rocky, decomposed granitic outcrops, usually open areas, on flat to rolling terrain. 600-1350m.
Eupinus Guinus var. Guinus	orange rapine	INOTIC	None	10.2	USFS-	Chaparral, cismontane woodland, coastal scrub, rip woodland, valley and	on ride to rolling terrain.
Satureja chandleri	San Miguel savory	None	None	1B.2	Sensitive	foothill grassland.	Rocky, gabbroic or metavolcanic substrate. 120-1005m.
Calystegia collina ssp. tridactylosa	coast range bindweed	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland.	Rocky, gravelly openings in serpentine. 0-600m.
Lomatium roseanum	adobe lomatium	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Lower montane coniferous forest, Great Basin scrub.	Rocky, gravelly openings. 1460-2145m.
Ageratina shastensis	Shasta ageratina	None	None	1B.2	Sensitive	Chaparral, lower montane coniferous forest.	Rocky, sometimes limestone. 400-1800m.
Erigeron blochmaniae	Blochman's leafy daisy	None	None	1B.2	BLM- Sensitive	Coastal dunes.	Sand dunes and hills. 3-185m.
Engeron blocimanae	Diocriman's leary daisy	reone	None		Censiave	Closed-cone coniferous forest, chaparral, coastal dunes, coastal scrub,	Sand, diatomaceous shales, and soils derived from other
Scrophularia atrata	black-flowered figwort	None	None	1B.2	BLM-	riparian scrub.	parent material; around swales and in sand dunes. 10-250m.
Plagiobothrys uncinatus	hooked popcorn-flower	None	None	1B.2		Chaparral, cismontane woodland, valley and foothill grassland, coastal bluff scrub.	Sandstone outcrops and canyon sides; often in burned or disturbed areas. 300-820m.
Orthotrichum kellmanii	Kellman's bristle moss	None	None	1B.2		Chaparral, cismontane oak woodland.	Sandstone outcrops with high calcium concentrations from eroded boulders out of non-calcareous sandstone bedrock. Rock outcrops in small openings within dense chaparral with overstory of scattered Pinus attenuata. 343-685m.
Chorizanthe biloba var. immemora	Hernandez spineflower	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland.	Sandy and gravelly soils on the east slope of the Diablo Range. 695-750m.
Hesperevax sparsiflora var. brevifolia	short-leaved evax	None	None	1B.2	BLM- Sensitive	Coastal bluff scrub, coastal dunes.	Sandy bluffs and flats. 0-200m.
					Jensieve	Coastal dunes, coastal prairie, coastal	Sandy flats and dunes near coast; in grassland or scrub plant
Horkelia marinensis	Point Reyes horkelia	None	None	1B.2		scrub.	communities. 5-30m.
Allium hickmanii	Hickman's onion	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Closed-cone coniferous forest, chaparral, coastal scrub, valley and foothill grassland, coastal prairie.	Sandy loam, damp ground and vernal swales; mostly in grassland though can be assoc. with chaparral or woodland. 20-200m
					BLM-	Chaparral (maritime), coastal dunes,	
Erysimum ammophilum	sand-loving wallflower	None	None	1B.2		coastal scrub.	Sandy openings. 0-130m.

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Calyptridium pygmaeum	pygmy pussypaws	None	None	1B.2		Upper montane coniferous forest, subalpine coniferous forest.	Sandy or gravelly sites. 1980-3110m.
Agrostis blasdalei	Blasdale's bent grass	None	None	1B.2	BLM- Sensitive	Coastal dunes, coastal bluff scrub, coastal prairie. Includes Agrostis blasdalei var. marinensis, State-listed Rare.	Sandy or gravelly soil close to rocks; often in nutrient-poor soil with sparse vegetation. 5-150m.
Chamaesyce ocellata ssp. rattanii	Stony Creek spurge	None	None	1B.2	BLM- Sensitive	Valley and foothill grassland.	Sandy or rocky soils. 85-800m.
Grindelia hirsutula var. maritima	San Francisco gumplant	None	None	1B.2		Coastal scrub, coastal bluff scrub, valley and foothill grassland.	Sandy or serpentine slopes, sea bluffs. 15-400m.
Chorizanthe cuspidata var. villosa	woolly-headed spineflower		None	1B.2		Coastal scrub, coastal dunes, coastal prairie.	Sandy places near the beach. 3-60m.
Chamaesyce platysperma	flat-seeded spurge	None	None	1B.2	BLM- Sensitive	Sonoran desert scrub, desert dunes.	Sandy places or shifting dunes. Possibly a waif in California; more common in Arizona and Mexico. 60-950m.
Linanthus maculatus	Little San Bernardino Mtns. linanthus	None	None	1B.2	BLM- Sensitive	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.
	Santa Cruz Mountains			1B.2	CONTONUTO	Chaparral, lower montane coniferous	Sandy shale slopes; sometimes in the transition between
Penstemon rattanii var. kleei Agrostis hooveri	Hoover's bent grass	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	forest. Chaparral, cismontane woodland, valley and foothill grassland.	forest and chaparral. 400-1100m. Sandy sites. 60-600m.
Lomatium insulare	San Nicolas Island Iomatium	None	None	1B.2		Coastal bluff scrub.	Sandy slopes, "lower sea terraces." 15-800m.
Opuntia basilaris var. brachyclada	short-joint beavertail	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon-juniper woodland, riparian woodland.	Sandy soil or coarse, granitic loam. 425-1800m.
Horkelia tenuiloba	thin-lobed horkelia	None	None	1B.2	BLM- Sensitive	Coastal scrub, chaparral.	Sandy soils; mesic openings. 45-500m.
Isocoma menziesii var. decumbens	decumbent goldenbush	None	None	1B.2		Coastal scrub.	Sandy soils; often in disturbed sites. 10-910m.
Eriogonum microthecum var.	Schoolcraft's wild buckwheat	None	None	1B.2	BLM- Sensitive	Pinyon and juniper woodland, Great Basin scrub.	Sandy to rocky substrates. 1300-1750m.
Lepidium flavum var. felipense	Borrego Valley pepper- grass	None	None	1B.2	BLM- Sensitive	Sonoran desert scrub, pinyon-juniper woodland.	Sandy, clay, or silty soils. 450-840m.
Eriogonum luteolum var. saltuarium	Jack's wild buckwheat	None	None	1B.2		Upper montane coniferous forest, Great Basin scrub.	Sandy, granitic substrates. 1700-2400m.
Layia septentrionalis	Colusa layia	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland, valley and foothill grassland.	Scattered colonies in fields and grassy slopes in sandy or serpentine soil. 145-1095m.
Calochortus palmeri var. munzii	San Jacinto mariposa-lily	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest, chaparral, meadows.	Seen in open Jeffrey pine forest as well as in chaparral. 900- 1640m.
Iliamna latibracteata	California globe mallow Greene's narrow-leaved	None	None	1B.2	USFS- Sensitive	North Coast coniferous forest.	Seepage areas in silty clay loam. 500-2000m. Serpentine and volcanic substrates, generally in shrubby
Erigeron greenei	daisy	None	None	1B.2		Chaparral.	vegetation. 75-1060m.
Hesperolinon bicarpellatum	two-carpellate western flax	None	None	1B.2		Serpentine chaparral.	Serpentine barrens at edge of chaparral. 150-820m.
Lupinus constancei	The Lassics lupine	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest.	Serpentine barrens. 1500-2000m.
Harmonia hallii	Hall's harmonia	None	None	1B.2	BLM- Sensitive	Chaparral.	Serpentine hills and ridges. Open, rocky areas within chaparral. 500-900m.
Silene serpentinicola	serpentine catchfly	None	None	1B.2	USFS- Sensitive	Chaparral, lower montane coniferous forest.	Serpentine openings, gravelly or rocky soils. 145-1650m.
Streptanthus albidus ssp. peramoenus	most beautiful jewel- flower	None	None	1B.2	USFS- Sensitive	Chaparral, valley and foothill grassland, cismontane woodland.	Serpentine outcrops, on ridges and slopes. 120-730m.
Streptanthus brachiatus ssp. hoffmanii	Freed's jewel-flower	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland.	Serpentine rock outcrops, primarily in geothermal development areas. 480-1030m.
Cirsium hydrophilum var. vaseyi	Mt. Tamalpais thistle	None	None	1B.2		Broadleafed upland forest, chaparral.	Serpentine seeps and streams in chaparral and woodland. 265-620m.
Streptanthus insignis ssp.	Arburua Ranch jewel- flower	None	None	1B.2		Coastal scrub.	Serpentine slopes, also on non-serpentine. 230-850m.
Streptanthus glandulosus ssp.	Mount Tamalpais bristly					Chaparral, valley and foothill grassland.	
pulchellus	jewel-flower	None	None	1B.2	BLM- Sensitive; USFS-		Serpentine slopes. 150-800m.
Fritillaria viridea	San Benito fritillary	None	None	1B.2	Sensitive	Chaparral.	Serpentine slopes. 200-1525m.
Lomatium congdonii	Congdon's lomatium	None	None	1B.2	BLM- Sensitive	Cismontane woodland, chaparral.	Serpentine soils with serpentine chaparral plants and grey pines. 300-610m.
Hesperolinon drymarioides	drymaria-like western flax	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Closed-cone coniferous forest, chaparral, cismontane woodland, valley and foothill grassland.	Serpentine soils, mostly within chaparral. 390-1000m.

Scientific Name	Common name	Federal listing status	Calif listing status	CNPS List	Other Status	General Habitat	Micro-Habitat
Hesperolinon adenophyllum	glandular western flax	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland, valley and foothill grassland.	Serpentine soils; generally found in sepentine chaparral. 425 1315m.
Eriogonum luteolum var. caninum	Tiburon buckwheat	None	None	1B.2		Chaparral, valley and foothill grassland, cismontane woodland, coastal prairie.	Serpentine soils; sandy to gravaelly sites. 0-700m.
					BLM- Sensitive;		
Chlorogalum pomeridianum var. minus	dwarf soaproot	None	None	1B.2	USFS- Sensitive	Chaparral, valley and foothill grassland.	Serpentine. 240-970m.
Lessingia micradenia var. glabrata	smooth lessingia	None	None	1B.2		Chaparral.	Serpentine; often on roadsides. 120-485m.
3.00.00					BLM- Sensitive;		
Clarkia biloba ssp. australis	Mariposa clarkia	None	None	1B.2	USFS- Sensitive	Chaparral, cismontane woodland.	Several EO's occur in the foothill woodland/riparian ecotone. 300-945m.
Calochortus clavatus var. gracilis	slender mariposa-lily	None	None	1B.2	USFS- Sensitive	Chaparral, coastal scrub.	Shaded foothill canyons; often on grassy slopes within other habitat. 420-760m
Acanthoscyphus parishii var. abramsii	Abrams' oxytheca	None	None	1B.2	USFS- Sensitive	Chaparral.	Shale to sandy places. 1150-2060m.
Poa diaboli	Diablo Canyon blue grass	None	None	1B.2	BLM- Sensitive	Chaparral (mesic sites), cismontane woodland, coastal scrub, closed-cone coniferous forest.	Shale, sometimes burned areas. 120-400m.
Astragalus lentiformis	lens-pod milk-vetch	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Great Basin scrub, lower montane coniferous forest.	Shallow, volcanic soils among sagebrush, sometimes with Jeffrey pine. 1450-1925m.
Phlox dolichantha	Big Bear Valley phlox	None	None	1B.2	USFS- Sensitive	Pebble plains, upper montane coniferous forest.	Sloping hillsides, in shade under pines and Q. kelloggii, with heavy pine litter; also in openings. 2000-2970m
	Butte County				BLM-		
Sidalcea robusta Malacothamnus hallii	checkerbloom Hall's bush-mallow	None None	None None	1B.2 1B.2	Sensitive	Chaparral, cismontane woodland. Chaparral.	Small draws and rocky crevices. 85-335m. Some populations on serpentine. 10-550m.
Monardella nana ssp. leptosiphon	San Felipe monardella	None	None	1B.2	USFS- Sensitive	Chaparral, lower montane coniferous forest.	Sometimes in openings and fuelbreaks or in the understory of forest or chaparral. 1200-1855m.
Balsamorhiza macrolepis var. macrolepis	big-scale balsamroot	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Valley and foothill grassland, cismontane woodland.	Sometimes on serpentine. 35-1000m.
Cirsium andrewsii	Franciscan thistle	None	None	1B.2		Coastal bluff scrub, broadleaved upland forest, coastal scrub.	Sometimes serpentine seeps. 0-135m.
Monardella frutescens	San Luis Obispo monardella	None	None	1B.2	BLM- Sensitive	Coastal dunes, coastal scrub.	Stabilized sand of the immediate coast. 10-100m.
Xylorhiza cognata	Mecca-aster	None	None	1B.2	BLM- Sensitive	Sonoran desert scrub.	Steep canyon slopes, in sandstone and clay. 20-305m.
Packera eurycephala var. lewisrosei	Lewis Rose's ragwort	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Cismontane woodland, lower montane coniferous forest, chaparral.	Steep slopes and in canyons in serpentine soil, often along or near roads. 420-1515m.
Eriogonum umbellatum var. torreyanum	Donner Pass buckwheat	None	None	1B.2	USFS- Sensitive	Upper montane coniferous forest, chaparral, meadows.	Steep slopes and ridgetops; rocky, volcanic soils; usually in bare or sparsely vegetated areas. 1840-2620m.
Erythronium taylorii	Pilot Ridge fawn lily	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest.	Steep, metamorphic rock outcrops in Douglas-fir/mixed conifer/black oak forest. 1340-1400m.
