

Appendix I

Special Status Species with Potential to Occur in the Greater Monterey County Region

Source: Table 4.9-4 from EIR for Monterey County General Plan: Special-Status Plants with Potential to Occur in Monterey County

Common and Scientific Name	Status: Federal/State/CNPS	California Distribution	Habitats
Abbott's bush mallow <i>Malacothamnus abbottii</i>	SC/-/1B.1	Monterey County	Riparian scrub
Adobe sanicle <i>Sanicula maritima</i>	-/R/1B.1	Coastal Monterey and San Luis Obispo Counties. Historically known from the San Francisco Bay area: Alameda* and San Francisco* Counties	Moist clay or ultramafic soils, in meadows and grassland
Alkali milk-vetch <i>Astragalus tener</i> var. <i>tener</i>	-/-/1B.2	Southern Sacramento Valley, northern San Joaquin Valley, east San Francisco Bay Area	Grassy flats and vernal pool margins, on alkali soils, below 200'
Arroyo de la Cruz manzanita <i>Arctostaphylos cruzensis</i>	SC/-/1B.2	Coastal Monterey and San Luis Obispo Counties	Sandy soils, in coastal scrub, chaparral and oak woodland, valley and foothill grassland, below 500'
Arroyo Seco bush mallow <i>Malacothamnus palmeri</i> var. <i>lucianus</i>	SC/-/1B.2	Monterey County	Chaparral, meadows
Beach layia <i>Layia carnosa</i>	E/E/1B.1	Scattered occurrences along coastal California from Humboldt County to Santa Barbara County	Coastal dunes, coastal scrub on sandy soil
Brewer's spineflower <i>Chorizanthe breweri</i>	-/-/1B.3	South Coast Ranges, San Luis Obispo County	Rocky or gravelly areas in Sargent cypress forest, chaparral, oak woodland, coastal scrub in open areas on serpentinite soil
Bristlecone fir <i>Abies bracteata</i>	-/-/1B.3	Endemic to the Santa Lucia Range: Monterey and San Luis Obispo Counties	Lower montane coniferous forest on steep, rocky, fire-resistant slopes at 700–5,250'
Butterworth's buckwheat <i>Eriogonum butterworthianum</i>	SC/R/1B.3	Monterey County	Chaparral on sandstone
California screw-moss <i>Tortula californica</i>	-/-/1B.2	Known from Kern and Riverside Counties	Chenopod scrub, valley and foothill grassland/sandy soil, 10–100 meters
Calycadenia micrantha <i>Small-flowered calycadenia</i>	-/-1B.2	Colusa, Lake, Monterey, Napa, and Trinity Counties	Chaparral, Meadows and seeps(volcanic), Valley and foothill grassland/roadsides, rocky, talus, scree, sometimes serpentinite, sparsely vegetated areas
Caper-fruited Tropidocarpum <i>Tropidocarpum capparideum</i>	-/-/1B.1	Historically known from the northwest San Joaquin Valley and adjacent Coast Range foothills	Grasslands in alkaline hills below 1,500'
Carmel Valley bush mallow <i>Malacothamnus palmeri</i> var. <i>involutratus</i>	SC/-/1B.2	Monterey and San Luis Obispo Counties	Chaparral, oak woodland, talus hilltops and slopes, 1,200–2,200'
Carmel Valley cliff-aster	SC/-/1B.2	Monterey and Santa Barbara Counties	Rocky areas in chaparral

