

Appendix E

Biological Resources

TABLE 1
POTENTIALLY OCCURRING SPECIAL-STATUS PLANT SPECIES AND COMMUNITIES/HABITATS

Common Name	Scientific Name	Status (Federal/State/CNPS State Rank)	Habitat	Blooming Period	Potential to Occur within the Study Area
PLANTS					
red sand-verbena	<i>Abronia maritima</i>	None/None/4.2	Coastal dunes	February–November	None. No suitable habitat is present within the site. No coastal bluff scrub or dunes observed within the project area.
aphanisma	<i>Aphanisma blitoides</i>	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub	February–June	None. No suitable habitat is present within the site. No coastal bluff scrub or dunes observed within the project area.
marsh sandwort	<i>Arenaria paludicola</i>	FE/CE/1B.1	Marshes and swamps (freshwater or brackish)	May–August	None. No suitable habitat is present within the site. No marshes or swamps observed within the project area.
Braunton's milk-vetch	<i>Astragalus brauntonii</i>	FE/None/1B.1	Chaparral, Coastal scrub, Valley and foothill grassland	January–August	Low. Marginal habitat for this species occurs within the project area but is highly disturbed.
Ventura marsh milk-vetch	<i>Astragalus pycnostachyus</i> var. <i>lanosissimus</i>	FE/CE/1B.1	Coastal dunes, Coastal scrub, Marshes and swamps (edges, coastal salt or brackish)	(June)August–October	Low. Marginal habitat for this species occurs within the project area but is highly disturbed and dominated with ruderal species.
coastal dunes milk-vetch	<i>Astragalus tener</i> var. <i>titi</i>	FE/CE/1B.1	Coastal bluff scrub (sandy), Coastal dunes, Coastal prairie (mesic)	March–May	None. No suitable habitat is present within the site. No coastal bluffs, dunes, or prairies present within the project boundary.
Coulter's saltbush	<i>Atriplex coulteri</i>	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland	March–October	Low. Marginal habitat for this species occurs within the project area but is highly disturbed.
South Coast saltscale	<i>Atriplex pacifica</i>	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Playas	March–October	Low. Marginal habitat for this species occurs within the project area but is highly disturbed.
Parish's brittlescale	<i>Atriplex parishii</i>	None/None/1B.1	Chenopod scrub, Playas, Vernal pools	June–October	None. No suitable habitat is present within the site. No chenopod scrub, playas, or vernal pools present within the project boundary.
Davidson's saltscale	<i>Atriplex serenana</i> var. <i>davidsonii</i>	None/None/1B.2	Coastal bluff scrub, Coastal scrub	April–October	None. No suitable habitat is present within the site. No coastal bluff scrub or coastal scrub present within the project boundary.
Nevin's barberry	<i>Berberis nevinii</i>	FE/CE/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub	March–June	None. No suitable habitat is present within the site. No chaparral, cismontane woodland, riparian scrub or coastal scrub present within the project boundary.
Catalina mariposa lily	<i>Calochortus catalinae</i>	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland	(February)March–June	Low. Marginal habitat for this species occurs within the project area but is highly disturbed.

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Plummer's mariposa lily	<i>Calochortus plummerae</i>	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland	May–July	Low. Marginal habitat for this species occurs within the project area but is highly disturbed.
lucky morning-glory	<i>Calystegia felix</i>	None/None/1B.1	Meadows and seeps (sometimes alkaline), Riparian scrub (alluvial)	March–September	None. No suitable habitat is present within the site. This project site is lacking the necessary meadows and seeps associated with this species.
Peirson's morning-glory	<i>Calystegia peirsonii</i>	None/None/4.2	Chaparral, Chenopod scrub, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland	April–June	Low. Marginal habitat for this species occurs within the project area but is highly disturbed.
Lewis' evening-primrose	<i>Camissoniopsis lewisii</i>	None/None/3	Coastal bluff scrub, Cismontane woodland, Coastal dunes, Coastal scrub, Valley and foothill grassland	March–May(June)	Low. Marginal habitat for this species occurs within the project area but is highly disturbed.
southern tarplant	<i>Centromadia parryi</i> ssp. <i>australis</i>	None/None/1B.1	Marshes and swamps (margins), Valley and foothill grassland (vernally mesic), Vernal pools	May–November	Low. Marginal habitat for this species occurs within the project area but is highly disturbed.
smooth tarplant	<i>Centromadia pungens</i> ssp. <i>laevis</i>	None/None/1B.1	Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland	April–September	None. No suitable habitat is present within the site. This project site is lacking the necessary meadows and seeps associated with this species.
Orcutt's pincushion	<i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i>	None/None/1B.1	Coastal bluff scrub (sandy), Coastal dunes	January–August	None. No suitable habitat is present within the site. No coastal bluffs or dunes present within the project boundary.
coastal goosefoot	<i>Chenopodium littoreum</i>	None/None/1B.2	Coastal dunes	April–August	None. No suitable habitat is present within the site. No coastal dunes present within the project boundary..
salt marsh bird's-beak	<i>Chloropyron maritimum</i> ssp. <i>maritimum</i>	FE/CE/1B.2	Coastal dunes, Marshes and swamps (coastal salt)	May–October(November)	None. No suitable habitat is present within the site. No coastal dunes, marshes or swamps present within the study area.
San Fernando Valley spineflower	<i>Chorizanthe parryi</i> var. <i>fernandina</i>	FC/CE/1B.1	Coastal scrub (sandy), Valley and foothill grassland	April–July	Low. This species often occurs within undisturbed coastal scrub areas within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal.

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seaside cistanthe	<i>Cistanthe maritima</i>	None/None/4.2	Coastal bluff scrub, Coastal scrub, Valley and foothill grassland	(February)March–June(August)	Low. This species often occurs within undisturbed coastal scrub areas within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal.
monkey-flower savory	<i>Clinopodium mimuloides</i>	None/None/4.2	Chaparral, North Coast coniferous forest	June–October	None. No suitable habitat is present within the site. No Chaparral or coniferous forests are present within the project boundary.
small-flowered morning-glory	<i>Convolvulus simulans</i>	None/None/4.2	Chaparral (openings), Coastal scrub, Valley and foothill grassland	March–July	None. No suitable habitat is present within the site. No coastal dunes, marshes or swamps present within the study area.
paniculate tarplant	<i>Deinandra paniculata</i>	None/None/4.2	Coastal scrub, Valley and foothill grassland, Vernal pools	(March)April–November	Low. This species often occurs within undisturbed coastal scrub areas within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal.
western dichondra	<i>Dichondra occidentalis</i>	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland	(January)March–July	Low. This species often occurs within undisturbed coastal scrub areas within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal.
beach spectaclepod	<i>Dithyrea maritima</i>	None/CT/1B.1	Coastal dunes, Coastal scrub (sandy)	March–May	Low. This species often occurs within undisturbed coastal scrub areas within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal.
many-stemmed dudleya	<i>Dudleya multicaulis</i>	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland	April–July	Low. This species often occurs within undisturbed coastal scrub areas within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal.
island green dudleya	<i>Dudleya vires ssp. insularis</i>	None/None/1B.2	Coastal bluff scrub, Coastal scrub	April–June	Low. This species often occurs within undisturbed coastal scrub areas within its