Astragalus douglasii var. perstrictus	Jacumba milk-vetch	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Chaparral, cismontane woodland, valley and foothill grassland.	Stony hillsides and gravelly or sandy flats in open oak woodland. 900-1370m.
Astragalus lentiginosus var. sierrae	Big Bear Valley milk-vetch		None	1B.2	USFS- Sensitive	Mojavean desert scrub, meadows, pinyon-juniper woodland, upper montane coniferous forest.	Stony meadows and open pinewoods; sandy and gravelly soils in a variety of habitats. 1800-2600m.
Wyethia reticulata	El Dorado County mule ears	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland, lower montane coniferous forest.	Stony red clay and gabbroic soils; often in openings in gabbro chaparral. 180-630m.
Penstemon californicus	California beardtongue	None	None	1B.2	USFS- Sensitive	Chaparral, lower montane coniferous forest, pinyon-juniper woodland.	Stony slopes and shrubby openings; sandy or granitic soils. 1160-2300m.
					BLM- Sensitive; USFS-		
Tetracoccus dioicus	Parry's tetracoccus	None	None	1B.2	Sensitive	Chaparral, coastal scrub.	Stony, decomposed gabbro soil. 150-1000m.
Malacothamnus palmeri var. involucratus	Carmel Valley bush- mallow	None	None	1B.2	BLM- Sensitive; USFS- Sensitive	Cismontane woodland, chaparral.	Talus hilltops and slopes, sometimes on serpentine. Burn dependent. 30-1100m.

		Federal listing			Other		
Scientific Name	Common name	status	status	CNPS List	Status	General Habitat	Micro-Habitat
					BLM- Sensitive;		
Harmonia stebbinsii	Stebbins' harmonia	None	None	1B.2	USFS- Sensitive	Chaparral, lower montane coniferous forest.	Ultramafic soils, often along roads. 400-1580m.
						Broadleaved upland forest, chaparral, cismontane wdlnd, coastal scrub,	3
Hallandhalla anatana	Dishla hallanda II.	None	Mana	40.0	BLM-	riparian woodland, valley & foothill	Usually in chaparral/oak woodland interface in rocky, azonal
Helianthella castanea Erigeron supplex	Diablo helianthella supple daisy	None None	None None	1B.2 1B.2	Sensitive	grassland. Coastal bluff scrub, coastal prairie.	soils. Often in partial shade. 25-1150m. Usually in grassy sites. 5-50m.
					BLM-		
					Sensitive; USFS-	Great Basin scrub, pinyon and juniper woodland, lower montane coniferous	Usually in loamy soils derived from volcanics. Grassy areas
Ivesia aperta var. aperta	Sierra Valley ivesia	None	None	1B.2	Sensitive	forest, meadows.	w/in sagebrush scrub or other communities. 1475-2300m.
					BLM-		
					Sensitive; USFS-		Usually in transition zone on sand, clay, or serpentine; in
Carex obispoensis	San Luis Obispo sedge	None	None	1B.2	Sensitive	valley and foothill grassland.	seeps. 5-790m.
Fritillaria pluriflora	adobe-lily	None	None	1B.2	BLM- Sensitive	Chaparral, cismontane woodland, foothill grassland.	Usually on clay soils; sometimes serpentine. 55-820m.
r Hundrid prarmord	adobe my	110110	110110			roomin gracolaria.	ordany on only come, comounted corporation. Co occurs.
					BLM- Sensitive;		
Penstemon personatus	closed-throated beardtongue	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest, chaparral.	Usually on N-facing slopes in metavolcanic soils. 1330- 2120m.
					USFS-	Alkaline meadows, pebble plain, pinyon- juniper woodland, upper montane	Usually on pebble plains with other rare species. 1700-
Linanthus killipii Lessingia micradenia var.	Baldwin Lake linanthus	None	None	1B.2	Sensitive	coniferous forest.	2400m.
micradenia	Tamalpais lessingia	None	None	1B.2		Chaparral, valley and foothill grassland.	Usually on serpentine, in serpentine grassland or serpentine chaparral. often on roadsides. 100-305m.
					BLM-		
					Sensitive; USFS-	Great Basin scrub, lower montane coniferous forest, meadows, vernal	Vernally mesic areas; usually volcanic substrates. 1450-
Ivesia sericoleuca	Plumas ivesia	None	None	1B.2	Sensitive	pools.	2000m.
					BLM-		
Astragalus pulsiferae var.					USFS-	Great Basin scrub, lower montane coniferous forest, pinyon and juniper	
suksdorfii	Suksdorf's milk-vetch	None	None	1B.2	Sensitive	woodland.	Volcanic or clay soil; often gravelly or rocky. 1300-1930m.
					BLM- Sensitive;		
Chrontonthus alignathus	Masonic Mountain jewel-	Nama	Nana	1B.2	USFS-	Discuss in since was allowed	Volcanic or decomposed granite soils, along roadsides and in
Streptanthus oliganthus	flower	None	None	16.2	Sensitive	Pinyon-juniper woodland.	old mine dumps. 1965-3050m.
Allium tribracteatum	three-bracted onion	None	None	1B.2	USFS- Sensitive	Chaparral, lower montane coniferous forest, upper montane coniferous forest.	Volcanic slopes and ridges. 1100-2750m.
					BLM-		
Astragalus pulsiferae var.						Great Basin scrub, lower montane coniferous forest, pinyon-juniper	Volcanic substrate, sometimes in clay; sandy or rocky soil,
pulsiferae	Pulsifer's milk-vetch	None	None	1B.2	Sensitive	woodland.	often with pines or sagebrush. 1340-1880m.
Eschscholzia minutiflora ssp.					BLM-		Volcanic tuff; with Larrea, Lycium, Eriogonum, Isomeris,
twisselmannii	Red Rock poppy	None	None	1B.2	Sensitive	Mojavean desert scrub.	Hemizonia. 680-1230m.
Navarretia peninsularis	Baja navarretia	None	None	1B.2	USFS- Sensitive	Lower montane coniferous forest, chaparral.	Wet areas in open forest. 1500-2425m.
					BLM-		
	dender den de				Sensitive;	Cismontane woodland, lower montane	Within the transition zone of the Sierra Nevada, moist
Mimulus filicaulis	slender-stemmed monkeyflower	None	None	1B.2	USFS- Sensitive	coniferous forest, meadows and seeps, upper montane coniferous forest.	granitic sand and meadow edges; vernally mesic sites. 680- 1750m.
		1			BLM-		
		1			Sensitive; USFS-	Great Basin scrub, lower montane coniferous forest, pinyon-juniper	
Penstemon sudans	Susanville beardtongue	None	None	1B.3	Sensitive	woodland.	1200-1775m.
Allium housellii var alaksid	Mt Bings onice	None	Nana	1D 2	USFS-	Great Basin scrub, pinyon-juniper	1300 1950m
Allium howellii var. clokeyi Erythronium howellii	Mt. Pinos onion Howell's fawn lily	None None	None None	1B.3 1B.3	Sensitive	woodland. Lower montane coniferous forest.	1300-1850m. 200-1145m.
Cordylanthus eremicus ssp.					USFS-	Upper montane coniferous forest,	
kernensis	Kern Plateau bird's-beak	None	None	1B.3	Sensitive	pinyon-juniper woodland.	2100-3000m.
Botrychium lineare	slender moonwort	None	None	1B.3	USFS- Sensitive	Upper coniferous forest.	2600m.
Donyonum medie	Sichael mooffwort	140116	140116	10.0		opper connectous tofest.	2000111.
Senecio pattersonensis	Mount Patterson senecio	None	None	1B.3	USFS- Sensitive	Alpine boulder and rock field.	2900-3700m.
Eriogonum hoffmannii var. robustius	robust Hoffmann's buckwheat	None	None	1B.3		Mojavean desert scrub, pinyon and juniper woodland.	300-750m.
					BLM-		
		1			Sensitive;	Chanarral ciemontana woodland lawa	
Clarkia borealis ssp. borealis	northern clarkia	None	None	1B.3	USFS- Sensitive	Chaparral, cismontane woodland, lower montane coniferous forest.	400-800m.

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Camissonia integrifolia	Kern River evening- primrose	None	None	1B.3	BLM- Sensitive	Chaparral.	700-1000m.
Mentzelia tridentata	creamy blazing star	None	None	1B.3	BLM- Sensitive	Mojavean desert scrub.	700-1160m.
Palafoxia arida var. gigantea	giant spanish-needle	None	None	1B.3	BLM- Sensitive	Desert dunes.	Active and stable dune areas; assoc. with Ammobroma sonorae, Astragalus lent. borreganus, etc. 15-100m.
Lessingia glandulifera var. tomentosa	Warner Springs lessingia	None	None	1B.3	USFS- Sensitive	Chaparral.	Along roadsides, sandy soil, in high desert chaparral. 860- 1220m.
Ribes canthariforme	Moreno currant	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Chaparral.	Among boulders in oak-manzanita thickets; shaded or partially shaded sites. 340-1200m.
Salvia greatae	Orocopia sage	None	None	1B.3	BLM- Sensitive	Mojavean desert scrub, Sonoran desert scrub.	Broad alluvial bajadas and fans adjacent to desert washes in gravelly or rocky soil, rocky slopes of canyons40-825m.
Chorizanthe blakleyi	Blakley's spineflower	None	None	1B.3	USFS- Sensitive	Chaparral.	Closely related to C. palmeri. 600-1600m.
Hulsea californica	San Diego hulsea	None	None	1B.3		Lower montane coniferous forest, upper montane coniferous forest, chaparral. Sonoran desert scrub, pinyon-juniper	Coarse to fine sandy loam in disturbed chaparral openings at high elevations. 1000-2915m. Creosote bush scrub to pinyon-juniper woodland; rocky sites.
Lotus haydonii	pygmy lotus	None	None	1B.3		woodland.	600-1200m.
Ivesia longibracteata Penstemon newberryi var.	Castle Crags ivesia	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Lower montane coniferous forest.	Crevices in granitic cliffs. About 1365m.
sonomensis	Sonoma beardtongue	None	None	1B.3		Chaparral.	Crevices in rock outcrops and talus slopes. 180-1390m.
Carlquistia muirii	Muir's tarplant	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Chaparral, lower montane coniferous forest, upper montane coniferous forest.	Crevices of granite ledges and dry sandy soils. 1100-2500m.
Lupinus peirsonii	Peirson's lupine	None	None	1B.3	USFS- Sensitive	Joshua tree woodland, pinyon-juniper woodland, upper montane coniferous forest.	Decomposed granite slide and talus, on slopes and ridges. 1000-2000m.
Calochortus simulans	San Luis Obispo mariposa- lily	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Valley and foothill grassland, cismontane woodland, chaparral.	Decomposed granite. 395-1100m.
Leptosiphon floribundus ssp.	Santa Rosa Mountains				USFS-	dismontante woodiand, onaparrai.	Becomposed granice. 666 Proofit.
hallii Eriogonum kennedyi var.	leptosiphon southern alpine	None	None	1B.3	Sensitive USFS-	Sonoran desert scrub. Alpine boulder and rock fields, subalpine	Desert canyons. 900-1275m.
alpigenum	buckwheat	None	None	1B.3	Sensitive BLM-	coniferous forest. Mojavean desert scrub, pinyon-juniper	Dry granitic gravel. 2600-3500m. Dry granitic or limestone rocky slopes and crevices. 1160-
Penstemon stephensii	Stephens' beardtongue	None	None	1B.3	Sensitive	woodland.	2120m.
Acanthoscyphus parishii var. cienegensis	Cienega Seca oxytheca	None	None	1B.3	USFS- Sensitive	Upper montane coniferous forest.	Dry gravelly banks and granitic sand. 2090-2450m.
Viola pinetorum ssp. grisea	grey-leaved violet	None	None	1B.3	USFS- Sensitive	Subalpine coniferous forest, upper montane coniferous forest.	Dry mountain peaks and slopes. 1800-2600m.
Minuartia howellii Eriogonum gilmanii	Howell's sandwort Gilman's buckwheat	None None	None None	1B.3 1B.3	BLM- Sensitive	Lower montane coniferous forest, chaparral. Mojavean desert scrub.	Dry open places, often on serpentine hillsides and ridges, near Jeffrey pines. 550-1000m. Dry rocky places in desert mountains. 1800-2000m.
Penstemon tracyi	Tracy's beardtongue	None	None	1B.3		Upper montane coniferous forest.	Dry rocky ridges, ledges, and cliffs, often in crevices. 1785- 2145m.
Eriogonum hirtellum	Klamath Mountain buckwheat	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest.	Dry serpentine rocky outcrops and ridges. 600-1900m.
Monardella macrantha ssp. hallii	Hall's monardella	None	None	1B.3	USFS- Sensitive	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.
Astragalus lentiginosus var. antonius	San Antonio milk-vetch	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest.	Dry slopes in open yellow pine forest. 1500-2600m.
Erigeron inornatus var. keilii	keil's daisy	None	None	1B.3		Meadows, lower montane coniferous forest.	Dry slopes, meadows, in coniferous forest. 695-1820m.
Penstemon filiformis	thread-leaved beardtongue	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Cismontane woodland, lower montane coniferous forest, meadows and seeps.	Dry stony sites, grassy openings, & meadows, often along trails & logging roads; sometimes on serpentine. 450-2125m.
Petalonyx thurberi ssp.	Death Valley sandpaper- plant	None	None	1B.3	BLM- Sensitive	Desert dunes, Mojavean desert scrub.	Dry washes and slopes. 255-1445m.
Lupinus excubitus var. medius	Mountain Springs bush	None	None	1B.3	BLM-	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.

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Potentilla glandulosa ssp. ewanii	Ewan's cinquefoil	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest.	Edges of seeps and springs, small waterways. 1900-2400m.