<i>Malacothrix saxatilis</i> var. <i>arachnoidea</i>			
Coast wallflower <i>Erysimum ammodophilum</i>	-/-/1B.2	Coastal San Mateo, Santa Cruz, and Monterey Counties	Sandy soils and openings in maritime chaparral, coastal dunes, coastal scrub
Coastal dunes milk-vetch <i>Astragalus tener</i> var. <i>titi</i>	E/E/1B.1	Central coast, southern coast, including portions of Los Angeles*, Monterey, and San Diego Counties	Sandy soils of coastal bluff scrub, coastal dunes, coastal prairie on mesic or sandy depressions near the coast
Compact cobwebby thistle <i>Cirsium occidentale</i> var. <i>compactum</i>	-/-/1B.2	San Francisco and San Luis Obispo Counties	Chaparral, coastal dunes, coastal prairie, coastal scrub
Cone Peak bedstraw <i>Galium californicum</i> ssp. <i>luciense</i>	SC/-/1B.3	Monterey County	Broadleaved upland forest, cismontane woodland, lower montane coniferous forest
Congdon's tarplant <i>Centromadia parryi</i> ssp. <i>congdonii</i> (formerly <i>Hemizonia</i>)	-/-/1B.2	East San Francisco Bay Area, Salinas Valley, Los Osos Valley	Annual grassland, on lower slopes, flats, and swales, sometimes on alkaline or saline soils, below 700'
Contra Costa goldfields <i>Lasthenia conjugens</i>	E/-/1B.1	Scattered occurrences in Coast Range valleys and southwest edge of Sacramento Valley, Alameda, Contra Costa, Mendocino, Monterey, Napa, Santa Barbara*, Santa Clara*, and Solano Counties.	Alkaline or saline vernal pools and swales, below 700'
Cook's Tritoleia <i>Triteleia ixioides</i> ssp. <i>cookii</i>	-/-/1B.3	San Luis Obispo County	Closed-cone coniferous forest, cismontane woodland, on serpentinite seeps
Davidson's bush mallow <i>Malacothamnus davidsonii</i>	-/-/1B.2	Los Angeles, Monterey, and San Luis Obispo Counties	Coastal scrub, chaparral, and riparian woodland in sandy washes, 900–2,800'
Delicate bluecup <i>Githopsis tenella</i>	1B.1	Kern, Monterey, and Tulare Counties	Chaparral, Cismontane woodland/mesic
Dudley's lousewort <i>Pedicularis dudleyi</i>	-/R/1B.2	Monterey, Santa Cruz*, San Luis Obispo, and San Mateo Counties	Maritime chaparral, North Coast coniferous forest, valley and foothill grassland
Dwarf Calycadenia <i>Calycadenia villosa</i>	-/-/1B.1	Known from 20 occurrences in interior foothills of South Coast Ranges, in San Luis Obispo and Monterey Counties. Historically in Kern County	Rocky sites in chaparral, oak woodland, juniper woodland, grasslands, open dry flats and hillsides, and alluvial fans, below 4,200'
Eastwood's buckwheat <i>Eriogonum eastwoodianum</i>	-/-/1B.3	Fresno and Monterey Counties	Sandy or clay soils in cismontane woodland
Eastwood's goldenbush <i>Ericameria fasciculata</i>	SC/-/1B.1	Monterey County	Sandy soils and openings in closed-cone coniferous forest, maritime chaparral, coastal dunes, coastal scrub
Fragrant fritillary <i>Fritillaria liliacea</i>	-/-/1B.2	Coast Ranges from Marin County to San Benito County	Adobe soils of interior foothills, coastal prairie, coastal scrub, annual grassland, often on serpentinite, below 1,350'
Gabilan Mountains manzanita <i>Arctostaphylos gabilanensis</i>	-/-/1B.2	Monterey and San Benito Counties	Chaparral, Cismontane woodland/granitic
Gowen cypress <i>Cupressus goveniana</i> ssp. <i>goveniana</i>	T/-/1B.2	Monterey County	Closed-cone coniferous forest, maritime chaparral
Hall's tarplant	-/-/1B.1	Interior foothills of South Coast Ranges, in San	Oak woodland, grassland; in clay soil on flood