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San Diego button-celery	<i>Eryngium aristulatum</i> var. <i>parishii</i>	FE/CE/1B.1	Coastal scrub, Valley and foothill grassland, Vernal pools	April–June	preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal. Low. This species often occurs within undisturbed vernal areas within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal.
suffrutescent wallflower	<i>Erysimum</i> <i>suffrutescens</i>	None/None/4.2	Coastal bluff scrub, Chaparral (maritime), Coastal dunes, Coastal scrub	January–July(August)	None. No suitable habitat is present within the site. No coastal bluff scrub, Chaparral, dunes or scrub present within the study area.
Los Angeles sunflower	<i>Helianthus nuttallii</i> ssp. <i>parishii</i>	None/None/1A	Marshes and swamps (coastal salt and freshwater)	August–October	None. No suitable habitat is present within the site. No marshes or swamps present within the study area. This species is considered extinct.
vernal barley	<i>Hordeum intercedens</i>	None/None/3.2	Coastal dunes, Coastal scrub, Valley and foothill grassland (saline flats and depressions), Vernal pools	March–June	Low. This species often occurs within undisturbed vernal areas within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal..
mesa horkelia	<i>Horkelia cuneata</i> var. <i>puberula</i>	None/None/1B.1	Chaparral (maritime), Cismontane woodland, Coastal scrub	February–July(September)	None. No suitable habitat is present within the site. No Chaparral, woodland, or coastal scrub is present within the study area. .
decumbent goldenbush	<i>Isocoma menziesii</i> var. <i>decumbens</i>	None/None/1B.2	Chaparral, Coastal scrub (sandy, often in disturbed areas)	April–November	None. No suitable habitat is present within the site. No Chaparral, riparian woodland, or coastal scrub is present within the study area.
Southern California black walnut	<i>Juglans californica</i>	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland	March–August	None. No suitable habitat is present within the site. No Chaparral, riparian woodland, or coastal scrub is present within the study area.
southwestern spiny rush	<i>Juncus acutus</i> ssp. <i>leopoldii</i>	None/None/4.2	Coastal dunes (mesic), Meadows and seeps (alkaline seeps), Marshes and swamps (coastal salt)	(March)May–June	None. No suitable habitat is present within the site. No coastal dunes, meadows, seeps, or vernal pools are present within the study area.

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Coulter's goldfields	<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	None/None/1B.1	Marshes and swamps (coastal salt), Playas, Vernal pools	February–June	None. No suitable habitat is present within the site. No coastal dunes, meadows, seeps, or vernal pools are present within the study area.
Robinson's pepper-grass	<i>Lepidium virginicum</i> var. <i>robinsonii</i>	None/None/4.3	Chaparral, Coastal scrub	January–July	None. No suitable habitat is present within the site. No Chaparral or coastal scrub is present within the study area.
sea dahlia	<i>Leptosyne maritima</i>	None/None/2B.2	Coastal bluff scrub, Coastal scrub	March–May	None. No suitable habitat is present within the site. No coastal bluff scrub or coastal scrub is present within the study area.
Santa Catalina Island desert-thorn	<i>Lycium brevipes</i> var. <i>hassei</i>	None/None/3.1	Coastal bluff scrub, Coastal scrub	June(August)	None. No suitable habitat is present within the site. No coastal bluff scrub or coastal scrub is present within the study area.
mud nama	<i>Nama stenocarpa</i>	None/None/2B.2	Marshes and swamps (lake margins, riverbanks)	January–July	None. No suitable habitat is present within the site. No marshes or swamps are present within the study area.
Gambel's water cress	<i>Nasturtium gambelii</i>	FE/CT/1B.1	Marshes and swamps (freshwater or brackish)	April–October	None. No suitable habitat is present within the site. No marshes or swamps are present within the study area.
spreading navarretia	<i>Navarretia fossalis</i>	FT/None/1B.1	Chenopod scrub, Marshes and swamps (assorted shallow freshwater), Playas, Vernal pools	April–June	None. No suitable habitat is present within the site. No marshes or swamps are present within the study area.
prostrate vernal pool navarretia	<i>Navarretia prostrata</i>	None/None/1B.1	Coastal scrub, Meadows and seeps, Valley and foothill grassland (alkaline), Vernal pools	April–July	Low. This species often occurs within undisturbed vernal areas within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal.
coast woolly-heads	<i>Nemacaulis denudata</i> var. <i>denudata</i>	None/None/1B.2	Coastal dunes	April–September	None. No suitable habitat is present within the site. No coastal dunes are present within the study area.
California Orcutt grass	<i>Orcuttia californica</i>	FE/CE/1B.1	Vernal pools	April–August	None. No suitable habitat is present within the site. No vernal pools are present within the study area.
Lyon's pentachaeta	<i>Pentachaeta lyonii</i>	FE/CE/1B.1	Chaparral (openings), Coastal scrub, Valley and foothill grassland	(February)March–August	Low. This species often occurs within undisturbed Chaparral openings within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal.

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Hubby's phacelia	<i>Phacelia hubbyi</i>	None/None/4.2	Chaparral, Coastal scrub, Valley and foothill grassland	April–July	Low. This species often occurs within undisturbed Chaparral openings within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal.
south coast branching phacelia	<i>Phacelia ramosissima</i> <i>var. austrolitoralis</i>	None/None/3.2	Chaparral, Coastal dunes, Coastal scrub, Marshes and swamps (coastal salt)	March–August	Low. This species often occurs within undisturbed Chaparral openings within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this species within the study area is considered marginal.
Brand's star phacelia	<i>Phacelia stellaris</i>	None/None/1B.1	Coastal dunes, Coastal scrub	March–June	None. No suitable habitat is present within the site. No coastal dunes or scrub is present within the project boundary.
Ballona cinquefoil	<i>Potentilla multijuga</i>	None/None/1A	Meadows and seeps (brackish)	June–August	None. No suitable habitat is present within the site. No meadows or seeps are present within the project boundary.
white rabbit-tobacco	<i>Pseudognaphalium</i> <i>leucocephalum</i>	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland	(July)August– November(December)	None. No suitable habitat is present within the site. This species is often associated with alluvial flood plains that do not occur within the study area.
Nuttall's scrub oak	<i>Quercus dumosa</i>	None/None/1B.1	Closed-cone coniferous forest, Chaparral, Coastal scrub	February–April(May–August)	None. No suitable habitat is present within the site. No forest, Chaparral, or costal scrub are present within the study area.
salt spring checkerbloom	<i>Sidalcea</i> <i>neomexicana</i>	None/None/2B.2	Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Playas	March–June	None. No suitable habitat is present within the site. No forest, Chaparral, desert scrub, playas or costal scrub are present within the study area.
estuary seablite	<i>Suaeda esteroa</i>	None/None/1B.2	Marshes and swamps (coastal salt)	(May)July–October(January)	None. No suitable habitat is present within the site. No coastal marshes or swamps are present within the study area.
woolly seablite	<i>Suaeda taxifolia</i>	None/None/4.2	Coastal bluff scrub, Coastal dunes, Marshes and swamps (margins of coastal salt)	January–December	None. No suitable habitat is present within the site. No coastal bluff scrub, dunes, coastal marshes or swamps are present within the study area.
San Bernardino aster	<i>Symphytotrichum</i> <i>defoliatum</i>	None/None/1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Meadows and seeps, Marshes and swamps, Valley	July–November	Low. This species often occurs within undisturbed alkali seeps or meadows within its preferred habitat. The grassland habitat within the study area is considered highly disturbed; therefore, habitat for this