Ericameria cuneata var. macrocephala	Laguna Mountains goldenbush	None	None	1B.3		Chaparral.	Endemic to the Laguna Mountains. Among boulders; in crevices in granitic outcrops and in rocky soil. 1185-1850m.
Draba incrassata	Sweetwater Mountains draba	None	None	1B.3	USFS- Sensitive	Alpine boulder and rock field.	Endemic to the rhyolite substrates of the Sweetwater Mtns, on loose, steep talus slopes. 2500-3500m.
Galium clementis	Santa Lucia bedstraw	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest.	Forming soft mats in shady rocky patches; on granite or serpentine; mostly on exposed peaks. 1130-1780m.
Streptanthus fenestratus	Tehipite Valley jewel- flower	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forst.	Granite gravels and dry open sandy areas. 605-1760m.
Iris munzii	Munz's iris	None	None	1B.3	BLM- Sensitive	Cismontane woodland.	Granitic moist sandy loam soil, often along streams. 335-800m.
Monardella beneolens	sweet-smelling monardella	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Alpine boulder and rock field, subalpine coniferous forest, upper montane coniferous forest.	Granitic soils; open conifer forest with Eriogonum spp.,Trifolium, Erigeron, etc. 2500-3500m.
Sidalcea hickmanii ssp. hickmanii	Hickman's checkerbloom	None	None	1B.3	USFS- Sensitive	Chaparral.	Grassy openings in chaparral, and on dry ridges. 330-1640m.
Streptanthus gracilis	alpine jewel-flower	None	None	1B.3	USFS- Sensitive	Subalpine coniferous forest, upper montane coniferous forest.	Gravel pockets among granitic outcrops and talus boulders. 2800-3500m.
Trifolium dedeckerae	Dedecker's clover	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Pinyon-juniper woodland, subalpine coniferous forest, upper montane coniferous forest, lower montane conif forest.	Gravelly canyons and slopes, cracks in granite rock outcrops, and understory of pinyon pines. 2100-3500m.
Astragalus ravenii	Raven's milk-vetch	None	None	1B.3	USFS- Sensitive	Alpine boulder and rock field, upper montane coniferous forest.	Gravelly flats and slopes on metamorphosed sedimentary and volcanic bedrock. 3355-3460.
Cryptantha incana	Tulare cryptantha	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest.	Gravelly or rocky sites. 1430-2000m.
Hulsea vestita ssp. pygmaea	pygmy hulsea	None	None	1B.3	USFS- Sensitive	Alpine boulder and rock field, subalpine coniferous forest.	Gravelly sites; on granite. 2835-3900m.
Polemonium chartaceum	Mason's sky pilot	None	None	1B.3	USFS- Sensitive	Alpine boulder and rock field, subalpine coniferous forest.	Gravelly slopes and rocky ledges on granite or volcanic soils. 1800-4215m.
Astragalus anxius	Ash Valley milk-vetch	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Great Basin scrub, pinyon and juniper woodland, upper montane coniferous forest.	Gravelly, shallow, volcanic soils. 1550-1645m.
Galium angustifolium ssp. onycense	Onyx Peak bedstraw	None	None	1B.3		Cismontane woodland.	Grows from under and between large granite rocks and outcrops with scattered grey pines and oaks. 950-2300m.
Horkelia truncata	Ramona horkelia	None	None	1B.3	USFS- Sensitive	Chaparral, cismontane woodland.	Habitats in California include: mixed chaparral, vernal streams, and disturbed areas near roads. Clay soil. 400-1300m.
Oreonana vestita	woolly mountain-parsley	None	None	1B.3	USFS- Sensitive	Subalpine coniferous forest, upper montane coniferous forest.	High ridges; on scree, talus, or gravel. 2410-3500m.
Tauschia howellii	Howell's tauschia	None	None	1B.3	USFS- Sensitive	Subalpine coniferous forest, upper montane coniferous forest.	Hot dry ridge summits and slopes in decomposed granite gravel and red sand. 1705-2500m.
Draba sierrae	Sierra draba	None	None	1B.3		Alpine boulder and rock field.	In coarse sandy and gravelly soil; granitic or carbonate substrate. 3500-4265m.
Phacelia mustelina	Death Valley round- leaved phacelia	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Pinyon-juniper woodland; Mojavean desert scrub.	In crevices on the face of limestone cliffs, on volcanic outcrops, and in gravel talus. 725-2620m.
Dudleya saxosa ssp. saxosa	Panamint dudleya	None	None	1B.3	BLM- Sensitive	Mojavean desert scrub, pinyon and juniper woodland.	In exposed crevices of cliffs and rocks, on decomposed granite or on limestone. 1100-2200m.
Galium californicum ssp. luciense	Cone Peak bedstraw	None	None	1B.3	USFS- Sensitive	Broadleaved upland forest, lower montane coniferous forest, cismontane woodland.	In forest duff or gravelly talus of pine and oak forest, in partial shade. 875-1525m.
Campanula shetleri	Castle Craqs harebell	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Lower montane coniferous forest.	In protected rock crevices in granite. 1210-1830m.
Arabis bodiensis	Bodie Hills rock-cress	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Alpine boulder and rock field, Great Basin scrub, pinyon-juniper woodland, subalpine coniferous forest.	In rock crevices, outcrops, and on steep slopes. Granite and volcanic substrates. 2195-3530m.
Ribes tularense	Sequoia gooseberry	None	None	1B.3	BLM- Sensitive	Lower montane coniferous forest, upper montane coniferous forest.	
Allium shevockii	Spanish Needle onion	None	None	1B.3	BLM-	Pinyon-juniper woodland, upper montane coniferous forest.	In soil pockets on rock outcrops and talus slopes; bulbs mostly on margins of outcrops. 2000-2300m.

		Fodoral liating	Calif liating		Other		
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Petrophyton caespitosum ssp. acuminatum	marble rockmat	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest.	Limestone or granite. rocky sites. 1200-2300m.
Dacryophyllum falcifolium	tear drop moss	None	None	1B.3	Sensitive	Coast redwood forest.	Limestone or grante: 100xy sites. 1200-2300m. Limestone substrates and rock outcrops. 50-275m.
Heterotheca monarchensis	Monarch golden-aster	None	None	1B.3	USFS- Sensitive	Cismontane woodland.	Limestone. 1095-1850m.
Fritillaria brandegeei	Greenhorn fritillary	None	None	1B.3	Sensitive	Lower montane coniferous forest.	Loamy, granitic soils; often in mixed conifer-black oak community. 1200-1910m.
Fillilana biandegeei	Greenhorn mulary	None	INOTIE	16.3	USFS-	Lower montane connerous lorest.	
Potentilla morefieldii	Morefield's cinquefoil	None	None	1B.3	Sensitive	Alpine boulder and rock field.	Low areas in alpine calcareous (or granite?) rocks. 3300- 4100m.
Mimulus norrisii	Kaweah monkeyflower	None	None	1B.3	BLM- Sensitive	Chaparral, cismontane woodland.	Marble outcrops, soil pockets, moss-covered ledges, cracks in outcrops, sometimes on S-facing cliffs. 360-1300m.
Erysimum insulare ssp. insulare	island wallflower	None	None	1B.3	OCHSIEVE	Coastal bluff scrub, coastal dunes.	Mesas and cliffs. 0-180m.
Symphyotrichum greatae	Greata's aster	None	None	1B.3		Chaparral, cismontane woodland.	Mesic canyons. 800-1500m.
Lewisia longipetala	long-petaled lewisia	None	None	1B.3	USFS- Sensitive	Alpine boulder and rock field, subalpine coniferous forest.	Mesic rocky sites; in cracks of granite or gravelly volcanic soils. 2480-2925m.
Ecwisia iorigipetala	long petaled lewisia	THORE	None	15.0	BLM-	comicrous forest.	5010. 2400 202011.
					Sensitive; USFS-		
Delphinium umbraculorum Githopsis tenella	umbrella larkspur delicate bluecup	None None	None None	1B.3 1B.3	Sensitive	Cismontane woodland. Chaparral, cismontane woodland.	Mesic sites. 400-1600m. Mesic sites. 1100-1900m.
Lupinus lepidus var.	donoato biaccap	110110	110110	15.0	USFS-	Meadows, upper montane coniferous	Mesic, rocky sites. One site states: "level, dry site,
culbertsonii	Hockett Meadows lupine	None	None	1B.3	Sensitive	forest.	surrounded by Jeffrey pines." 2425-3000m.
Horkelia tularensis	Kern Plateau horkelia	None	None	1B.3	USFS- Sensitive	Upper montane coniferous forest.	Metamorphic gravel along an exposed ridge top. 2280- 2875m.
Streptanthus glandulosus var.	Hoffman's bristly jewel-				BLM-	Chaparral, cismontane woodland, valley	Moist, steep rocky banks, in serpentine and non-serpentine
hoffmanii	flower	None	None	1B.3	Sensitive	and foothill grassland. Lower montane coniferous forest,	soil. 120-475m.
						pinyon-juniper woodland, subalpine coniferous forest, upper montane	Moss growing on granitic rock; known only from near Sonora
Orthotrichum spjutii	Spjut's bristle moss	None	None	1B.3		coniferous forest.	Pass. 2100-2400m.
Orthotrichum shevockii	Shevock's bristle moss	None	None	1B.3	BLM- Sensitive	Joshua tree woodland, pinyon-juniper woodland.	Moss growing on granitic rocks. 750-2100m.
Entosthodon kochii	Koch's cord moss	None	None	1B.3		Cismontane woodland.	Moss growing on soil. 500-1000m.
Mielichhoferia tehamensis	Lassen Peak copper moss	None	None	1B.3		Alpine boulder and rock field.	Moss on volcanic rock and soil; mesic sites. 2500-2800m.
Horkelia hispidula	White Mountains horkelia	None	None	1B.3	USFS- Sensitive	Great Basin scrub, subalpine coniferous forest, alpine dwarf scrub.	Mostly in ancient bristlecone forest. 3000-3400m.
					BLM-	Cismontane woodland, valley and	
Clarkia rostrata	beaked clarkia	None	None	1B.3	Sensitive	foothill grassland.	North-facing slopes; sometimes on sandstone. 60-460m.
Heuchera hirsutissima	shaggy-haired alumroot	None	None	1B.3	USFS- Sensitive	Subalpine coniferous forest, upper montane coniferous forest.	Often near large rocks. 1500-3500m.
					BLM-		
	straight-awned				Sensitive; USFS-	Chaparral, cismontane woodland,	
Chorizanthe rectispina	spineflower	None	None	1B.3	Sensitive	coastal scrub.	Often on granite in chaparral. 355-1035m.
					BLM- Sensitive;		
Clarkia mildrediae ssp. mildrediae	Mildred's clarkia	None	None	1B.3	USFS- Sensitive	Cismontane woodland, lower montane coniferous forest.	On decomposed granite; sometimes on roadsides. 245- 1710m.
					BLM-	Broadleafed upland forest, lower	
					Sensitive; USFS-	montane coniferous forest, pinyon & juniper woodland, upper montane	On dry rock outcrops in granite walls and canyons. 1500-
Erigeron aequifolius	Hall's daisy	None	None	1B.3	Sensitive	coniferous forest.	2440m.
Managed allows						Lower montane coniferous forest, upper	
Monardella linoides ssp. oblonga	Tehachapi monardella	None	None	1B.3	USFS- Sensitive	montane coniferous forest, pinyon- juniper woodland.	On dry slopes of yellow pine forest, decomposed granitic soils; also in roadside disturbed areas. 1695-2470m.
Cryptantha crymophila	subalpine cryptantha	None	None	1B.3	DIM	Subalpine coniferous forest.	On dry talus of volcanic formation. 2600-3200m.
Calycadenia hooveri	Hoover's calycadenia	None	None	1B.3	BLM- Sensitive	Cismontane woodland, valley and foothill grassland.	On exposed, rocky, barren soil. 65-260m.
Erythronium pusaterii	Kaweah fawn lily	None	None	1B.3	USFS- Sensitive	Subalpine coniferous forest, meadows.	On granitic loam soils and granite outcrops; also on metamorphics. 2200-2775m.
Cardamine nuttallii var. gemmata	yellow-tubered toothwort	None	None	1B.3	OCHORNE	Lower montane coniferous forest, North Coast coniferous forest.	On serpentine in a variety of aspects. 100-700m.
gemmata Draba aureola	golden alpine draba	None	None	1B.3		Alpine boulder and rock field, subalpine coniferous forest.	On serpentine in a variety of aspects. 100-700m. On serpentine or volcanic outcrops. 2000-3355m.
Diada auleola	Sorgett gibing digna	110116	140116	10.0	BLM-	connectous totest.	on serpentine or voicemic outdrups. 2000-3300m.
Cryptantha mariposae	Mariposa cryptantha	None	None	1B.3	Sensitive	Chaparral.	On serpentine outcrops. 200-650m.
					BLM-		
Galium hardhamiae	Hardham's bedstraw	None	None	1B.3	Sensitive; USFS- Sensitive	Closed-cone coniferous forest.	On serpentine with Cupressus sargentii. 390-975m.
Ganum narunalillae	riai uriairi a peusilaw	140116	INUIC	יט.ט	SCHOULT	Giosca-corie corillerous lotest.	On scriptimine with Cupressus Sargerith. 390-97311.

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Delphinium purpusii	rose-flowered larkspur	None	None	1B.3	BLM- Sensitive	Chaparral, cismontane woodland, pinyon-juniper woodland.	On shady rocky slopes, often on carbonates. 300-1300m.