<i>Deinandra halliana</i>		Benito, Monterey, and San Luis Obispo counties	plains
Hardham's bedstraw <i>Galium hardhamiae</i>	-/-/1B.3	Monterey and San Luis Obispo Counties	Closed-cone coniferous forest on serpentinite substrate
Hardham's evening-primrose <i>Camissonia hardhamiae</i>	SC/-/1B.2	South coast ranges, Monterey and San Luis Obispo Counties	Chaparral, oak woodland on decomposed carbonate substrate
Hickman's checkerbloom <i>Sidalcea hickmanii</i> ssp. <i>Hickmanii</i>	-/-/1B.3	Monterey County	Chaparral
Hickman's cinquefoil <i>Potentilla hickmanii</i>	E/E/1B.1	Monterey, San Mateo, and Sonoma* Counties	Freshwater marshes, seeps, and small streams in open areas in coastal scrub or coniferous forest
Hickman's onion <i>Allium hickmanii</i>	SC/-/1B.2	Central coast: Monterey and San Luis Obispo Counties, especially Monterey Peninsula and Arroyo de la Cruz.	Closed-cone coniferous forest, maritime chaparral, coastal prairie, coastal scrub, valley and foothill grassland, generally +/- 150'
Hooked popcorn-flower <i>Plagiobothrys uncinatus</i>	-/-/1B.2	Monterey, San Benito, Santa Clara, and San Luis Obispo Counties	Chaparral, cismontane woodland, valley and foothill grassland, in sandy areas
Hooker's Manzanita <i>Arctostaphylos hookeri</i> ssp. <i>hookeri</i>	-/-/1B.2	Central coast, western San Francisco Bay region, Santa Cruz mountains and south to Carmel. Monterey and Santa Cruz Counties	Closed-cone coniferous forest, chaparral, cismontane woodland, coastal scrub on sandy substrate
Hutchinson's larkspur <i>Delphinium hutchinsoniae</i>	SC/-/1B.2	Monterey County	Broadleaved upland forest, chaparral, coastal prairie, coastal scrub
Indian Valley bush mallow <i>Malacothamnus aboriginum</i>	-/-/1B.2	Inner South Coast Ranges: San Benito, Fresno, and Monterey Counties	Rocky areas in chaparral and oak woodland, often in burned areas
Indian Valley spineflower <i>Aristocapsa insignis</i>	-/-/4 B.2	Inner south Coast Range, Monterey and San Luis Obispo Counties	Cismontane woodland on sandy substrate
Jolon clarkia <i>Clarkia jolonensis</i>	-/-/1B.2	Northern outer south coast ranges, Monterey County	Cismontane woodland
Kellman's bristle-moss <i>Orthotrichum kellmanii</i>	-/-/1B.2	Monterey, Santa Cruz, and San Mateo Counties	Chaparral, Cismontane woodland/sandstone, carbonate
Kellogg's Horkelia <i>Horkelia cuneata</i> ssp. <i>Sericea</i>	SC/-/1B.1	Coastal California from Marin to Santa Barbara Counties	Openings in closed-cone coniferous forest, coastal scrub, maritime chaparral, on sandy or gravelly soils
Late-flowered mariposa lily <i>Calochortus weedii</i> var. <i>vestus</i>	SC/-/1B.2	Outer south Coast Ranges, Western Transverse Range, Monterey, Santa Barbara, San Luis Obispo, and Ventura Counties	Chaparral, cismontane woodland, often on serpentinite
Lemmon's jewelflower <i>Caulanthus coulteri</i> var. <i>lemmonii</i>	-/-/1B.2	Southeast San Francisco Bay Area, south through the South Coast Ranges and adjacent San Joaquin Valley	Dry exposed slopes in grasslands and pinyon-juniper woodland, between 260-4,000 feet; blooms March-May
Little Sur Manzanita <i>Arctostaphylos edmundsii</i>	SC/-/1B.2	Central coast, Monterey County	Coastal bluff scrub, chaparral on sandy substrate
Maple-leaved checkerbloom <i>Sidalcea malachroides</i>	-/-/1B.3	North Coast and northern Central Coast: from Humboldt to Monterey County	Openings in coastal scrub, perennial grassland, Redwood forest, Douglas-fir forest, often in