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Greata's aster	<i>Symphyotrichum greatae</i>	None/None/1B.3	and foothill grassland (vernally mesic) Broad-leaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Riparian woodland	June–October	species within the study area is considered marginal. None. No suitable habitat is present within the site. No forests, Chaparral, or riparian woodlands are present within the study area.
SENSITIVE NATURAL COMMUNITIES AND HABITATS					
California Walnut Woodland	N/A	None/None/S2.1	N/A	N/A	Absent. This habitat does not occur within the study area.
Southern Coast Live Oak Riparian Forest	N/A	None/None/S4	N/A	N/A	Absent. This habitat does not occur within the study area
Southern Coastal Bluff Scrub	N/A	None/None/S1.1	N/A	N/A	Absent. This habitat does not occur within the study area
Southern Dune Scrub	N/A	None/None/S1.1	N/A	N/A	Absent. This habitat does not occur within the study area
Southern Sycamore Alder Riparian Woodland	N/A	None/None/S4	N/A	N/A	Absent. This habitat does not occur within the study area
Walnut forest	N/A	None/None/S1.1	N/A	N/A	Absent. This habitat does not occur within the study area.

STATUS:

Federal - FE – federally endangered, FT – federally threatened

State - SE – State endangered, State Rank S2 – Imperiled in the state because of rarity due to a very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it especially vulnerable to extirpation from the state, State Rank S3 – Vulnerable in the state due to a restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state, SNR – State conservation rank not yet assessed.; California Native Plant Society (CNPS) Rare Plant Ranks 1B – Plants rare, threatened or endangered in California and elsewhere, 2B – Plants rare, threatened or endangered in California, but more common elsewhere, and 4 – Plants of limited distribution; CNPS Threat Ranks 0.1 – Seriously threatened in California (over 80% of occurrences threatened/high degree and immediacy of threat, 0.2 – Moderately threatened in California (20-80% of occurrences threatened/moderate degree and immediacy of threat), and 0.3 – Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat or no current threats known;

TABLE 2
POTENTIALLY OCCURRING SENSITIVE WILDLIFE SPECIES

Common Name	Scientific Name	Status (Federal/State/CNDDB)	Habitat	Potential to Occur in Study Area
Birds				
tricolored blackbird	<i>Agelaius tricolor</i>	None/SSC,Candidate/None	Freshwater marsh, swamp, wetlands.	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest observation of this species is at Harbor Lake within the San Pedro area in 1993 (CNDDB).
southern California rufous-crowned sparrow	<i>Aimophila ruficeps canescens</i>	None/ None/WL	Chaparral, Coastal Scrub.	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest observation of this species is on the east side of Highway 101 in Hollywood in 2014 (CNDDB)
burrowing owl	<i>Athene cunicularia</i>	None/SSC/WL	Open, dry annual or perennial grasslands, deserts and scrublands characterized by low-growing vegetation	Low. Suitable open grassland habitat is present onsite; however, this species is generally associated with larger, more open foraging habitat. No suitable burrows were observed onsite during the survey. The nearest observation of this species is within the Ballona Wetlands in 2011
Swainson's hawk	<i>Buteo swainsoni</i>	None/FT, SSC/None	Great Basin grassland, Riparian forest, Riparian woodland, Valley & foothill grassland	Low. Suitable open grassland habitat is present onsite; however, this species is generally associated with larger, more open foraging habitat that can support large populations of rodents. Additionally, the most recent observation nearby dates back to 1904 and has poor locational accuracy.
western snowy plover	<i>Charadrius alexandrinus nivosus</i>	FTSSC/None	Sandy beaches, salt pond levees & shores of large alkali lakes.	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest and most recent observation of this species is in Marina Del Ray in 1904 (CNDDB).
western yellow-billed cuckoo	<i>Coccyzus americanus occidentalis</i>	FT/FE/None	Riparian forest	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest and most recent observation of this species is in the Los Angeles River near Long Beach in 1923 (CNDDB).
yellow rail	<i>Coturnicops noveboracensis</i>	None/SSC/None	Freshwater marsh, meadows & seeps	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest and most accurate observation of this species was along the strand in Manhattan Beach in 1998 (CNDDB).

TABLE 2
POTENTIALLY OCCURRING SENSITIVE WILDLIFE SPECIES

Common Name	Scientific Name	Status (Federal/State/CNDDDB)	Habitat	Potential to Occur in Study Area
Southwestern willow flycatcher	<i>Empidonax traillii</i> ssp. <i>extimus</i>	FE/SE/None	Dense willow thickets.	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest and most recent observation of this species is in the Arroyo Seco in Pasadena in 1906 (CNDDDB).
California black rail	<i>Laterallus jamaicensis</i> <i>coturniculus</i>	None/FT, FP/None	Brackish marsh, Freshwater marsh, Marsh & swamp, Salt marsh, Wetland	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest and most recent observation of this species is in the Ballona Marsh in Playa Del Rey in 1928 (CNDDDB).
Belding's savannah sparrow	<i>Passerculus sandwichensis</i> <i>beldingi</i>	None/SE/None	Marsh, Swamp, Wetlands	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest and most recent observation of this species is in the Ballona Creek in Playa Del Rey in 2001 (CNDDDB).
California brown pelican	<i>Pelecanus occidentalis</i> <i>californicus</i>	None/FP/None	Coastal	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest and most recent observation of this species is in the Ballona Creek in Playa Del Rey in 2001 (CNDDDB).
California gnatcatcher	<i>Poliophtila californica</i> ssp. <i>californica</i>	FT/SSC/None	Coastal bluff scrub and coastal scrub.	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest and most recent observation of this species is on the Palos Verdes Peninsula in 2006 (CNDDDB).
Bank swallow	<i>Riparia riparia</i>	None/ST/None	Riparian scrub and woodland.	Unlikely. No suitable habitat is present within the survey area; additionally, this species is not known to breed in Southern California. The southernmost occurrences have been recorded in the Salinas River near King City, Monterey County (CDFW 1992).
California least tern	<i>Sternula antillarum</i> <i>browni</i>	FE/SE, FP/None	Alkali playa, wetlands	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest and most recent observation of this species is at Venice Beach in 1996 (CNDDDB).
Least Bell's vireo	<i>Vireo bellii</i> ssp. <i>pusillus</i>	FE/SE/None	Riparian scrub and forest.	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site. The nearest and most recent observation of this species is at the Ballona Wetlands in Marina Del Rey in 2010 (CNDDDB).