Epilobium siskiyouense	Siskiyou fireweed	None	None	1B.3	BLM- Sensitive	Subalpine coniferous forest, upper montane coniferous forest.	On slopes in gravelly, serpentine soils. 1700-2500m. On steep rocky slopes with clayey soils, or sometimes on
Draba cruciata	Mineral King draba	None	None	1B.3		Subalpine coniferous forest.	light sandy soils. 2500-3315m.
Draba carnosula	Mt. Eddy draba	None	None	1B.3	USFS- Sensitive	Subalpine coniferous forest, upper montane coniferous forest.	On talus or small boulder-fields; known from both serpentine and granite. 1920-2730m.
Arabis tiehmii	Tiehm's rock-cress	None	None	1B.3	USFS- Sensitive	Alpine boulder and rock field.	On windswept rocky ridges and in crevices on rocky slopes; in cushion plant community on granite. 2970-3590m.
Lupinus antoninus	Anthony Peak lupine	None	None	1B.3	USFS- Sensitive	Upper montane coniferous forest, lower montane coniferous forest.	Open areas with surrounding forest; rocky sites. 1210- 2285m.
					BLM- Sensitive; USFS-		Open Jeffrey pine forest, in granitic sand or volcanic soils
Astragalus shevockii	Shevock's milk-vetch	None	None	1B.3	Sensitive	Upper montane coniferous forest.	and in pine-needle duff. 1875-1965m.
Galium angustifolium ssp. jacinticum	San Jacinto Mountains bedstraw	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest.	Open mixed forest. 1630-1940m.
Chaenactis carphoclinia var. peirsonii	Peirson's pincushion	None	None	1B.3		Sonoran desert scrub.	Open rocky or sandy sites. 3-80m.
Anisocarpus scabridus	scabrid alpine tarplant	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Upper montane coniferous forest.	Open stony ridges, metamorphic scree slopes of mountain peaks, and cliffs in or near red fir forest. 1650-2300m.
Streptanthus callistus	Mt. Hamilton jewel-flower	None	None	1B.3	BLM- Sensitive	Chaparral, cismontane woodland.	Open talus slopes on shale with grey pine and/or black oak. 600-790m.
Streptanthus campestris	southern jewel-flower	None	None	1B.3	USFS- Sensitive	Chaparral, lower montane coniferous forest, pinyon-juniper woodland.	Open, rocky areas. 600-2790m.
Eremogone cliftonii	Clifton's eremogone	None	None	1B.3	Sensitive	Lower montane coniferous forest, upper montane coniferous forest, chaparral.	Openings; granitic substrates. 445-1770m.
Draba sharsmithii	Mt. Whitney draba	None	None	1B.3	USFS- Sensitive	Alpine boulder and rock field.	Protected rock crevices. 3330-3940m.
					BLM- Sensitive; USFS-	Chaparral, lower montane coniferous forest, subalpine coniferous forest,	
Sedum paradisum	Canyon Creek stonecrop	None	None	1B.3	Sensitive BLM-	broadleafed upland forest. Pinyon-juniper woodland, Joshua tree	Rock faces, in crevices of exposed granite. 1060-1860m. Rocky desert slopes, often among granitic boulders. 1000-
Monardella robisonii	Robison's monardella	None	None	1B.3	Sensitive	woodland.	1500m.
Erythronium pluriflorum	Shuteye Peak fawn lily	None	None	1B.3	USFS- Sensitive	Upper montane coniferous forest, meadows, subalpine coniferous forest.	Rocky granitic outcrops and slopes. 2060-2550m.
Penstemon calcareus	limestone beardtongue	None	None	1B.3		Mojavean desert scrub, pinyon-juniper woodland, Joshua tree woodland.	Rocky limestone cliffs and canyon bottoms. 1065-2040m.
Chorizanthe breweri	Brewer's spineflower	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Chaparral, cismontane woodland, coastal scrub, closed-cone coniferous forest.	Rocky or gravelly serpentine sites; usually in barren areas. 45-800m.
					USFS-	Lower montane conif. forest, subalpine coniferous forest, upper montane coniferous forest, alpine boulder & rock	
Heuchera parishii	Parish's alumroot	None	None	1B.3	BLM-	field.	Rocky places. 1500-3800m.
Eriogonum ursinum var. erubescens Chaenactis parishii	blushing wild buckwheat Parish's chaenactis	None None	None None	1B.3 1B.3	Sensitive; USFS- Sensitive	Lower montane coniferous forest, montane chaparral. Chaparral.	Rocky sites including scree and talus. 1600-1900m. Rocky sites. 1300-2500m.
Mentzelia inyoensis	Inyo blazing star	None	None	1B.3	BLM- Sensitive	Great Basin scrub, pinyon-juniper woodland.	Rocky sites. 1150-1980m.
Draba corrugata var. saxosa	Southern California rock draba	None	None	1B.3	USFS- Sensitive	Alpine boulder and rock fields, subalpine coniferous forest, upper montane coniferous forest.	Rocky sites. 2440-3600m.
Erigeron miser	starved daisy	None	None	1B.3	USFS- Sensitive	Upper montane coniferous forest.	Rocky, granitic outcrops. 1755-2260m.
Allium sharsmithiae	Sharsmith's onion	None	None	1B.3		Cismontane woodland.	Rocky, serpentine slopes. 400-1200m.
Arabis koehleri var. stipitata	Koehler's stipitate rock- cress	None	None	1B.3	USFS- Sensitive	Chaparral, lower montane coniferous forest.	Rocky, serpentine substrate. 155-1810m.
Opuntia munzii	Munz's cholla	None	None	1B.3	BLM- Sensitive	Sonoran desert scrub.	Sandy and rocky desert flats and hills.
Eriogonum umbellatum var. glaberrimum	Warner Mountains buckwheat	None	None	1B.3	BLM- Sensitive; USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest.	Sandy or gravelly sites. 1600-2300m.

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Gilia leptantha ssp. leptantha	San Bernardino gilia	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest.	Sandy or gravelly sites. 1500-2350m.
	g						and the second s
					BLM- Sensitive;		
Chaenactis suffrutescens	Shasta chaenactis	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest.	Sandy or serpentine soils. 760-2100m.
Eriogonum nortonii	Pinnacles buckwheat	None	None	1B.3		Chaparral, valley and foothill grassland.	Sandy soils; often on recent burns; western Santa Lucias. 390-975m.
Lupinus magnificus var.					BLM-	Great Basin scrub, upper montane	
hesperius	Mcgee Meadows lupine	None	None	1B.3	Sensitive	coniferous forest.	Sandy substrates. 1260-1830m.
0		N	Mana	40.0	BLM-	O'constant and dead	0
Cryptantha excavata	deep-scarred cryptantha	None	None	1B.3	Sensitive	Cismontane woodland. Alpine boulder and rock field, subalpine	Sandy, gravelly, dry streambanks. 100-500m. Seasonally wet swales and seeps; gravelly or rocky sites;
Potentilla cristae	crested potentilla	None	None	1B.3		coniferous forest.	often on serpentine. 1800-2800m.
Lupinus gracilentus	slender lupine	None	None	1B.3	USFS- Sensitive	Subalpine coniferous forest.	Semi-moist shaded areas. 2500-3500m.
	Tehama County western				BLM-		
Hesperolinon tehamense	flax	None	None	1B.3	Sensitive	Chaparral, cismontane woodland.	Serpentine barrens in chaparral. 545-1155m.
Sidologo biokmonii can viridio	Marin shockarbloom	None	None	1D 2	USFS-	Chaparral.	Serpentine or volcanic soils; sometimes appears after burns.
Sidalcea hickmanii ssp. viridis	Marin checkerbloom	None	ivorie	1B.3	Sensitive	Спараггаі.	0-430m.
Dudleya abramsii ssp. murina	mouse-gray dudleya	None	None	1B.3	BLM- Sensitive	Chaparral, cismontane woodland.	Serpentine outcrops. 90-300m.
Erigeron serpentinus	serpentine daisy	None	None	1B.3		Chaparral.	Serpentine shrubland; one site known. 210m.
					BLM- Sensitive;		
Minuartia stolonifera	Scott Mountain sandwort	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest.	Serpentine soils, Jeffrey pine forest. 1250-1400m.
William ta Stolomera	Occit wicultum sundwort	None	None	15.0		Edwer montane connerous forest.	Scripentine soils, series pine forest. 1200 1400m.
					BLM- Sensitive;		
Erythronium citrinum var. roderickii	Scott Mountains fawn lily	None	None	1B.3	USFS- Sensitive	Lower montane coniferous forest.	Serpentine. 815-1220m.
					BLM-		
Perityle villosa	Hanaupah rock daisy	None	None	1B.3	Sensitive	Pinyon and juniper woodland.	Shaded rock crevices. 2120-2410m.
Eriogonum eastwoodianum	Eastwood's buckwheat	None	None	1B.3		Cismontane woodland.	Shale, including diatomaceous shale. 500-1000m.
Constancea nevinii	Nevin's woolly sunflower	None	None	1B.3		Coastal bluff scrub, coastal scrub.	Slopes and cliffs. 5-410m.
Eriogonum microthecum var.	laboratoria businubant	Nana	Nana	4D 2	USFS-	Subalpine coniferous forest, upper	Classes and sides an exercite as limesetane 2010 2000m
johnstonii	Johnston's buckwheat	None	None	1B.3	Sensitive	montane coniferous forest.	Slopes and ridges on granite or limestone. 2210-2900m.
					BLM- Sensitive;		
Linanthus orcuttii	Orcutt's linanthus	None	None	1B.3	USFS- Sensitive	Chaparral, lower montane coniferous forest.	Sometimes in disturbed areas; often in gravelly clearings. 1060-2000m.
					USFS-	Chaparral, lower montane coniferous	South facing slopes on granitic slabs and domes; gravelly
Eriophyllum nubigenum	Yosemite woolly sunflower	None	None	1B.3	Sensitive	forest, upper montane coniferous forest.	soils. 1500-2365m.
Triteleia ixioides ssp. cookii	Cook's triteleia	None	None	1B.3	USFS-	Cismontane woodland, closed-cone coniferous forest.	Streamsides, wet ravines; on serpentine and in serpentine seeps. Sometimes near cypresses. ?-500m.
,					Sensitive	Closed-cone coniferous forest,	
Streptanthus batrachopus	Tamalpais jewel-flower	None	None	1B.3		chaparral. Closed-cone coniferous forest,	Talus serpentine outcrops. 410-650m. Usu. found in chap. or coastal scrub; sometimes in tecate
Lepechinia ganderi	Gander's pitcher sage	None	None	1B.3	BLM- Sensitive	chaparral, coastal scrub, valley and foothill grassland.	cypress wdlnd. Gabbro or metavolcanic substrate. 300- 1000m.
Asclepias nyctaginifolia	Mojave milkweed	None	None	2.1		Mojavean desert scrub, pinyon-juniper woodland.	1000-1700m.
Lathyrus japonicus	seaside pea	None	None	2.1		Coastal dunes.	1-30m.
						Mojavean desert scrub, Sonoran desert	
Coryphantha chlorantha	desert pincushion	None	None	2.1		scrub, Joshua tree woodland, pinyon and juniper woodland.	Calcareous substrates; rocky and gravelly sites. 300-2400m.
					USFS-		
Botrychium montanum	western goblin	None	None	2.1	Sensitive	Lower montane coniferous forest. Chenopod scrub, Mojavean desert	Creekbanks in old-growth forest. 1500-1830m. Dry sites in loose sandy soil in washes and desert foothills in
Oryctes nevadensis	Nevada oryctes	None	None	2.1		scrub.	the Owens Valley. 1100-2535m.
Cordylanthus orcuttianus	Orcutt's bird's-beak	None	None	2.1		Coastal scrub.	Found in coastal scrub associations on slopes; also reported from intermittently moist swales, and in washes. 100-200m
Co. aylantilas orcuttarius	S. Salt & Dira S-Deak						·
Adolphia californica	California adolphia	None	None	2.1		Chaparral, coastal sage scrub, valley and foothill grassland.	From sandy/gravelly to clay soils within grassland, coastal sage scrub, or chaparral; various exposures. 15-300m.
Triteleia grandiflora var. howellii	Howell's triteleia	None	None	2.1		Great Basin scrub, pinyon-juniper woodland.	In rocky areas in sagebrush scrub, and in woodland. 700- 1500m.
Crepis runcinata ssp. hallii	Hall's meadow hawksbeard	None	None	2.1		Mojavean desert scrub, pinyon-juniper woodland.	Moist, alkaline valley bottoms. 375-2100m.
Ferocactus viridescens	San Diego barrel cactus	None	None	2.1		Chapparal, Diegan coastal scrub, valley and foothill grassland.	Often on exposed, level or south-sloping areas; often in coastal scrub near crest of slopes. 3-485m.
Stemodia durantifolia	purple stemodia	None	None	2.1		Sonoran desert scrub.	Sandy soils; mesic sites. 180-300m.
Ambrosia chenopodiifolia	San Diego bur-sage	None	None	2.1		Coastal scrub, mostly associated with maritime succulent scrub.	Slopes of canyons in open succulent scrub usually with little herbaceous cover. 55-150m.

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Horkelia congesta ssp. nemorosa	Josephine horkelia	None	None	2.1		North Coast coniferous forest.	Vernally moist rock, clay. Generally serpentine. 300-800 m.
Opuntia fragilis	brittle prickly-pear	None	None	2.1		Pinyon-juniper woodland.	Volcanic soils. 820m in california.
Polemonium carneum	Oregon polemonium	None	None	2.2		Coastal prairie, coastal scrub, lower montane coniferous forest.	0-1830m.
Mertensia longiflora	long bluebells	None	None	2.2		Great Basin scrub, lower montane coniferous forest.	1525-2200m.