			disturbed areas, 5–2,300'
Marsh microseris <i>Microseris paludosa</i>	--/1B.2	Coastal California from Mendocino County to San Luis Obispo County	Grassland, coastal scrub, closed–cone–coniferous forest, cismontane woodland
Mason neststraw <i>Stylocline masonii</i>	--/1B.1	Scattered locations from Monterey County to Los Angeles County	Chenopod scrub, pinyon–juniper woodland, in sandy washes, 300–3,900'
Menzies's wallflower <i>Erysimum menziesii</i> ssp. <i>Menziesii</i>	E/E/1B.1	North and Central coast: Fort Bragg, Monterey Bay, and Point Pinos areas in Mendocino and Monterey Counties	Localized on coastal dunes, on coastal strand areas in coastal scrub below 115'
Monterey clover <i>Trifolium trichocalyx</i>	E/E/1B.1	Monterey County	Closed–cone coniferous forest, openings, burned areas
Monterey cypress <i>Cupressus macrocarpa</i>	SC/--/1B.2	Monterey County	Closed–cone coniferous forest
Monterey Manzanita <i>Arctostaphylos montereyensis</i>	SC/--/1B.2	Central coast, Fort Ord, northern outer south Coast Range, Toro Mountain, northwestern Monterey County	Maritime chaparral, cismontane woodland, coastal scrub, sandy soils
Monterey pine <i>Pinus radiata</i>	SC/--/1B.1	Monterey, Santa Cruz, San Luis Obispo, and San Mateo Counties, Baja California, Guadalupe Island (Mexico)	Closed–cone coniferous forest, cismontane woodland
Monterey spineflower <i>Chorizanthe pungens</i>	T/--/1B.2	Monterey and Santa Cruz Counties	Coastal dunes
Moss (Norris' Beard–moss) <i>Didymodon norrisii</i>	--/2.2	Humboldt, Lake, Madera, and Tuolumne Counties	Cismontane woodland, lower montane coniferous forest/ intermittently mesic, rock, 600–1700 meters
Most beautiful jewel–flower <i>Streptanthus albidus</i> ssp. <i>peramoenus</i>	--/1B.2	Eastern San Francisco Bay area, Central south coastal outer ranges. Alameda, Contra Costa, Monterey, and Santa Clara Counties	Chaparral, annual grassland, on ridges and slopes on serpentinite outcrops, 450–3,200'
Muir's tarplant <i>Carlquistia muirii</i>	--/1B.3	Fresno, Kern, Monterey, and Tulare Counties	Chaparral (montane), lower montane coniferous forest, upper montane coniferous forest.
Napa false indigo <i>Amorpha californica</i> var. <i>napensis</i>	--/1B.2	Monterey, Marin, Napa, and Sonoma Counties	Openings in broadleaved upland forest, cismontane woodland, chaparral, between 500–6,580 feet
Oval–leaved snapdragon <i>Antirrhinum ovatum</i>	--/4.2	Inner Coast Ranges from San Benito County to Kern and Ventura Counties	Clay or gypsum substrates (often alkaline) in chaparral, cismontane woodland, pinyon–juniper woodland, valley and foothill grassland, between 650–3,300'
Pacific Grove clover <i>Trifolium polyodon</i>	--/R/1B.1	Monterey County	Closed–cone coniferous forest, coastal prairie, meadows, valley and foothill grassland, in mesic areas
Pajaro Manzanita <i>Arctostaphylos pajaroensis</i>	--/1B.1	Pajaro Hills, Monterey County	Chaparral, in sandy areas
Pale–yellow layia	SC/--/1B.1	Ranges, Transverse Ranges, and Tehachapi	Cismontane woodland, pinyon– juniper