TABLE 2
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Common Name	Scientific Name	Status (Federal/State/CNDDB)	Habitat	Potential to Occur in Study Area
Mammals				
Pallid bat	<i>Antrozous pallidus</i>	None/SSC/WBVG-H	Grasslands, shrublands, woodlands, and coniferous forests; most common in open, dry habitat with rocky areas for roosting, as well as abandon buildings and medal clad structures.	Low. Suitable foraging habitat is absent from the survey area. Potential for roosting could occur in crevices and trees in and around the site, but due to the highly developed nature of the site, the roosting availability would be marginal
western mastiff bat	<i>Eumops perotis</i> ssp. <i>californicus</i>	None/SSC/WBVG-H	Chaparral, cismontane woodland, coastal scrub and valley and foothill grassland.	Low. Suitable foraging habitat is absent from the survey area. Potential for roosting could occur in crevices and trees in and around the site, but due to the highly developed nature of the site, the roosting availability would be marginal
slver haired bat	<i>Lasionycteris noctivagans</i>	None/NoneWBVG-M	Rocky areas throughout various habitats from deserts to mountain landscapes.	Low. Suitable foraging habitat is absent from the survey area. Potential for roosting could occur in crevices and trees in and around the site, but due to the highly developed nature of the site, the roosting availability would be marginal
hoary bat	<i>Lasiurus cinereus</i>	None/None/WBVG-M	Various forest and woodland types including cismontane woodland.	Low. Suitable foraging habitat is absent from the survey area. Potential for roosting could occur in crevices and trees in and around the site, but due to the highly developed nature of the site, the roosting availability would be marginal
south coast marsh vole	<i>Microtus californicus stephensi</i>	None/SSC/None	Tidal Marsh	Unlikely. No tidal marshes occur within the survey area.
Pocket free-tailed bat	<i>Myotis yumanensis</i>	None/SSC/WBVG-M	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc.	Low. Suitable foraging habitat is absent from the survey area. Potential for roosting could occur in crevices and trees in and around the site, but due to the highly developed nature of the site, the roosting availability would be marginal
big free-tailed bat	<i>Nyctinomops macrotis</i>	None/SSC/WBVG-MH	High cliffs and rocky outcroppings in arid regions throughout California	Low. Suitable foraging habitat is absent from the survey area. Potential for roosting could occur in crevices and trees in and around the site, but due to the highly developed nature of the site, the roosting availability would be marginal
Pacific pocket mouse	<i>Perognathus longimembris pacificus</i>	FE/SSC/None	Coastal scrub	Unlikely. No coastal scrub habitat occurs within the survey area.

TABLE 2
POTENTIALLY OCCURRING SENSITIVE WILDLIFE SPECIES

Common Name	Scientific Name	Status (Federal/State/CNDDDB)	Habitat	Potential to Occur in Study Area
southern California saltmarsh shrew	<i>Sorex ornatus salicornicus</i>	None/SSC/None	Salt Marsh	Unlikely. No salt marsh habitat occur within the survey area
American badger	<i>Taxidea taxus</i>	None/SSC/None	Alkali marsh, Alkali playa, Alpine, Alpine dwarf scrub, Bog & fen, Brackish marsh, Broadleaved upland forest, Chaparral, Chenopod scrub, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal prairie, Coasta	Unlikely. Suitable foraging habitat is absent from the survey area. No suitable burrows were observed onsite during the survey. he most recent observation nearby dates back to 1986 and has poor locational accuracy.
Reptiles				
southern California legless lizard	<i>Anniella stebbinsi</i>	None/SSC/None	Various habitats, including coastal sage scrub and chaparral on the coastal side of the southern California mountain ranges.	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site.
California glossy snake	<i>Arizona elegans occidentalis</i>	None/SSC/None	Scrub and grassland habitats, often with loose or sandy soils	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site.
Coastal whiptail	<i>Aspidoscelis tigris</i> ssp. <i>tigris</i>	None/SSC/None	Broadleaved upland forest, Chaparral, Coastal dunes, Coastal scrub	Unlikely. Suitable foraging and breeding habitat for this species is not present within the site.
western pond turtle	<i>Emys marmorata</i>	None/SSC/None	Perennial streams or nearly permanent bodies of water.	Unlikely. Suitable aquatic habitat for this species is not present within the site.
Coast horned lizard	<i>Phrynosoma blainvillii</i>	None/SSC/None	Coastal scrub and chaparral.	Unlikely. Suitable habitat for this species is not present within the survey area.
Fish				
Mohave tui chub	<i>Siphateles bicolor mohavensis</i>	FE/SE, FP/None	Endemic to the Mojave River basin, adapted to alkaline, mineralized waters.	Unlikely. Suitable aquatic habitat for this species is not present within the site.
Insects				
El Segundo blue butterfly	<i>Euphilotes battoides allyni</i>	FE/None/None	Restricted to remnant coastal dune habitat in Southern California.	Unlikely. Suitable host plant and habitat for this species is not present within the site.
Palos Verdes blue butterfly	<i>Glaucopsyche lygdamus palosverdesensis</i>	FE/None/None	Restricted to the cool, fog-shrouded, seaward side of Palos Verdes Hills, Los Angeles County.	Unlikely. Suitable host plant and habitat for this species is not present within the site.

TABLE 2
POTENTIALLY OCCURRING SENSITIVE WILDLIFE SPECIES

Common Name	Scientific Name	Status (Federal/State/CNDDB)	Habitat	Potential to Occur in Study Area
Crustaceans				
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	FE/None/None	Endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub.	Unlikely. Suitable aquatic habitat is absent from the survey area.
STATUS: Federal: FE – Federally Endangered, FT – Federally Threatened, BGEPA – Bald and Golden Eagle Protection Act, FSC – Federal Species of Concern State: FP – State Fully Protected, SE – State Endangered, ST – State Threatened, SSC – State Species of Special Concern, WL – State Watch List CNDDB: WBWG – Western Bat Working Group (LM – Low to Medium Priority, M – Medium Priority, H – High Priority)				



Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad< IS (Inglewood (3311883) OR Beverly Hills (3411814) OR Hollywood (3411813) OR Los Angeles (3411812) OR Venice (3311884) OR South Gate (3311882) OR Long Beach (3311872) OR Torrance (3311873) OR Redondo Beach (3311874))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	Threatened	G2G3	S1S2	SSC
<i>Aimophila ruficeps canescens</i> southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S3	WL
<i>Anniella stebbinsi</i> southern California legless lizard	ARACC01060	None	None	G3	S3	SSC
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G5	S3	SSC
<i>Aphanisma blitoides</i> aphanisma	PDCHE02010	None	None	G3G4	S2	1B.2
<i>Arenaria paludicola</i> marsh sandwort	PDCAR040L0	Endangered	Endangered	G1	S1	1B.1
<i>Arizona elegans occidentalis</i> California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
<i>Aspidoscelis tigris stejnegeri</i> coastal whiptail	ARACJ02143	None	None	G5T5	S3	SSC
<i>Astragalus brauntonii</i> Braunton's milk-vetch	PDFAB0F1G0	Endangered	None	G2	S2	1B.1
<i>Astragalus pycnostachyus var. lanosissimus</i> Ventura Marsh milk-vetch	PDFAB0F7B1	Endangered	Endangered	G2T1	S1	1B.1
<i>Astragalus tener var. titi</i> coastal dunes milk-vetch	PDFAB0F8R2	Endangered	Endangered	G2T1	S1	1B.1
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Atriplex coulteri</i> Coulter's saltbush	PDCHE040E0	None	None	G3	S1S2	1B.2
<i>Atriplex pacifica</i> south coast saltscale	PDCHE041C0	None	None	G4	S2	1B.2
<i>Atriplex parishii</i> Parish's brittlescale	PDCHE041D0	None	None	G1G2	S1	1B.1
<i>Atriplex serenana var. davidsonii</i> Davidson's saltscale	PDCHE041T1	None	None	G5T1	S1	1B.2
<i>Berberis nevini</i> Nevin's barberry	PDBER060A0	Endangered	Endangered	G1	S1	1B.1
<i>Bombus crotchii</i> Crotch bumble bee	IIHYM24480	None	None	G3G4	S1S2	
<i>Brennania belkini</i> Belkin's dune tabanid fly	IIDIP17010	None	None	G1G2	S1S2	