Sphaeralcea munroana Packera bolanderi var.	Munro's desert mallow	None	None	2.2		Great Basin scrub. Coastal scrub, North Coast coniferous	2000m.
bolanderi	seacoast ragwort	None	None	2.2		forest.	30-650m.
Androstephium breviflorum	small-flowered androstephium	None	None	2.2		Mojavean desert scrub, desert dunes.	Bajadas. One site known from sand dunes. 270-1600m.
						Alpine boulder and rock fields, pinyon- juniper woodland, subalpine coniferous	Bare ridges above timber line in pumice gravel, granite,
Astragalus platytropis	broad-keeled milk-vetch	None	None	2.2		forest.	dolomite, or limestone. 2330-3550m.
Thelypodium milleflorum	many-flowered thelypodium	None	None	2.2		Great Basin scrub, chenopod scrub.	Big sagebrush & rabbitbrush/bitterbrush scrubs in sandy soils; often w/other sand-related herbs. 1200-2500m.
	uncrypodium	None	None	2.2			Solis, orderi wiodier sund related nerss. 1200 2000m.
Astragalus serenoi var. shockleyi	Shockley's milk-vetch	None	None	2.2		Chenopod scrub, pinyon and juniper woodland, Great Basin scrub.	Coarse, granitic alluvium. 1500-2250m.
					USFS-		
Botrychium minganense Senna covesii	mingan moonwort Coves' cassia	None None	None None	2.2 2.2	Sensitive	Lower montane coniferous forest. Sonoran desert scrub.	Creekbanks in mixed conifer forest. 1500-2275m. Dry, sandy desert washes, slopes. 200-1070m.
				2.2		Great Basin scrub, pinyon-juniper	
Viola aurea	golden violet	None	None			woodland.	Dry, sandy slopes. 835-1800m.
Senecio aphanactis Teucrium cubense ssp.	chaparral ragwort	None	None	2.2		Cismontane woodland, coastal scrub. Desert dunes, playas, Sonoran desert	Drying alkaline flats. 20-575m.
depressum	dwarf germander	None	None	2.2		scrub.	Dunes, playa margins and scrub. 45-400m.
Stenotus lanuginosus	woolly stenotus	None	None	2.2	BLM- Sensitive	Pinyon-juniper woodland, Great Basin scrub.	Exposed ridges and flats in shallow, rocky soil. Often in sagebrush at edges of other vegetation types. 1500-1850m.
					Sensitive	Great Basin scrub, pinyon and juniper	
Aliciella triodon	coyote gilia	None	None	2.2		woodland.	Fine clayey sand or sand. 610-1700m.
Sclerocactus johnsonii	Johnson's bee-hive cactus	None	None	2.2		Mojavean desert scrub.	Granitic soils. 500-1200m.
Lupinus uncialis	lilliput lupine	None	None	2.2	BLM- Sensitive	Great Basin scrub, pinyon-juniper woodland.	Hilltops, bluffs, barrens, & talus in sagebrush scrub and p-j wdlnd. on limestone, rhyolite, volc ash, etc. 1300-14005m.
·					CONTONUTO	Mojavean desert scrub, Sonoran desert	
Ditaxis claryana Nemacaulis denudata var.	glandular ditaxis	None	None	2.2		scrub. Coastal dunes, desert dunes, Sonoran	In dry washes and on rocky hillsides. Sandy soils. 0-465m.
gracilis	slender cottonheads	None	None	2.2		desert scrub.	In dunes or sand. 0-560m.
Lewisia oppositifolia	opposite-leaved lewisia	None	None	2.2	USFS- Sensitive	Lower montane coniferous forest.	In open, rocky, shallow soils; sometimes on serpentine. Mesic sites. 300-1220m.
Hulsea vestita ssp. inyoensis	Inyo hulsea	None	None	2.2		Pinyon-juniper woodland, Great Basin scrub.	In volcanic ash on steep slopes. 1635-3000m.
ridiod vocita cop. mycoriolo	inyo naiood	T T T T T T T T T T T T T T T T T T T	110110				
Castilleja miniata ssp. elata	Siskiyou paintbrush	None	None	2.2		Lower montane coniferous forest, bogs and fens.	Limited to mesic serpentine soils; often associated with bogs, seeps, stream benches, and dry gullies. 0-1750m.
Bergerocactus emoryi	golden-spined cereus	None	None	2.2		Coastal scrub, sometimes chaparral margins.	Limited to the coastal belt. Usually on clay soils. 3-395m.
Didymodon norrisii	Norris' beard moss	None	None	2.2		Cismontane woodland, lower montane coniferous forest.	Moss from intermittently mesic sites; on rocks. 600-1700m.
.,					USFS-	Cismontane woodland. Commonly	
Mielichhoferia elongata	elongate copper moss	None	None	2.2	Sensitive	called "copper mosses".	Moss growing on metamorphic rock; usually vernally mesic. 500-1300m.
					USFS-		Moss growing on rocks in stream channels and waterfalls;
Fissidens aphelotaxifolius	brook pocket moss	None	None	2.2	Sensitive	montane coniferous forest. Broadleafed upland forest, upper	also in splash zones. 2000-2200m.
Trichodon cylindricus	cylindrical trichodon	None	None	2.2		montane coniferous forest.	Moss growing on sandy, exposed soil, roadbanks. 50-1500m.
Scopelophila cataractae Discelium nudum	tongue-leaf copper moss naked flag moss	None None	None None	2.2 2.2		Cismontane woodland. Coastal bluff scrub.	Moss on metamorphic substrate; on soil. 400m. Moss that grows on soil on clay banks. 10-50m.
Discellani nadani	maked mag moss	None	None	2.2		Broadleafed upland forest, lower	-
Anomobryum julaceum	slender silver moss	None	None	2.2		montane coniferous forest, north coast coniferous forest.	Moss which grows on damp rocks and soil; usually seen on roadcuts. 100-1000m.
Coreopsis maritima	sea dahlia	None	None	2.2		Coastal scrub, coastal bluff scrub.	Occurs on a variety of soil types, including sandstone. 5- 150m.
Lathyrus rigidus	rigid pea	None	None	2.2		Great Basin scrub, pinyon-juniper woodland.	Often in disturbed areas. 800-1525m.
						Broadleaved upland forest, North Coast	
Monotropa uniflora	ghost-pipe	None	None	2.2		coniferous forest.	Often under redwoods or western hemlock. 10-200m. On decomposed granite, or in gravelly limestone soils. 1240-
Enneapogon desvauxii	nine-awned pappus grass	None	None	2.2		Pinyon and juniper woodland.	1825m.
Eriogonum pendulum	Waldo wild buckwheat	None	None	2.2	USFS- Sensitive	Lower montane coniferous forest, upper montane coniferous forest.	On dry, rocky ultramafic soils; open somewhat grassy areas w/in pine forest. 225-1000m.
Coryphantha vivipara var.	viviparous foxtail cactus	None	None	2.2		Mojavean desert scrub, pinyon and juniper woodland.	On gravelly limestone or volcanic slopes and brushy hillsides. 1250-2700m.
						Lower montane coniferous forest,	
Cordylanthus capitatus	Yakima bird's-beak	None	None	2.2		pinyon-juniper woodland.	On open dry slopes and woodlands. 1800-2095m.
Arabis shockleyi	Shockley's rock-cress	None	None	2.2	USFS- Sensitive	Pinyon and juniper woodland.	On ridges, rocky outcrops and openings on limestone or quartzite; usually in pinyon or p-j series. 875-2205m.
Fraxinus parryi	chaparral ash	None	None	2.2		Chaparral.	Open mixed chaparral and in the chaparral-sage scrub interface in California. 213-620m.
Eriogonum nudum var.							
paralinum	Del Norte buckwheat	None	None	2.2	i	Coastal bluff scrub, coastal prairie.	Open places along immediate coast. 5-80m.

Scientific Name	Common name	Federal listing status	Calif listing status	CNPS List	Other Status	General Habitat	Micro-Habitat
Astragalus insularis var. harwoodii	Harwood's milk-vetch	None	None	2.2		Desert dunes.	Open sandy flats and sandy or stony desert washes; mostly in creosote bush scrub50-500m.
Triteleia hendersonii var. hendersonii	Henderson's triteleia	None	None	2.2		Cismontane woodland.	Open slopes and roadbanks. 760-1200m.
Arnica fulgens	hillside arnica	None	None	2.2		Great Basin scrub, lower montane coniferous forest, meadows.	Open, damp depressions and meadows in sagebrush scrub or juniper woodland. 1470-2700m.
Munroa squarrosa	false buffalo-grass	None	None	2.2		Pinyon-juniper woodland.	Open, gravelly or rocky places. 1500-2400m.
Microseris laciniata ssp. detlingii	Detling's silverpuffs	None	None	2.2		Cismontane woodland.	Openings in clay soils. 600-1500m.
Erythronium oregonum	giant fawn lily	None	None	2.2		Cismontane woodland, meadows and seeps.	Openings. Sometimes on serpentine; rocky sites. 100-500m.
Sanvitalia abertii	Abert's sanvitalia	None	None	2.2		Pinyon-juniper woodland.	Rocky limestone slopes and washes. 1570-1800m.
Euphorbia misera Carnegiea gigantea	cliff spurge saguaro	None None	None None	2.2		Coastal bluff scrub, coastal scrub. Sonoran desert scrub.	Rocky sites. 10-500m. Rocky sites. 50-1500m.
Arctomecon merriamii	white bear poppy	None	None	2.2		Chenopod scrub, Mojavean desert scrub.	Rocky slopes, calcareous soil, loose shale, or sandy washes. 490-1585m.
Muhlenbergia appressa	appressed muhly	None	None	2.2		Coastal sage scrub, Mojavean desert scrub, valley and foothill grassland. Possibly undercollected in California. Cismontane woodland, lower montane	Rocky slopes, canyon bottoms. 20-1600m.
Lomatium peckianum	Peck's lomatium	None	None	2.2		coniferous forest, pinyon and juniper woodland.	Rocky slopes, flats, & sometimes grassy openings, in yellow pine-black oak woodland, on volcanic soils. 700-1800m.
Shepherdia canadensis	Canadian buffalo-berry	None	None	2.2		Upper montane coniferous forest.	Rocky streamsides, on serpentine. 1731m in California. Rocky, subalpine woods; one site near Gasquet in "Boggy
Vaccinium scoparium	little-leaved huckleberry	None	None	2.2		Subalpine coniferous forest.	Creek." (135)1800-2365m.
Salvia munzii	Munz's sage	None	None	2.2		Coastal scrub, chaparral. Desert dunes, Mojavean desert scrub,	Rolling hills and slopes, in rocky soil. 120-1090m. Sand of dunes, dry lake borders, river bottoms, washes,
Opuntia pulchella	beautiful cholla	None	None	2.2		Great Basin scrub?	valleys and sagebrush desert. 1500-1980m.
Loeflingia squarrosa var. artemisiarum	sagebrush loeflingia	None	None	2.2	BLM- Sensitive	Great Basin scrub, Sonoran desert scrub, desert dunes.	Sandy flats and dunes. Sandy areas around clay slicks w/Sarcobatus, Atriplex, Tetradymia, etc. 700-1200m.
Astragalus geyeri var. geyeri	Geyer's milk-vetch	None	None	2.2		Chenopod scrub, Great Basin scrub.	Sandy flats and valley floors, depressions in mobile or stabilized dunes, and along draws. 1150-1550m.
Astragalus allochrous var. playanus	playa milk-vetch	None	None	2.2		Mojavean desert scrub.	Sandy flats, in creosote bush scrub. 780-805m.
						Mojavean desert scrub, pinyon and juniper woodland, Joshua tree	
Cymopterus multinervatus Camissonia arenaria	purple-nerve cymopterus sand evening-primrose	None None	None None	2.2		woodland. Sonoran desert scrub.	Sandy or gravelly places. 790-1800m.
						Great Basin scrub, Mojavean desert	Sandy or rocky sites70-915m. Sandy or rocky sites; alkaline, usually volcanic soils. 1170-
Mentzelia torreyi Castilleja affinis ssp. litoralis	Torrey's blazing star Oregon coast paintbrush	None None	None	2.2		scrub, pinyon-juniper woodland. Coastal bluff scrub, coastal dunes, coastal scrub.	2835m. Sandy sites. 15-100m.
Grusonia parishii	Parish's club-cholla	None	None	2.2		Mojavean desert scrub, Sonoran desert scrub, Joshua tree woodland.	Sandy sites. 300-1524m.
						Mojavean desert scrub, Sonoran desert	
Chamaesyce abramsiana	Abrams' spurge	None	None	2.2		scrub. Desert dunes, Great Basin scrub,	Sandy sites5-915m.
Chaetadelpha wheeleri	Wheeler's dune-broom	None	None	2.2		Mojavean desert scrub.	Sandy sites. 850-1900m.
Ambrosia monogyra Tetradymia tetrameres	singlewhorl burrobrush dune horsebrush	None None	None None	2.2		Chaparral, Sonoran desert scrub. Great Basin scrub.	Sandy soils. 10-500m. Sandy soils. 1200-2135m.
Cymopterus globosus	globose cymopterus	None	None	2.2		Great Basin scrub.	Sandy, open flats. 1200-2135m.
						Broadleafed upland forest, lower montane coniferous forest, upper	
Arabis aculeolata	Waldo rock-cress	None	None	2.2		montane coniferous forest.	Serpentine slopes and ridges. 410-1800m. Shaded sites, gravelly soils; crevices or among rocks. 300-
Selaginella eremophila	desert spike-moss	None	None	2.2		Sonoran desert scrub.	2425m.