<i>Layia heterotricha</i>		mountains: Fresno, Kings*, Kern*, Monterey*, Santa Barbara, San Luis Obispo*, Ventura, and possibly San Benito Counties	woodland, grassland in open areas on alkaline or clay soils, below 5,250'
Palmer's Monardella <i>Monardella palmeri</i>	-/-/1B.2	Monterey and San Luis Obispo Counties	Chaparral, cismontane woodland on serpentinite
Pine rose <i>Rosa pinetorum</i>	-/-/1B.2	Monterey and San Mateo Counties	Closed-cone coniferous forest, up to 985'
Pinnacles buckwheat <i>Eriogonum nortonii</i>	-/-/1B.3	Monterey and San Benito Counties	Sandy soils in chaparral, valley and foothill grassland; often on recent burns
Prostrate navarettia <i>Navarretia prostrata</i>	-/-/1B.1	Western San Joaquin Valley, interior South Coast Ranges, central South Coast, Peninsular Ranges: Los Angeles, Merced, Monterey, Orange, Riverside, San Bernardino, and San Diego Counties	Vernal pools and mesic areas in coastal scrub and alkali grasslands
Purple amole <i>Chlorogalum purpureum</i> var. <i>purpureum</i>	T/-/1B.1	Northeastern outer south Coast Ranges, eastern Santa Lucia Mountains, Monterey County	Cismontane woodland, valley and foothill Grassland
Rayless ragwort <i>Senecio aphanactis</i>	-/-/2.2	Scattered locations in central western and southwestern California, from Alameda County to San Diego County	Oak woodland, coastal scrub, open sandy or rocky areas, on alkaline soils; 15-800 meters
Recurved larkspur <i>Delphinium recurvatum</i>	-/-/1B.2	San Joaquin Valley and central valley of the South Coast Ranges, Contra Costa County to Kern County	Subalkaline soils in annual grassland, saltbush scrub, cismontane woodland, and vernal pools
Robust spineflower <i>Chorizanthe robusta</i> var. <i>robusta</i>	E/-/1B.1	Coastal central California, from San Mateo to Monterey County	Coastal bluff scrub, coastal dunes openings in cismontane woodland, on sandy soil
Saline clover <i>Trifolium depauperatum</i> var. <i>hydrophilum</i>	-/-/1B.2	Sacramento Valley, central western California	Salt marsh, mesic alkaline areas in grasslands, vernal pools
San Antonio collinsia <i>Collinsia antonina</i>	-/-/1B.2	Monterey County	Chaparral, Cismontane woodland
San Benito fritillary <i>Fritillaria viridea</i>	-/-/1B.2	Central Coast Ranges in San Benito, Monterey, and San Luis Obispo counties	Serpentinite outcrops, on slopes, in chaparral, 650-5,000'
San Francisco collinsia <i>Collinsia multicolor</i>	-/-/1B.2	Coastal California from San Francisco to Monterey County	Closed-cone coniferous forest, coastal scrub
San Luis Obispo sedge <i>Carex obispoensis</i>	-/-/1B.2	Outer South Coast Ranges in San Luis Obispo County	Sargent cypress forest, chaparral, coastal prairie, coastal scrub, valley and foothill grassland; often on serpentinite seeps
San Simeon Baccharis <i>Baccharis plummerae</i> ssp. <i>Glabrata</i>	-/-/1B.2	Central coast, San Luis Obispo County	Coastal scrub
Sand gilia <i>Gilia tenuiflora</i> ssp. <i>Arenaria</i>	E/T/1B.2	Monterey County	Sandy soils in maritime chaparral, cismontane woodland, coastal dunes, coastal scrub
Sandmat manzanita <i>Arctostaphylos pumila</i>	SC/-/1B.2	Central coast, especially Monterey Bay, Monterey County	Openings in closed-cone coniferous forest, maritime chaparral, cismontane woodland,