Selected Elements by Scientific Name

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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
<i>California Walnut Woodland</i> California Walnut Woodland	CTT71210CA	None	None	G2	S2.1	
<i>Calochortus plummerae</i> Plummer's mariposa-lily	PMLIL0D150	None	None	G4	S4	4.2
<i>Calystegia felix</i> lucky morning-glory	PDCON040P0	None	None	G1Q	S1	1B.1
<i>Carolella busckana</i> Busck's gallmoth	IILEM2X090	None	None	G1G3	SH	
<i>Centromadia parryi ssp. australis</i> southern tarplant	PDAST4R0P4	None	None	G3T2	S2	1B.1
<i>Centromadia pungens ssp. laevis</i> smooth tarplant	PDAST4R0R4	None	None	G3G4T2	S2	1B.1
<i>Chaenactis glabriuscula var. orcuttiana</i> Orcutt's pincushion	PDAST20095	None	None	G5T1T2	S1	1B.1
<i>Charadrius alexandrinus nivosus</i> western snowy plover	ABNNB03031	Threatened	None	G3T3	S2S3	SSC
<i>Chenopodium littoreum</i> coastal goosefoot	PDCHE091Z0	None	None	G1	S1	1B.2
<i>Chloropyron maritimum ssp. maritimum</i> salt marsh bird's-beak	PDSCR0J0C2	Endangered	Endangered	G4?T1	S1	1B.2
<i>Chorizanthe parryi var. fernandina</i> San Fernando Valley spineflower	PDPGN040J1	Proposed Threatened	Endangered	G2T1	S1	1B.1
<i>Cicindela gabbii</i> western tidal-flat tiger beetle	IICOL02080	None	None	G2G4	S1	
<i>Cicindela hirticollis gravida</i> sandy beach tiger beetle	IICOL02101	None	None	G5T2	S2	
<i>Cicindela latesignata latesignata</i> western beach tiger beetle	IICOL02113	None	None	G2G4T1T2	S1	
<i>Cicindela senilis frosti</i> senile tiger beetle	IICOL02121	None	None	G2G3T1T3	S1	
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
<i>Coelus globosus</i> globose dune beetle	IICOL4A010	None	None	G1G2	S1S2	
<i>Coturnicops noveboracensis</i> yellow rail	ABNME01010	None	None	G4	S1S2	SSC
<i>Danaus plexippus pop. 1</i> monarch - California overwintering population	IILEPP2012	None	None	G4T2T3	S2S3	
<i>Dithyrea maritima</i> beach spectaclepod	PDBRA10020	None	Threatened	G1	S1	1B.1



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Dudleya multicaulis</i> many-stemmed dudleya	PDCRA040H0	None	None	G2	S2	1B.2
<i>Dudleya virens ssp. insularis</i> island green dudleya	PDCRA040S2	None	None	G3?T3	S3	1B.2
<i>Empidonax traillii extimus</i> southwestern willow flycatcher	ABPAE33043	Endangered	Endangered	G5T2	S1	
<i>Emys marmorata</i> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<i>Eryngium aristulatum var. parishii</i> San Diego button-celery	PDAP10Z042	Endangered	Endangered	G5T1	S1	1B.1
<i>Eucosma hennei</i> Henne's eucosman moth	IILEM0R390	None	None	G1	S1	
<i>Eumops perotis californicus</i> western mastiff bat	AMACD02011	None	None	G5T4	S3S4	SSC
<i>Euphilotes battoides allyni</i> El Segundo blue butterfly	IILEPG201B	Endangered	None	G5T1	S1	
<i>Glaucopsyche lygdamus palosverdesensis</i> Palos Verdes blue butterfly	IILEPG402A	Endangered	None	G5T1	S1	
<i>Helianthus nuttallii ssp. parishii</i> Los Angeles sunflower	PDAST4N102	None	None	G5TH	SH	1A
<i>Horkelia cuneata var. puberula</i> mesa horkelia	PDROS0W045	None	None	G4T1	S1	1B.1
<i>Isocoma menziesii var. decumbens</i> decumbent goldenbush	PDAST57091	None	None	G3G5T2T3	S2	1B.2
<i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010	None	None	G5	S3S4	
<i>Lasiurus cinereus</i> hoary bat	AMACC05030	None	None	G5	S4	
<i>Lasthenia glabrata ssp. coulteri</i> Coulter's goldfields	PDAST5L0A1	None	None	G4T2	S2	1B.1
<i>Laterallus jamaicensis coturniculus</i> California black rail	ABNME03041	None	Threatened	G3G4T1	S1	FP
<i>Lepidium virginicum var. robinsonii</i> Robinson's pepper-grass	PDBRA1M114	None	None	G5T3	S3	4.3
<i>Lycium brevipes var. hassei</i> Santa Catalina Island desert-thorn	PDSOL0G0N0	None	None	G5T1Q	S1	3.1
<i>Microtus californicus stephensi</i> south coast marsh vole	AMAFF11035	None	None	G5T1T2	S1S2	SSC
<i>Nama stenocarpa</i> mud nama	PDHYD0A0H0	None	None	G4G5	S1S2	2B.2
<i>Nasturtium gambelii</i> Gambel's water cress	PDBRA270V0	Endangered	Threatened	G1	S1	1B.1