Eriogonum ochrocephalum var. alexanderae	Alexander's buckwheat	None	None	2.2		Great Basin scrub, pinyon and juniper woodland. Chaparral, Mojavean desert scrub,	Shale or gravel. 1300-2880m. Stabilized hybrid between O. phaecantha x O. chlorotica.
Opuntia curvispina	curved-spine beavertail	None	None	2.2		pinyon-juniper woodland.	1000-1400m.
Hymenoxys lemmonii	alkali hymenoxys	None	None	2.2		Great Basin scrub, lower montane coniferous forest, meadows and seeps.	Subalkaline soils. 240-1000m.
Viola palustris	alpine marsh violet	None	None	2.2		Coastal scrub, bogs and fens.	Swampy, shrubby places in coastal scrub or coastal bogs. 0-15m.
Campylopodiella stenocarpa	flagella-like atractylocarpus	None	None	2.2		Cismontane woodland.	Unknown. 100-500m.
Mertensia oblongifolia var. oblongifolia	sagebrush bluebells	None	None	2.2		Great Basin scrub, lower montane coniferous forest, meadows and seeps, subalpine coniferous forest.	Usually in mesic sites. 1000-3000m.
Atriplex gardneri var. falcata	falcate saltbush	None	None	2.2		Chenopod scrub, Great Basin scrub.	Usually on subalkaline soils in low chenopod scrub. 1200- 1700m.
Polygala subspinosa	spiny milkwort	None	None	2.2		Great Basin scrub, pinyon-juniper woodland.	Volcanic mesas, gravelly soils; often in sagebrush scrub. 1270-1705m.
Lomatium foeniculaceum var.	op.ily illinamolt					Chenopod scrub, Great Basin scrub, lower montane coniferous forest, pinyon-	12.0 00111.
macdougalii	Macdougal's Iomatium	None	None	2.2		juniper woodland.	Volcanic soil. 1200-1900m.
Collomia tenella	slender collomia	None	None	2.2	BLM-	Upper montane coniferous forest. Great Basin scrub, lower montane coniferous forest, pinyon-juniper	Volcanic soils. 2170m.
Penstemon janishiae	Janish's beardtongue	None	None	2.2		woodland.	Volcanic soils; gravelly sites. 1065-2350m.
Astragalus tidestromii Trichophorum pumilum	Tidestrom's milk-vetch little bulrush	None None	None None	2.2	-	Mojavean desert scrub. Alpine dwarf scrub?	Washes; limestone. 600-1585m. Wet sites, limestone soils. 2875-3250m.
Carex scoparia	pointed broom sedge	None	None	2.2		Great Basin scrub.	Wet, open places. 130-1000m.
Monarda pectinata	plains bee balm	None	None	2.3		Joshua tree woodland, pinyon-juniper woodland.	
Mirabilis coccinea	red four o'clock	None	None	2.3		Pinyon-juniper woodland.	1070-1800m.
Eurybia merita	subalpine aster	None	None	2.3	l	Upper montane coniferous forest.	1300-2000m.

Phacela coerulea sky-blue phacelia None None 2.3 woodland. Erigeron nevadincola Nevada daisy None None 2.3 woodland. Erigeron nevadincola Nevada daisy None None 2.3 woodland. Eridectyon angustifolium Santa None None 2.3 Pinyon-juniper woodland. Eridectyon angustifolium Santa None None 2.3 Pinyon-juniper woodland. 1500-1900m. Silene oregana Oregon campion None None 2.3 Great Basin scrub, subalpine coniferous forest. 1500-2500m. Silene oregana Oregon campion None None 2.3 Great Basin scrub, subalpine coniferous 1500-2500m. Crobanche ludoviciana var. arenosa Suksdorf's broom-rape None None 2.3 Great Basin scrub. 1600m. Cryptantha celosioides Cocks-comb cat's-eye None None 2.3 Pinyon and juniper woodland. 1615m. Osmorhiza depauperata Dunt-fruited sweet-cicely None None 2.3 Lower montane coniferous forest. 1830-1850m. Cryptantha fenderi And dune cryptantha None None 2.3 Great Basin scrub. 1830-1850m. Synthyris missurica ssp. witten-tails None None 2.3 Subalpine coniferous forest. 1975m. Helimolobos virgata Virgate halimolobos None None 2.3 Meadows, pinyon and juniper woodland. 2000-3000m. BLM. Erideri Basin scrub. 1975m. Lower montane coniferous forest, upper	
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missurica kitten-tails None None 2.3 montane coniferous forest. 2000-2500m. Halimolobos virgata virgate halimolobos None None 2.3 Meadows, pinyon and juniper woodland. 2000-3000m. Polygala intermontana intermountain milkwort None None 2.3 Pinyon-juniper woodland. 2010-3080m. BLM- Oryzopsis exigua little ricegrass None None 2.3 Sensitive Great Basin scrub. 2345-2420m. USFS- Meadows, subalpine coniferous forest, upper montane coniferous forest. 2760-3400m. Lycium parishii Parish's desert-thorn None None 2.3 Coastal scrub, Sonoran desert scrub. 300-1000m. Erythronium hendersonii Henderson's fawn lily None None 2.3 Lower montane coniferous forest. 300-1600m. Festuca minutiflora small-flowered fescue None None 2.3 Alpine boulder and rock field. 3200-4050m.	
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Polygala intermontana intermountain milkwort None None 2.3 Pinyon-juniper woodland. 2010-3080m. BLM- Oryzopsis exigua little ricegrass None None 2.3 Sensitive Great Basin scrub. 2345-2420m. USFS- Meadows, subalpine coniferous forest, upper montane coniferous forest. 2760-3400m. Lycium parishii Parish's desert-thorn None None 2.3 Coastal scrub, Sonoran desert scrub. 300-1000m. Erythronium hendersonii Hendersonis fawn lily None None 2.3 Lower montane coniferous forest. 300-1600m. Festuca minutiflora small-flowered fescue None None 2.3 Alpine boulder and rock field. 320-4050m.	
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Botrychium lunaria common moonwort None None 2.3 Sensitive upper montane coniferous forest, upper montane coniferous forest. 2760-3400m. Lycium parishii Parish's desert-thorn None None 2.3 Coastal scrub, Sonoran desert scrub. 300-1000m. Erythronium hendersonii Hendersoni's fawn iily None None 2.3 Lower montane coniferous forest. 300-1600m. Festuca minutiflora small-flowered fescue None None 2.3 Alpine boulder and rock field. 3200-4050m. Camissonia claviformis ssp. cruciform evening-	
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Camissonia claviformis ssp. cruciform evening-	
cruciformis primrose None None 2.3 Chenopod scrub, Great Basin scrub. 600-1400m. Great Basin scrub, lower montane	
Mimulus cusickii Cusick's monkeyflower None None 2.3 coniferous forest. 600-1830m.	
Joshua tree woodland, pinyon-juniper cordylanthus parviflorus small-flowered bird's-beak None None 2.3 woodland, Mojavean desert scrub. 700-2200m.	
Chenopod scrub, Joshua tree woodland,	
Polygala acanthoclada thorny milkwort None None 2.3 pinyon-juniper woodland. 760-2285m. Camissonia boothii ssp. Joshua tree woodland, pinyon-juniper	
boothii Booth's evening-primrose None None 2.3 woodland. 900-2400m. Micromonolepis pusilla dwarf monolepis None None 2.3 Great Basin scrub. Alkaline sites, openings. 1500-2400m.	
	-1-
Pedicularis centranthera Great Basin lousewort None None 2.3 Sensitive Great Basin scrub. Alluvial fans; dry, ashy loam w/ Artemisia triden Juniperus, Chrysothamnus, etc. 1300-1500m.	ata,
Tonestus Iyallii Lyall's tonestus None None 2.3 Alpine boulder and rock field. Alpine talus, barrens. 2500-2700m. Upper montane coniferous forest, Among rocks on ridgetops, peaks, and at the barrens.	se of cliffs.
Phacelia sericea var. ciliosa blue alpine phacelia None None 2.3 subalpine coniferous forest. 2100-2700m. Lower montane coniferous forest, Bogs and seeps along creeks and on ridgetops	
Lomatium martindalei Coast Range lomatium None None 2.3 coastal bluff scrub, meadows. serpentine. 240-3000m.	01011 011
Carbonate; dry rocky slopes in creosote bush s	
Cymopterus gilmanii Gilman's cymopterus None None 2.3 Mojavean desert scrub. Last Chance Range to Death Valley. 1000-200 Subalpine coniferous forest, alpine Cracks, crevices in granite cliffs; large boulder to	
Hackelia sharsmithii Sharsmith's stickseed None None 2.3 boulder and rock fields. 3700m. Crevices in volcanic rock cliffs and on rock outc	ops. 1575-
Ivesia baileyi var. baileyi Bailey's ivesia None None 2.3 Lower montane coniferous forest. 2600m.	<u> </u>
Physalis lobata lobed ground-cherry None None 2.3 Mojavean desert scrub, playas. Decomposed granite soil, alkaline dry lakes. 51 Rubus nivalis snow dwarf bramble None None 2.3 North Coast coniferous forest. Deep soil, with Douglas-fir overstory. 1075-125	
Astragalus umbraticus Bald Mountain milk-vetch None None 2.3 Cismontane woodland. Dry open oak and pine woodlands. 200-1250m Pinyon and juniper woodland, Great	
Linum puberulum plains flax None None 2.3 Basin scrub, Joshua tree woodland, Mojavean desert scrub. Dry ridges. 1000-2500m.	
USFS- Mojavean desert scrub, Sonoran desert	
Matelea parvifolia spear-leaf matelea None None 2.3 Sensitive scrub. Dry rocky ledges and slopes. 440-1095m. Chaparral, pinyon and juniper woodland,	
Ipomopsis tenuifolia slender-leaved ipomopsis None None 2.3 Sonoran desert scrub. Dry rocky or gravelly slopes. 100-1200m.	
Dry slopes and flats; open sandy spots in chap: Linanthus bellus desert beauty None None 2.3 Chaparral. loamy coarse sandy dg soil types. 920-1400m.	rral, mostly in
white-margined Lower montane coniferous forest, upper Antennaria marginata everlasting None None 2.3 montane coniferous forest. Dry woods. 2120-3330m.	
Salix brachycarpa ssp. Alpine dwarf scrub, meadows and Edges of lakes, and in wet meadows, on limest	ne, marble,
brachycarpa short-fruited willow None None 2.3 seeps, subalpine coniferous forest. and metamorphic substrates. 3150-3500m.	
Chaparral, lower montane coniferous forest, subalpine coniferous forest,	ļ
Asplenium septentrionale northern spleenwort None None 2.3 upper montane coniferous forest. Forms grass-like tufts in granitic rock crevices. Acleisanthes longiflora angel trumpets None None 2.3 Sonoran desert scrub. Generally on limestone. 10-2500m.	1615-3350m.
	-
Potentilla rimicola cliff cinquefoil None None 2.3 Sensitive montane coniferous forest, upper montane coniferous forest. Granite crevices; rocky sites. 2390-3030m.	
Granitic boulders and fissures in granite cliffs, a Pellaea truncata spiny cliff-brake None None 2.3 Pinyon-juniper woodland. volcanic or sandy limestone soils. 1200-2150m	
Psorothamnus fremontii var. attenuatus narrow-leaved attenuatus none None None 2.3 Sonoran desert scrub. Granitic or volcanic soils. 365-900m.	

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Scientific Name	Common name	Federal listing status	Calif listing status	CNPS List	Other Status	General Habitat	Micro-Habitat
						Joshua tree woodland, pinyon-juniper	Granitic, gravelly slopes & mesas. Often under desert shrubs
Arabis dispar Scleropogon brevifolius	pinyon rock-cress burro grass	None None	None None	2.3		woodland, Mojavean desert scrub. Mojavean desert scrub.	which support it as it grows. 1200-2400m. Grassy areas, decomposed granite. 1575-1600m.
Ociciopogon bievilonas	burro grass	TTOTIC	None	2.0		iviojavean desert serab.	Crassy areas, accomposed granite. 1070 1000iii.
Botrychium ascendens	upswept moonwort	None	None	2.3	USFS- Sensitive	Lower montane coniferous forest.	Grassy fields, coniferous woods near springs and creeks. 1500-2060m.
Oxytropis oreophila var.	upswept moonwort	None	None	2.5	Sensitive	Alpine boulder and rock field, subalpine	1300-2000111.
oreophila	rock-loving oxytrope	None	None	2.3		coniferous forest.	Gravelly or rocky sites. 3400-3800m.
Boechera pendulina	rabbit-ear rockcress	None	None	2.3		Great Basin scrub. Alpine boulder and rock field, subalpine	Gravelly or rocky substrates. 3050m.
Townsendia condensata	cushion townsendia	None	None	2.3		coniferous forest.	Gravelly sites. 2865-3675m.
Castela emoryi	Emory's crucifixion-thorn	None	None	2.3		Mojavean desert scrub, Sonoran desert scrub, playas.	Gravelly soils, sometimes in alkali playas or washes. 85- 770m.
Draba breweri var. cana	canescent draba	None	None	2.3		Alpine boulder and rock field, meadows, subalpine coniferous forest.	In Calif., known only from two occurrences near Lake Genevieve and Wheeler Pk. 3000-3505m.
							In California, on lakeshore with Potentilla, Salix spp.,
Salix nivalis Dryopteris filix-mas	snow willow male fern	None None	None None	2.3		Alpine dwarf scrub. Upper montane coniferous forest.	Penstemon, etc. 3100-3500m. In granite crevices. 2400-3100m.