			coastal dunes, and coastal scrub, in sandy areas
Santa Cruz clover <i>Trifolium buckwestiorum</i>	-/-/1B.1	San Francisco Bay area and central coastal California, Endemic to Santa Cruz County, also known from Monterey and Sonoma Counties	Moist grassy areas on margins of broadleaved upland forest, cismontane woodland, and coastal prairie, sometimes in disturbed areas, 200–1,800'
Santa Cruz Microseris <i>Stebbinsoseris decipiens</i>	-/-/1B.2	Coastal California: scattered occurrences from Marin County to Monterey County	Grasslands, coastal prairie, and open grassy areas in other habitat types
Santa Cruz tarplant <i>Holocarpha macradenia</i>	T/E/1B.1	Coastal slope of the Santa Cruz Mountains, Monterey and Santa Cruz Counties	Coastal terrace grasslands on light sandy to sandy clay soils, below 300 feet
Santa Lucia bedstraw <i>Galium clementis</i>	-/-/1B.3	Monterey County	Lower and upper montane coniferous forest on granitic or serpentinite, rocky substrates
Santa Lucia bush mallow <i>Malacothamnus palmeri</i> var. <i>palmeri</i>	-/-/1B.2	San Luis Obispo and possibly Monterey Counties	Rocky places in chaparral
Santa Lucia mint <i>Pogogyne clareana</i>	-/E/1B.2	Monterey County	Riparian woodland
Seaside bird's-beak <i>Cordylanthus rigidus</i> ssp. <i>Littoralis</i>	SC/E/1B.1	Central and southern central coast, Monterey and Santa Barbara Counties	Closed-cone coniferous forest, maritime chaparral, cismontane woodland, coastal dunes, coastal scrub; on sandy soils, often disturbed sites
Shining Navarretia <i>Navarretia nigelliformis</i> ssp. <i>Radians</i>	-/-/1B.2	Interior foothills of South Coast Ranges from Merced County to San Luis Obispo County	Mesic areas with heavy clay soils, in swales and clay flats; in oak woodland, grassland
Showy madia <i>Madia radiata</i>	-/-/1B.1	Scattered populations in the interior foothills of the south Coast Ranges: Contra Costa, Fresno, Kings, Kern, Monterey, Santa Barbara, San Benito, San Joaquin, and San Luis Obispo Counties	Oak woodland, grassland, slopes below 3,000'
Slender Pentachaeta <i>Pentachaeta exilis</i> ssp. <i>Aeolica</i>	SC-/1B.2	Monterey and San Benito Counties	Cismontane woodland, valley and foothill grassland
Straight-awned spineflower <i>Chorizanthe rectispina</i>	-/-/1B.3	Outer south coast ranges: Monterey, Santa Barbara, and San Luis Obispo Counties	Chaparral, coastal scrub, oak woodland; often on granitic soils, between 1,165–3,400 feet
Talus fritillary <i>Fritillaria falcate</i>	-/-/1B.2	South inner coast ranges. Alameda, Monterey, San Benito, Santa Clara, and Stanislaus Counties	Chaparral, oak woodland, closed-cone coniferous forest, on serpentinite talus
Tear Drop moss <i>Dacryophyllum falcifolium</i>	-/-/1B.3	Monterey, Santa Cruz	North Coast coniferous forest/carbonate
Temblor buckwheat <i>Eriogonum temblorense</i>	SC-/1B.2	Kern, Monterey, and San Luis Obispo Counties	Valley and foothill grassland on clay or sandstone substrate
Tidestrom's lupine <i>Lupinus tidestromii</i>	E/E/1B.1	Coastal Monterey, Marin, and Sonoma Counties	Coastal dunes, coastal dune scrub
Umbrella larkspur <i>Delphinium umbraculorum</i>	-/-/1B.3	Monterey, Santa Barbara, San Luis Obispo, and Ventura Counties	Moist areas in cismontane woodland
Yadon's rein orchid <i>Piperia yadonii</i>	E-/1B.1	Monterey County	Coastal bluff scrub, closed-cone coniferous forest, maritime chaparral, on sandy soils

Yadon’s wallflower <i>Erysimum menziesii</i> ssp. <i>Yadonii</i>	E/E/1B.1	Monterey County	Coastal dunes
Yellow-flowered Eriastrum <i>Eriastrum luteum</i>	-/-/1B.2	Monterey and San Luis Obispo Counties	Broadleaved upland forest, chaparral, cismontane woodland

Note: For the purposes of the EIR, CEQA-defined special-status species are defined to include both listed and non-listed species that are candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFG or USFWS or that otherwise meet the definitions of rare or endangered under CEQA based on substantial evidence.

Status explanations:

Federal

- E = listed as endangered under the federal Endangered Species Act.
- T = listed as threatened under the federal Endangered Species Act.
- SC = considered a species of concern by the Fish and Wildlife Service
- = no listing.

State

- E = listed as endangered under the California Endangered Species Act.
- T = listed as threatened under the California Endangered Species Act.
- R = listed as rare under the California Endangered Species Act.
- = no listing.

California Native Plant Society (CNPS)

- 1B = List 1B species: rare, threatened, or endangered in California and elsewhere.
- 2 = List 2 species: rare, threatened, or endangered in California but more common elsewhere.
- 3 = List 3 species: more information is needed for this plant.
- = no listing.
 - .1 = seriously endangered in California
 - .2 = fairly endangered in California
 - .3 = not very endangered in California

* Populations uncertain or extirpated in the county indicated