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Navarretia fossalis</i> spreading navarretia	PDPLM0C080	Threatened	None	G2	S2	1B.1
<i>Navarretia prostrata</i> prostrate vernal pool navarretia	PDPLM0C0Q0	None	None	G2	S2	1B.1
<i>Nemacaulis denudata</i> var. <i>denudata</i> coast woolly-heads	PDPGN0G011	None	None	G3G4T2	S2	1B.2
<i>Nyctinomops femorosaccus</i> pocketed free-tailed bat	AMACD04010	None	None	G4	S3	SSC
<i>Nyctinomops macrotis</i> big free-tailed bat	AMACD04020	None	None	G5	S3	SSC
<i>Onychobaris langei</i> Lange's El Segundo Dune weevil	IICOL4W010	None	None	G1	S1	
<i>Orcuttia californica</i> California Orcutt grass	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
<i>Panoquina errans</i> wandering (=saltmarsh) skipper	IILEP84030	None	None	G4G5	S2	
<i>Passerculus sandwichensis beldingi</i> Belding's savannah sparrow	ABPBX99015	None	Endangered	G5T3	S3	
<i>Pelecanus occidentalis californicus</i> California brown pelican	ABNFC01021	Delisted	Delisted	G4T3T4	S3	FP
<i>Pentachaeta lyonii</i> Lyon's pentachaeta	PDAST6X060	Endangered	Endangered	G1	S1	1B.1
<i>Perognathus longimembris pacificus</i> Pacific pocket mouse	AMAFD01042	Endangered	None	G5T1	S1	SSC
<i>Phacelia stellaris</i> Brand's star phacelia	PDHYD0C510	None	None	G1	S1	1B.1
<i>Phrynosoma blainvillii</i> coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
<i>Poliophtila californica californica</i> coastal California gnatcatcher	ABPBJ08081	Threatened	None	G4G5T2Q	S2	SSC
<i>Potentilla multijuga</i> Ballona cinquefoil	PDROS1B120	None	None	GX	SX	1A
<i>Pseudognaphalium leucocephalum</i> white rabbit-tobacco	PDAST440C0	None	None	G4	S2	2B.2
<i>Quercus dumosa</i> Nuttall's scrub oak	PDFAG050D0	None	None	G3	S3	1B.1
<i>Rhaphiomidas terminatus terminatus</i> El Segundo flower-loving fly	IIDIP05022	None	None	G1T1	S1	
<i>Ribes divaricatum</i> var. <i>parishii</i> Parish's gooseberry	PDGRO020F3	None	None	G5TX	SX	1A
<i>Riparia riparia</i> bank swallow	ABPAU08010	None	Threatened	G5	S2	



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Sidalcea neomexicana</i> salt spring checkerbloom	PDMAL110J0	None	None	G4	S2	2B.2
<i>Siphateles bicolor mohavensis</i> Mohave tui chub	AFCJB1303H	Endangered	Endangered	G4T1	S1	FP
<i>Socalchemmis gertschi</i> Gertsch's socalchemmis spider	ILARAU7010	None	None	G1	S1	
<i>Sorex ornatus salicornicus</i> southern California saltmarsh shrew	AMABA01104	None	None	G5T1?	S1	SSC
<i>Southern Coast Live Oak Riparian Forest</i> Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
<i>Southern Coastal Bluff Scrub</i> Southern Coastal Bluff Scrub	CTT31200CA	None	None	G1	S1.1	
<i>Southern Coastal Salt Marsh</i> Southern Coastal Salt Marsh	CTT52120CA	None	None	G2	S2.1	
<i>Southern Dune Scrub</i> Southern Dune Scrub	CTT21330CA	None	None	G1	S1.1	
<i>Southern Sycamore Alder Riparian Woodland</i> Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
<i>Sternula antillarum browni</i> California least tern	ABNNM08103	Endangered	Endangered	G4T2T3Q	S2	FP
<i>Streptocephalus woottoni</i> Riverside fairy shrimp	ICBRA07010	Endangered	None	G1G2	S1S2	
<i>Suaeda esteroa</i> estuary seablite	PDCHE0P0D0	None	None	G3	S2	1B.2
<i>Symphotrichum defoliatum</i> San Bernardino aster	PDASTE80C0	None	None	G2	S2	1B.2
<i>Symphotrichum greatae</i> Greata's aster	PDASTE80U0	None	None	G2	S2	1B.3
<i>Taxidea taxus</i> American badger	AMAJF04010	None	None	G5	S3	SSC
<i>Trigonoscuta dorothea dorothea</i> Dorothy's El Segundo Dune weevil	IICOL51021	None	None	G1T1	S1	
<i>Tryonia imitator</i> mimic tryonia (=California brackishwater snail)	IMGASJ7040	None	None	G2	S2	
<i>Vireo bellii pusillus</i> least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	
<i>Walnut Forest</i> Walnut Forest	CTT81600CA	None	None	G1	S1.1	

Record Count: 101



*The database used to provide updates to the Online Inventory is under construction. [View updates and changes made since May 2019 here.](#)

Plant List

59 matches found. [Click on scientific name for details](#)

Search Criteria

Found in Quads 3411814, 3411813, 3411812, 3311884, 3311883, 3311882, 3311874 3311873 and 3311872;

[Modify Search Criteria](#) [Export to Excel](#) [Modify Columns](#) [Modify Sort](#) [Display Photos](#)

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Abronia maritima	red sand-verbena	Nyctaginaceae	perennial herb	Feb-Nov	4.2	S3?	G4
Aphanisma blitoides	aphanisma	Chenopodiaceae	annual herb	Feb-Jun	1B.2	S2	G3G4
Arenaria paludicola	marsh sandwort	Caryophyllaceae	perennial stoloniferous herb	May-Aug	1B.1	S1	G1
Astragalus brauntonii	Braunton's milk-vetch	Fabaceae	perennial herb	Jan-Aug	1B.1	S2	G2
Astragalus pycnostachyus var. lanosissimus	Ventura marsh milk-vetch	Fabaceae	perennial herb	(Jun)Aug-Oct	1B.1	S1	G2T1
Astragalus tener var. titi	coastal dunes milk-vetch	Fabaceae	annual herb	Mar-May	1B.1	S1	G2T1
Atriplex coulteri	Coulter's saltbush	Chenopodiaceae	perennial herb	Mar-Oct	1B.2	S1S2	G3
Atriplex pacifica	South Coast saltscale	Chenopodiaceae	annual herb	Mar-Oct	1B.2	S2	G4
Atriplex parishii	Parish's brittlescale	Chenopodiaceae	annual herb	Jun-Oct	1B.1	S1	G1G2
Atriplex serenana var. davidsonii	Davidson's saltscale	Chenopodiaceae	annual herb	Apr-Oct	1B.2	S1	G5T1
Berberis nevinii	Nevin's barberry	Berberidaceae	perennial evergreen shrub	(Feb)Mar-Jun	1B.1	S1	G1
Calochortus catalinae	Catalina mariposa lily	Liliaceae	perennial bulbiferous herb	(Feb)Mar-Jun	4.2	S3S4	G3G4
Calochortus plummerae	Plummer's mariposa lily	Liliaceae	perennial bulbiferous herb	May-Jul	4.2	S4	G4
Calystegia felix	lucky morning-glory	Convolvulaceae	annual rhizomatous herb	Mar-Sep	1B.1	S1	G1Q
Calystegia peirsonii	Peirson's morning-glory	Convolvulaceae	perennial rhizomatous herb	Apr-Jun	4.2	S4	G4
Camissoniopsis lewisii	Lewis' evening-primrose	Onagraceae	annual herb	Mar-May(Jun)	3	S4	G4