Erigeron bloomeri var.						Lower montane coniferous forest, upper	In open areas on dry rocky outcrops on serpentine. 600-
nudatus Allium atrorubens var.	Waldo daisy	None	None	2.3		montane coniferous forest. Great Basin scrub, pinyon-juniper	2300m. In sandy, rocky, gravelly, or sometimes clay soils in the
atrorubens	Great Basin onion	None	None	2.3		woodland.	White Mountains. 1200-2100m.
Claytonia megarhiza	fell-fields claytonia	None	None	2.3		Alpine fell fields, subalpine coniferous forest.	In the crevices between rocks, rocky or gravelly soil. 2600- 3300m.
Olaytonia megamiza	icii-licidə daytorlia	TTOTIC	THORE			Upper montane coniferous forest, Great	Known in CA only from the Warner Mtns, on a dry, rocky
Delphinium stachydeum	spiked larkspur	None	None	2.3		Basin scrub.	ridge. 1950-2600m.
							Limestone ravines and rocky hills, sometimes in narrow crevices. Assoc incl Agave utahensis, Salvia funerea. 700-
Bouteloua trifida	three-awned grama	None	None	2.3		Mojavean desert scrub.	2000m.
Physaria chambersii Erigeron utahensis	Chambers' physaria Utah daisy	None None	None None	2.3		Pinyon-juniper woodland. Pinyon-juniper woodland.	Limestone soils; rocky sites. 1500-2590m. Limestone. 1500-2320m.
Geraea viscida	sticky geraea	None	None	2.3		Chaparral.	Loamy coarse sand to gravelly sand soils; often in post burned areas and in bulldozed areas. 450-1700m.
Stachys palustris ssp. pilosa Valeriana occidentalis	hairy marsh hedge-nettle western valerian	None None	None None	2.3		Great Basin scrub. Lower montane coniferous forest.	Mesic sites. 1200-1525m. Mesic sites. 1500-1800m.
Arenaria lanuginosa ssp. saxosa	rock sandwort	None	None	2.3	USFS- Sensitive	Subalpine coniferous forest, upper montane coniferous forest.	Mesic, sandy sites. 1800-2600m.
Saxosa	lock salidwort	None	None	2.5	Sensitive	montane connerous lorest.	iviesic, sairdy sites. 1000-2000111.
Kobresia bellardii	seep kobresia	None	None	2.3		Alpine boulder and rock field (mesic), meadows, subalpine coniferous forest.	Moist places in alpine and subalpine meadows; can be on limestone substrate. 2955-3230m.
Saxifraga rufidula	red-wool saxifrage	None	None	2.3		Upper montane coniferous forest.	Moist, rocky areas. 1850-2000m.
Manualla interes						Alpine boulder and rock field, subalpine	
				2.2		if ft	Mana are view on down and and anii 0700 2000m
Myurella julacea Pohlia tundrae	small mousetail moss tundra thread moss	None None	None None	2.3		coniferous forest. Alpine boulder and rock field.	Moss growing on damp rock and soil. 2700-3000m. Moss growing on gravelly, damp soil. 2700-3000m.
Pohlia tundrae Sphagnum strictum	tundra thread moss pale peat moss	None None	None None	2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest.	Moss growing on gravelly, damp soil. 2700-3000m. Moss growing on soil at lake margins. 2600-2800m.
Pohlia tundrae	tundra thread moss	None	None	2.3		Alpine boulder and rock field.	Moss growing on gravelly, damp soil. 2700-3000m.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana	tundra thread moss pale peat moss	None None	None None	2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest.	Moss growing on gravelly, damp soil. 2700-3000m. Moss growing on soil at lake margins. 2600-2800m.
Pohlia tundrae Sphagnum strictum Tortella alpicola	tundra thread moss pale peat moss alpine crisp moss	None None None	None None None	2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland.	Moss growing on gravelly, damp soil. 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa	tundra thread moss pale peat moss alpine crisp moss Oregon sedge	None None None	None None None	2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields.	Moss growing on gravelly, damp soil, 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var.	tundra thread moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba	None None None None None	None None None None None	2.3 2.3 2.3 2.3 2.3	BLM- Sensitive	Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert	Moss growing on gravelly, damp soil, 2700-3000m. Moss growing on soil at lake margins, 2600-2800m. Moss on volcanic rock, 1400m in California. Often on pumice, 1370-2060m. On limestone scree, 3000-3295m.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis	tundra thread moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress	None None None None None None None	None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3	BLM- Sensitive	Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub.	Moss growing on gravelly, damp soil. 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone. 1100-2075m. On limestone; rocky slopes, rock/cliff bases, and rock
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var.	tundra thread moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba	None None None None None	None None None None None	2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert	Moss growing on gravelly, damp soil, 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone. 1100-2075m.
Pohlia tundrae Sphagnum strictum Tortelia alpicola Carex halliana Draba lonchocarpa var. Ionchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica	tundra thread moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress	None None None None None None None	None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub.	Moss growing on gravelly, damp soil. 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone. 1100-2075m. On limestone; rocky slopes, rock/cliff bases, and rock
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Pohlia tundrae Sphagnum strictum Tortelia alpicola Carex halliana Draba lonchocarpa var. Ionchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica	tundra thread moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella	None None None None None None None None	None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub.	Moss growing on gravelly, damp soil. 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone. 1100-2075m. On limestone; rocky slopes, rock/cliff bases, and rock crevices. 305-1770m. On narrow, steep, rocky ravines or washes. 10-1000m. On rocks. 185-200m. On rocks 189-200m.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes	tundra thread moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest.	Moss growing on gravelly, damp soil, 2700-3000m. Moss growing on soil at lake margins, 2600-2800m. Moss on volcanic rock, 1400m in California. Often on pumice. 1370-2060m. On limestone scree, 3000-3295m. On limestone, 1100-2075m. On limestone, rocky slopes, rock/cliff bases, and rock crevices, 305-1770m. On narrow, steep, rocky ravines or washes. 10-1000m. On rocks, 185-200m. On rocky slopes, 2900-4200m. On slopes in dry gravelly volcanic soils, 1330-2300m.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes Elymus scribneri	undra thread moss pale peat moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort Scribner's wheat grass	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest. Alpine boulder and rock field.	Moss growing on gravelly, damp soil, 2700-3000m. Moss growing on soil at lake margins, 2600-2800m. Moss on volcanic rock, 1400m in California. Often on pumice, 1370-2060m. On limestone scree, 3000-3295m. On limestone, 1100-2075m. On limestone, rocky slopes, rock/cliff bases, and rock crevices, 305-1770m. On narrow, steep, rocky ravines or washes, 10-1000m. On rocks, 185-200m. On rocks, 189-200m.
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Pohlia tundrae Sphagnum strictum Tortelia alpicola Carex halliana Draba lonchocarpa var. Ionchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes Elymus scribneri Dimeresia howellii Carex parryana var. hallii	tundra thread moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort Scribner's wheat grass doublet Parry's sedge	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest. Alpine boulder and rock field. Pinyon-juniper woodland. Meadows, subalpine coniferous forest. Alpine boulder and rock field, subalpine	Moss growing on gravelly, damp soil, 2700-3000m. Moss growing on soil at lake margins, 2600-2800m. Moss on volcanic rock, 1400m in California. Often on pumice, 1370-2060m. On limestone scree, 3000-3295m. On limestone, rocky slopes, rock/cliff bases, and rock crevices, 305-1770m. On narrow, steep, rocky ravines or washes, 10-1000m. On rocks, 185-200m. On rocks, 185-200m. On slopes in dry gravelly volcanic soils, 1330-2300m. One collection in California near Station Peak in the White Mtns, 2850-3200m. Open rocky slopes, 1270-2700m. Open woods, shrubby places, generally on Gaultheria shallon, 90-885m.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes Elymus scribneri Dimeresia howellii Carex parryana var. hallii Phlox muscoides	tundra thread moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort Scribner's wheat grass doublet Parry's sedge squarestem phlox	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest. Alpine boulder and rock field. Pinyon-juniper woodland. Meadows, subalpine coniferous forest. Alpine boulder and rock field, subalpine coniferous forest.	Moss growing on gravelly, damp soil, 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone. 1100-2075m. On limestone; rocky slopes, rock/cliff bases, and rock crevices. 305-1770m. On narrow, steep, rocky ravines or washes. 10-1000m. On rocks. 185-200m. On rocky slopes. 2900-4200m. On slopes in dry gravelly volcanic soils. 1330-2300m. One collection in California near Station Peak in the White Mtns. 2850-3200m. Open rocky slopes. 1270-2700m. Open woods, shrubby places, generally on Gaultheria
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes Elymus scribneri Dimeresia howellii Carex parryana var. hallii Phiox muscoides Boschniakia hookeri	undra thread moss pale peat moss pale peat moss alapine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort Scribner's wheat grass doublet Parry's sedge squarestem phlox small groundcone	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest. Alpine boulder and rock field. Pinyon-juniper woodland. Meadows, subalpine coniferous forest. Alpine boulder and rock field, subalpine coniferous forest, Great Basin scrub. North Coast coniferous forest.	Moss growing on gravelly, damp soil. 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone, rocky slopes, rock/cliff bases, and rock crevices. 305-1770m. On narrow, steep, rocky ravines or washes. 10-1000m. On rocks. 185-200m. On rocky slopes. 2900-4200m. On slopes in dry gravelly volcanic soils. 1330-2300m. One collection in California near Station Peak in the White Mtns. 2850-3200m. Open rocky slopes. 1270-2700m. Open woods, shrubby places, generally on Gaultheria shallon. 90-885m. Open, more-or-less disturbed limestone gravelly wash. 515m in California.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes Elymus scribneri Dimeresia howellii Carex parryana var. hallii Phiox muscoides Boschniakia hookeri	undra thread moss pale peat moss pale peat moss alapine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort Scribner's wheat grass doublet Parry's sedge squarestem phlox small groundcone	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest. Alpine boulder and rock field. Pinyon-juniper woodland. Meadows, subalpine coniferous forest. Alpine boulder and rock field, subalpine coniferous forest, Great Basin scrub. North Coast coniferous forest.	Moss growing on gravelly, damp soil, 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone. 1100-2075m. On limestone, rocky slopes, rock/cliff bases, and rock crevices. 305-1770m. On narrow, steep, rocky ravines or washes. 10-1000m. On rocks. 185-200m. On rocks. 185-200m. On slopes in dry gravelly volcanic soils. 1330-2300m. One collection in California near Station Peak in the White Mtns. 2850-3200m. Open rocky slopes. 1270-2700m. Open woods, shrubby places, generally on Gaultheria shallon. 90-885m. Open, more-or-less disturbed limestone gravelly wash. 515m in California. Open, slightly alkaline flats, poorly drained adobe soils. Often with Artemisia tridentata, Grayia, etc. 1000-3000m.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes Elymus scribneri Dimeresia howellii Carex parryana var. hallii Phlox muscoides Boschniakia hookeri Muhlenbergia fragilis Lomatium ravenii Chaenactis douglasii var.	undra thread moss pale peat moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort Scribner's wheat grass doublet Parry's sedge squarestem phlox small groundcone delicate muhly Raven's lomatium	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest. Alpine boulder and rock field. Pinyon-juniper woodland. Meadows, subalpine coniferous forest. Alpine boulder and rock field, subalpine coniferous forest, Great Basin scrub. North Coast coniferous forest. Pinyon-juniper woodland.	Moss growing on gravelly, damp soil. 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone scree. 3000-3295m. On limestone, rocky slopes, rock/cliff bases, and rock crevices. 305-1770m. On narrow, steep, rocky ravines or washes. 10-1000m. On rocks. 185-200m. On rocks. 185-200m. On rocky slopes. 2900-4200m. On slopes in dry gravelly volcanic soils. 1330-2300m. One collection in California near Station Peak in the White Mtns. 2850-3200m. Open rocky slopes. 1270-2700m. Open woods, shrubby places, generally on Gaultheria shallon. 90-885m. Open, more-or-less disturbed limestone gravelly wash. 515m in California. Open, slightly alkaline flats, poorty drained adobe soils. Open, slightly alkaline flats, poorty drained adobe soils. Open, subalpine to alpine gravel and crevices; grantitic