<u>Centromadia parryi ssp. australis</u>	southern tarplant	Asteraceae	annual herb	May-Nov	1B.1	S2	G3T2
<u>Chaenactis glabriuscula var. orcuttiana</u>	Orcutt's pincushion	Asteraceae	annual herb	Jan-Aug	1B.1	S1	G5T1T2
<u>Chenopodium littoreum</u>	coastal goosefoot	Chenopodiaceae	annual herb	Apr-Aug	1B.2	S1	G1
<u>Chloropyron maritimum ssp. maritimum</u>	salt marsh bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	May-Oct(Nov)	1B.2	S1	G4?T1
<u>Chorizanthe parryi var. fernandina</u>	San Fernando Valley spineflower	Polygonaceae	annual herb	Apr-Jul	1B.1	S1	G2T1
<u>Cistanthe maritima</u>	seaside cistanthe	Montiaceae	annual herb	(Feb)Mar-Jun(Aug)	4.2	S3	G3G4
<u>Clinopodium mimuloides</u>	monkey-flower savory	Lamiaceae	perennial herb	Jun-Oct	4.2	S3	G3
<u>Convolvulus simulans</u>	small-flowered morning-glory	Convolvulaceae	annual herb	Mar-Jul	4.2	S4	G4
<u>Deinandra paniculata</u>	paniculate tarplant	Asteraceae	annual herb	(Mar)Apr-Nov(Dec)	4.2	S4	G4
<u>Dichondra occidentalis</u>	western dichondra	Convolvulaceae	perennial rhizomatous herb	(Jan)Mar-Jul	4.2	S3S4	G3G4
<u>Dithyrea maritima</u>	beach spectaclepod	Brassicaceae	perennial rhizomatous herb	Mar-May	1B.1	S1	G1
<u>Dudleya multicaulis</u>	many-stemmed dudleya	Crassulaceae	perennial herb	Apr-Jul	1B.2	S2	G2
<u>Dudleya virens ssp. insularis</u>	island green dudleya	Crassulaceae	perennial herb	Apr-Jun	1B.2	S3	G3?T3
<u>Eryngium aristulatum var. parishii</u>	San Diego button-celery	Apiaceae	annual / perennial herb	Apr-Jun	1B.1	S1	G5T1
<u>Erysimum suffrutescens</u>	suffrutescent wallflower	Brassicaceae	perennial herb	Jan-Jul(Aug)	4.2	S3	G3
<u>Helianthus nuttallii ssp. parishii</u>	Los Angeles sunflower	Asteraceae	perennial rhizomatous herb	Aug-Oct	1A	SH	G5TH
<u>Hordeum intercedens</u>	vernal barley	Poaceae	annual herb	Mar-Jun	3.2	S3S4	G3G4
<u>Horkelia cuneata var. puberula</u>	mesa horkelia	Rosaceae	perennial herb	Feb-Jul(Sep)	1B.1	S1	G4T1
<u>Isocoma menziesii var. decumbens</u>	decumbent goldenbush	Asteraceae	perennial shrub	Apr-Nov	1B.2	S2	G3G5T2T3
<u>Juglans californica</u>	Southern California black walnut	Juglandaceae	perennial deciduous tree	Mar-Aug	4.2	S4	G4
<u>Juncus acutus ssp. leopoldii</u>	southwestern spiny rush	Juncaceae	perennial rhizomatous herb	(Mar)May-Jun	4.2	S4	G5T5
<u>Lasthenia glabrata ssp. coulteri</u>	Coulter's goldfields	Asteraceae	annual herb	Feb-Jun	1B.1	S2	G4T2
<u>Lepidium virginicum var. robinsonii</u>	Robinson's pepper-grass	Brassicaceae	annual herb	Jan-Jul	4.3	S3	G5T3
<u>Leptosyne maritima</u>	sea dahlia	Asteraceae	perennial herb	Mar-May	2B.2	S1S2	G2
<u>Lycium brevipes var. hassei</u>	Santa Catalina Island desert-thorn	Solanaceae	perennial deciduous shrub	Jun(Aug)	3.1	S1	G5T1Q

<u>Nama stenocarpa</u>	mud nama	Namaceae	annual / perennial herb	Jan-Jul	2B.2	S1S2	G4G5
<u>Nasturtium gambelii</u>	Gambel's water cress	Brassicaceae	perennial rhizomatous herb	Apr-Oct	1B.1	S1	G1
<u>Navarretia fossalis</u>	spreading navarretia	Polemoniaceae	annual herb	Apr-Jun	1B.1	S2	G2
<u>Navarretia prostrata</u>	prostrate vernal pool navarretia	Polemoniaceae	annual herb	Apr-Jul	1B.1	S2	G2
<u>Nemacaulis denudata var. denudata</u>	coast woolly-heads	Polygonaceae	annual herb	Apr-Sep	1B.2	S2	G3G4T2
<u>Orcuttia californica</u>	California Orcutt grass	Poaceae	annual herb	Apr-Aug	1B.1	S1	G1
<u>Pentachaeta lyonii</u>	Lyon's pentachaeta	Asteraceae	annual herb	(Feb)Mar- Aug	1B.1	S1	G1
<u>Phacelia hubbyi</u>	Hubby's phacelia	Hydrophyllaceae	annual herb	Apr-Jul	4.2	S4	G4
<u>Phacelia ramosissima var. australitoralis</u>	south coast branching phacelia	Hydrophyllaceae	perennial herb	Mar-Aug	3.2	S3	G5?T3Q
<u>Phacelia stellaris</u>	Brand's star phacelia	Hydrophyllaceae	annual herb	Mar-Jun	1B.1	S1	G1
<u>Potentilla multijuga</u>	Ballona cinquefoil	Rosaceae	perennial herb	Jun-Aug	1A	SX	GX
<u>Pseudognaphalium leucocephalum</u>	white rabbit-tobacco	Asteraceae	perennial herb	(Jul)Aug- Nov(Dec)	2B.2	S2	G4
<u>Quercus dumosa</u>	Nuttall's scrub oak	Fagaceae	perennial evergreen shrub	Feb- Apr(May- Aug)	1B.1	S3	G3
<u>Sidalcea neomexicana</u>	salt spring checkerbloom	Malvaceae	perennial herb	Mar-Jun	2B.2	S2	G4
<u>Suaeda esteroa</u>	estuary seablite	Chenopodiaceae	perennial herb	(May)Jul- Oct(Jan)	1B.2	S2	G3
<u>Suaeda taxifolia</u>	woolly seablite	Chenopodiaceae	perennial evergreen shrub	Jan-Dec	4.2	S4	G4
<u>Symphyotrichum defoliatum</u>	San Bernardino aster	Asteraceae	perennial rhizomatous herb	Jul- Nov(Dec)	1B.2	S2	G2
<u>Symphyotrichum greatae</u>	Greata's aster	Asteraceae	perennial rhizomatous herb	Jun-Oct	1B.3	S2	G2

Suggested Citation

California Native Plant Society, Rare Plant Program. 2019. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website <http://www.rareplants.cnps.org> [accessed 27 June 2019].