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes Elymus scribneri Dimeresia howellii Carex parryana var. hallii Phlox muscoides Boschniakia hookeri Muhlenbergia fragilis Lomatium ravenii	undra thread moss pale peat moss alpine crisp moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort Scribner's wheat grass doublet Parry's sedge squarestem phlox small groundcone delicate muhly	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest. Alpine boulder and rock field. Pinyon-juniper woodland. Meadows, subalpine coniferous forest. Alpine boulder and rock field, subalpine coniferous forest, Great Basin scrub. North Coast coniferous forest.	Moss growing on gravelly, damp soil, 2700-3000m. Moss growing on soil at lake margins, 2600-2800m. Moss on volcanic rock, 1400m in California. Often on pumice. 1370-2060m. On limestone scree, 3000-3295m. On limestone, 1100-2075m. On limestone, rocky slopes, rock/cliff bases, and rock crevices, 305-1770m. On narrow, steep, rocky ravines or washes. 10-1000m. On rocks, 185-200m. On rocks, 185-200m. On slopes in dry gravelly volcanic soils, 1330-2300m. One collection in California near Station Peak in the White Mtns, 2850-3200m. Open rocky slopes, 1270-2700m. Open woods, shrubby places, generally on Gaultheria shallon, 90-885m. Open, more-or-less disturbed limestone gravelly wash. 515m in California. Open, slightly alkaline flats, poorly drained adobe soils. Often with Artemisia tridentata, Grayia, etc. 1000-3000m.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes Elymus scribneri Dimeresia howellii Carex parryana var. hallii Phlox muscoides Boschniakia hookeri Muhlenbergia fragilis Lomatium ravenii Chaenactis douglasii var. alpina Sedum divergens	undra thread moss pale peat moss pale peat moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort Scribner's wheat grass doublet Parry's sedge squarestem phlox small groundcone delicate muhly Raven's lomatium alpine dusty maidens Cascade stonecrop	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest. Alpine boulder and rock field. Pinyon-juniper woodland. Meadows, subalpine coniferous forest. Alpine boulder and rock field, subalpine coniferous forest, Great Basin scrub. North Coast coniferous forest. Pinyon-juniper woodland. Great Basin scrub. Alpine boulder and rock fields, alpine boulder and rock fields. Pinyon-juniper woodland, Mojavean	Moss growing on gravelly, damp soil, 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone, rocky slopes, rock/cliff bases, and rock crevices. 305-1770m. On narrow, steep, rocky ravines or washes. 10-1000m. On rocks. 185-200m. On rocks. 185-200m. On rocky slopes. 2900-4200m. On slopes in dry gravelly volcanic soils. 1330-2300m. One collection in California near Station Peak in the White Mtns. 2850-3200m. Open rocky slopes. 1270-2700m. Open woods, shrubby places, generally on Gaultheria shallon. 90-885m. Open, more-or-less disturbed limestone gravelly wash. 515m in California. Open, slightly alkaline flats, poorly drained adobe soils. Often with Artemisia tridentata, Grayia, etc. 1000-3000m. Open, subgine to alpine gravel and crevices; granitic substrate. 2725-3400m. Rocky alpine slopes and cool cliffs. 1520-2000m.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes Elymus scribneri Dimeresia howellii Carex parryana var. hallii Phlox muscoides Boschniakia hookeri Muhlenbergia fragilis Lomatium ravenii Chaenactis douglasii var. alpina	undra thread moss pale peat moss alpine crisp moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort Scribner's wheat grass doublet Parry's sedge squarestem phlox small groundcone delicate muhly Raven's lomatium alpine dusty maidens	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest. Alpine boulder and rock field. Pinyon-juniper woodland. Meadows, subalpine coniferous forest. Alpine boulder and rock field, subalpine coniferous forest, Great Basin scrub. North Coast coniferous forest. Pinyon-juniper woodland. Great Basin scrub. Alpine boulder and rock field, subalpine coniferous forest, Great Basin scrub. Alpine boulder and rock fields. Alpine boulder and rock fields. Alpine boulder and rock fields.	Moss growing on gravelly, damp soil, 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone: 1100-2075m. On limestone; rocky slopes, rock/cliff bases, and rock crevices. 305-1770m. On narrow, steep, rocky ravines or washes. 10-1000m. On rocks. 185-200m. On rocky slopes. 2900-4200m. On slopes in dry gravelly volcanic soils. 1330-2300m. One collection in California near Station Peak in the White Mtns. 2850-3200m. Open mocky slopes. 1270-2700m. Open woods, shrubby places, generally on Gaultheria shallon. 90-885m. Open, more-or-less disturbed limestone gravelly wash. 515m in California. Open, slightly alkaline flats, poorty drained adobe soils. Often with Artemisia tridentata, Grayia, etc. 1000-3000m. Open, subalpine to alpine gravel and crevices; grantitc substrate. 2725-3400m.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes Elymus scribneri Dimeresia howellii Carex parryana var. hallii Phlox muscoides Boschniakia hookeri Muhlenbergia fragilis Lomatium ravenii Chaenactis douglasii var. alpina Sedum divergens	undra thread moss pale peat moss pale peat moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort Scribner's wheat grass doublet Parry's sedge squarestem phlox small groundcone delicate muhly Raven's lomatium alpine dusty maidens Cascade stonecrop	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest. Alpine boulder and rock field. Pinyon-juniper woodland. Meadows, subalpine coniferous forest. Alpine boulder and rock field, subalpine coniferous forest, Great Basin scrub. North Coast coniferous forest. Pinyon-juniper woodland. Great Basin scrub. Alpine boulder and rock fields.	Moss growing on gravelly, damp soil. 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone, rocky slopes, rock/cliff bases, and rock crevices. 305-1770m. On narrow, steep, rocky ravines or washes. 10-1000m. On rocks. 185-200m. On rocks. 185-200m. On rocky slopes. 2900-4200m. On slopes in dry gravelly volcanic soils. 1330-2300m. One collection in California near Station Peak in the White Mtns. 2850-3200m. Open rocky slopes. 1270-2700m. Open woods, shrubby places, generally on Gaultheria shallon. 90-885m. Open, more-or-less disturbed limestone gravelly wash. 515m in California. Open, slightly alkaline flats, poorly drained adobe soils. Often with Artemisia tridentata, Grayia, etc. 1000-3000m. Open, subapine to alpine gravel and crevices; granitic substrate. 2725-3400m. Rocky alpine slopes and cool cliffs. 1520-2000m. Rocky benches and alluvial fans on limestone. 480-2125m. Rocky limestone ridges. 500-2570m.
Pohlia tundrae Sphagnum strictum Tortella alpicola Carex halliana Draba lonchocarpa var. lonchocarpa Arabis pulchra var. munciensis Aliciella ripleyi Colubrina californica Asplenium trichomanes ssp. trichomanes Elymus scribneri Dimeresia howellii Carex parryana var. hallii Phlox muscoides Boschniakia hookeri Muhlenbergia fragilis Lomatium ravenii Chaenactis douglasii var. alpina Sedum divergens Blepharidachne kingii Achnatherum aridum	lundra thread moss pale peat moss pale peat moss pale peat moss alpine crisp moss Oregon sedge spear-fruited draba Darwin rock-cress Ripley's aliciella Las Animas colubrina maidenhair spleenwort Scribner's wheat grass doublet Parry's sedge squarestem phlox small groundcone delicate muhly Raven's lomatium alpine dusty maidens Cascade stonecrop King's eyelash grass	None None None None None None None None	None None None None None None None None	2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3		Alpine boulder and rock field. Subalpine coniferous forest. Cismontane woodland. Pinyon-juniper woodland, meadows. Alpine boulder and rock fields. Chenopod scrub, Mojavean desert scrub. Mojavean desert scrub. Mojavean desert scrub. Lower montane coniferous forest. Alpine boulder and rock field. Pinyon-juniper woodland. Meadows, subalpine coniferous forest. Alpine boulder and rock field, subalpine coniferous forest. North Coast coniferous forest. Pinyon-juniper woodland. Great Basin scrub. Alpine boulder and rock field, subalpine coniferous forest, Great Basin scrub. Pinyon-juniper woodland. Great Basin scrub. Alpine boulder and rock fields.	Moss growing on gravelly, damp soil. 2700-3000m. Moss growing on soil at lake margins. 2600-2800m. Moss on volcanic rock. 1400m in California. Often on pumice. 1370-2060m. On limestone scree. 3000-3295m. On limestone, rocky slopes, rock/cliff bases, and rock crevices. 305-1770m. On narrow, steep, rocky ravines or washes. 10-1000m. On rocks. 185-200m. On rocks. 185-200m. On rocky slopes. 2900-4200m. On slopes in dry gravelly volcanic soils. 1330-2300m. One collection in California near Station Peak in the White Mtns. 2850-3200m. Open rocky slopes. 1270-2700m. Open woods, shrubby places, generally on Gaultheria shallon. 90-885m. Open, more-or-less disturbed limestone gravelly wash. 515m in California. Open, slightly alkaline flats, poorty drained adobe soils. Often with Artemisia tridentata, Grayia, etc. 1000-3000m. Open, subalpine to alpine gravel and crevices; granitic substrate. 2725-3400m. Rocky alpine slopes and cool cliffs. 1520-2000m.
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		Federal listing	Calif listing		Other		
Scientific Name	Common name	status	status	CNPS List	Status	General Habitat	Micro-Habitat
						Chenopod scrub, Great Basin scrub,	
						Mojavean desert scrub, pinyon-juniper	
Penstemon utahensis	Utah beardtongue	None	None	2.3		woodland.	Rocky sites. 1065-2500m.
Leymus salinus ssp.	h-Mariata a a ha a a ha a a a a	Maria	Maria	0.0		Diament in the second second	Destar 100 0405
mojavensis	hillside wheat grass	None	None	2.3		Pinyon-juniper woodland.	Rocky sites. 1350-2135m.
Balsamorhiza serrata Romanzoffia tracyi	serrated balsamroot Tracy's romanzoffia	None None	None None	2.3		Great Basin scrub. Coastal bluff scrub, coastal scrub.	Rocky sites. 1400-1600m. Rocky sites. 15-30m.
Teucrium glandulosum	desert germander	None	None	2.3		Sonoran desert scrub.	Rocky sites. 400-500m.
reactiatif glandulosum	desert germander	None	None	2.3		Solioran desert scrub.	Nocky sites. 400-300III.
Menodora scabra	rough menodora	None	None	2.3		Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland.	Rocky soils; canyons. 1200-1800m.
	, and the second					Pinyon-juniper woodland, Great Basin	
Lomatium hendersonii	Henderson's Iomatium	None	None	2.3		scrub.	Rocky, clay soils. 1400-2440m.
Silene suksdorfii	Cascade alpine campion	None	None	2.3		Alpine boulder and rock field, subalpine coniferous forest.	Rocky, volcanic soils. 2400-3100m.
						Mojavean desert scrub, Sonoran desert	Sandy and gravelly washes in the desert; dry desert canyons.
Ayenia compacta	California ayenia	None	None	2.3		scrub.	150-1095m.
Psoralidium lanceolatum	lance-leaved scurf-pea	None	None	2.3		Great Basin scrub.	Sandy clearings in Great Basin and winter fat scrub, and, outside of California, on alluvial plains. 1220-2500m.
							Sandy or gravelly sites; also cited as often in greasewood
Eriogonum nutans var. nutans	Dugway wild buckwheat	None	None	2.3		Great Basin scrub, chenopod scrub.	scrub in flat, silty areas. 1220-3000m.
Eriogonum pyrolifolium var. pyrolifolium	pyrola-leaved buckwheat	None	None	2.3		Alpine boulder and rock field.	Sandy or gravelly sites; on pumice. 1675-3200m.
All's and a second second	Mariada antan	Maria	N			Diament in the second second	01
Allium nevadense	Nevada onion	None	None	2.3		Pinyon-juniper woodland.	Sandy or gravelly slopes in desert mountains. 1300-1700m.
Calliandra eriophylla Poa lettermanii	pink fairy-duster Letterman's blue grass	None None	None None	2.3		Sonoran desert scrub. Alpine boulder and rock field.	Sandy or rocky sites in the desert. 120-1500m. Sandy or rocky sites. 3500-4265m.
Spermolepis echinata	bristly scaleseed	None	None	2.3		Sonoran desert scrub.	Sandy or rocky sites. 3500-4265m.
Malperia tenuis	brown turbans	None	None	2.3		Sonoran desert scrub.	Sandy places and rocky slopes. 15-335m.
Camissonia boothii ssp.	Booth's hairy evening-	TTOTIC	THORIC	2.0		Great Basin scrub, pinyon-juniper	candy places and rocky slopes. To ocom.
intermedia	primrose	None	None	2.3		woodland.	Sandy sites. 1500-2150m.
	,						,
Chamaesyce parryi	Parry's spurge small-flowered sand-	None	None	2.3		Desert dunes, Mojavean desert scrub.	Sandy sites. 395-730m.
Tripterocalyx micranthus	verbena	None	None	2.3		Desert dunes, Mojavean desert scrub.	Sandy sites. 550-855m.
,	Nelson's evening-					,	,
Camissonia minor	primrose	None	None	2.3		Chenopod scrub, Great Basin scrub.	Sandy slopes, flats. 1200-1220m.
						Great Basin scrub, pinyon-juniper	
Arabis cobrensis	Masonic rock-cress	None	None	2.3		woodland.	Sandy soils. 1375-2800m.
Chamaesyce arizonica	Arizona spurge	None	None	2.3		Sonoran desert scrub.	Sandy soils. 50-300m.
Lupinus pusillus var.							
intermontanus	intermontane lupine	None	None	2.3		Great Basin scrub.	Sandy soils. 1220-1600m.
Rumex venosus	winged dock	None	None	2.3		Great Basin scrub.	Sandy substrates; broadly distributed; just barely gets into California at Honey Lake Valley. 1200-1800m.
Pyrrocoma racemosa var.	Dal Narta aumanan -	Nama	Nama	2.2		Chaparral, lower montane coniferous	Serpentine soils, from dry roadsides to damp hills; often in
congesta	Del Norte pyrrocoma	None	None	2.3		forest.	forest openings. 200-1000m.
Phacelia anelsonii	Aven Nelson's phacelia	None	None	2.3		Joshua tree woodland, pinyon and juniper woodland.	Shady places in rich soil, base of sandstone or limestone cliffs, among rocks or in washes. 1200-1575m.
Maurandya antirrhiniflora ssp.						Joshua tree woodland, Mojavean desert	-
antirrhiniflora	violet twining snapdragon	None	None	2.3		scrub.	Steep rocky carbonate slopes. 760-1525m.
Claytonia umbellata	Great Basin claytonia	None	None	2.3		Subalpine coniferous forest.	Talus slopes, stony flats, crevices. 1285(?)-3520m.
Asarum marmoratum	marbled wild-ginger	None	None	2.3		Lower montane coniferous forest.	Understory of coniferous forests. 200-1800m.
Androsace occidentalis var. simplex	simple androsace	None	None	2.3		Upper montane coniferous forest.	Usually in mesic sites. 1675-1700m.
						Lower montane coniferous forest	
Juncus dudleyi	Dudley's rush	None	None	2.3		(mesic).	Wet areas in forest. 455-2000m.