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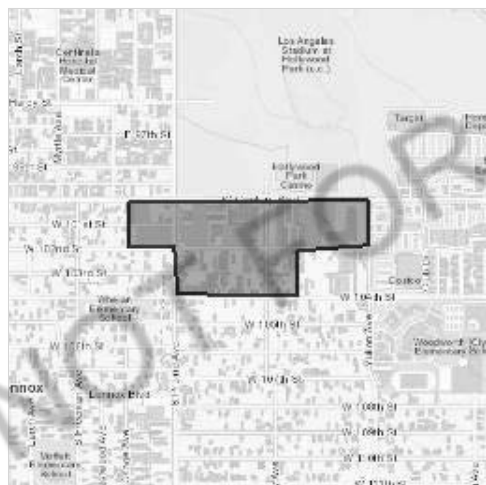
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Los Angeles County, California



Local office

Carlsbad Fish And Wildlife Office

☎ (760) 431-9440

📠 (760) 431-5901

2177 Salk Avenue - Suite 250
Carlsbad, CA 92008-7385

<http://www.fws.gov/carlsbad/>

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information.
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME

STATUS

Coastal California Gnatcatcher *Polioptila californica californica* **Threatened**
There is **final** critical habitat for this species. Your location is outside the critical habitat.
<https://ecos.fws.gov/ecp/species/8178>

Western Snowy Plover *Charadrius nivosus nivosus* **Threatened**
There is **final** critical habitat for this species. Your location is outside the critical habitat.
<https://ecos.fws.gov/ecp/species/8035>

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

MIGRATORY BIRD INFORMATION IS NOT AVAILABLE AT THIS TIME

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern \(BCC\)](#) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.



[Home \(/\)](#) | [Data \(https://www.wildlife.ca.gov/Explore/Organization/BDB\)](https://www.wildlife.ca.gov/Explore/Organization/BDB) | [CWHR \(https://www.wildlife.ca.gov/Data/CWHR\)](https://www.wildlife.ca.gov/Data/CWHR) | **Wildlife Habitats (#)**

[Login](#)

Wildlife Habitats - California Wildlife Habitat Relationships System

About the CWHR Habitat Classification Scheme

The CWHR habitat classification scheme has been developed to support the CWHR System, a wildlife information system and predictive model for California's regularly-occurring birds, mammals, reptiles and amphibians. When first published in 1988, the classification scheme had 53 habitats. These habitats, except the non-vegetated Barren habitat, are described in detail in the CWHR publication entitled:

A Guide to Wildlife Habitats of California. 1988.

Edited by Kenneth E. Mayer and William F. Laudenslayer, Jr.
State of California, Resources Agency,
Department of Fish and Game
Sacramento, CA. 166 pp.

The entire original publication is available online with updates (see below).

At present, there are 59 wildlife habitats in the CWHR System: 27 tree, 12 shrub, 6 herbaceous, 4 aquatic, 8 agricultural, 1 developed, and 1 non-vegetated ([download Habitat Range shapefiles \(.zip\)](#) (ftp://ftp.wildlife.ca.gov/BDB/CWHR/GIS/CWHR_Habitats_GIS2014.zip)). Please note: the 59 habitats described below were designed for use with a predictive model for terrestrial vertebrate wildlife species. They do not represent a comprehensive classification scheme for the conservation and mapping of California's terrestrial vegetation* or its marine and estuarine habitats**.

- **Stages** are defined for virtually all habitats. A stage is a combination of size and cover class for tree-dominated habitats, age and cover class for shrub habitats, height and cover class for herb habitats, and depth and substrate for aquatic habitats. A field sampling protocol is well-established for determining stages in all vegetated habitats.
- **Special habitat elements** are also defined. They include live and decadent vegetation elements such as snags, physical elements such as banks and burrows, aquatic elements, vegetative and animal diet elements and human-made elements.

The predictive model for each species has expert-applied suitability ratings for three life-requisites – breeding, cover and feeding. For each species, each habitat stage is rated as high, medium, low or unsuitable for each of these life requirements. Each special habitat element is also assessed as essential, secondarily essential, preferred or not rated for the species.

* Notes on Classification and Mapping of Terrestrial Vegetation in California

- Information on classification and mapping of terrestrial vegetation is available from the [Vegetation Classification and Mapping Program \(VegCAMP\)](#) ([/Data/VegCAMP](#)), CDFW Biogeographic Data Branch.
- Field sampling for CWHR habitat stages has been incorporated into the California Native Plant Society (CNPS) Rapid Assessment Protocol, to increase the utility of the resulting vegetation maps for wildlife modeling and conservation. Information and links to field forms are available on the [CNPS website](#) (<http://www.cnps.org/cnps/vegetation/protocol.php>).
- Crosswalks to the CWHR habitat classification scheme are included in all of California's major vegetation and land cover mapping efforts.


















** Notes on Classification of Marine and Estuarine Habitats in California

- A classification scheme for the conservation and management of marine and estuarine habitats was developed in cooperation with the CWHR Program in 2002. It includes descriptions for 22 marine and 19 estuarine habitats. At present, it does not include suitability ratings to habitat stages or special habitat elements for the terrestrial amphibians, reptiles, birds and mammals currently in the CWHR System.
- The new classification includes crosswalks to other important, recent classifications regarding coastal waters. Included are crosswalks to Wetlands of the Central and Southern California Coast and Coastal Watersheds; a methodology for their classification and description (Ferren et al., 1996), Baylands Ecosystem Habitat Goals: a report of habitat recommendations (U.S. Environmental Protection Agency, 1999), A classification scheme for deep sea floor habitats (Greene et al., 1999), and Wildlife-habitat relationships in Oregon and Washington (Johnson and O'Neil, 2001). Also included are crosswalks to a national scheme for marine and estuarine ecosystems and habitat classification published by the National Oceanic and Atmospheric Administration (NOAA) in 2002 and a classification for habitats of the Channel Islands drafted in 2000 by the Channel Island National Marine Sanctuary (CINMS).

[Revision to Marine and Estuarine Habitats of the California Wildlife Habitat Relationships System \(2002\) \(PDF\)](#)
(<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65848&inline>)













A Guide to Wildlife Habitats of California (1988)











































Guide Section	Updates
Contributing Authors, Acknowledgements, and Preface (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65849&inline)	




























Guide Section	Updates
<p> Introduction and Scope (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65850&inline)</p> <p>Includes:</p> <ul style="list-style-type: none"> • How to Use the Guide • How to Classify Habitats • Special Habitat Elements • Available Habitat Stages 	<p> Revised Classification Rules (2005) (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65851&inline)</p> <p> Wooded Habitat Sampling Datasheet (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65852&inline)</p> <p> Analysis of Wooded Habitat Sampling Data (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65853&inline)</p> <p> Non-Wooded Habitat Sampling Datasheet (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65855&inline)</p> <p> Analysis of Non-Wooded Habitat Sampling Data (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65854&inline)</p> <p> Habitat Element Checklist (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65856&inline)</p> <p> Available Habitat Stages for Agricultural Habitats (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65857&inline)</p> <p> Definition of Added Human Element - Mine (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65858&inline)</p> <p> Clarification of the Measurement of California Wildlife Habitat Relationships (CWHR) System Size Class 5 and 6 for Tree Habitats (2007) (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87342&inline)</p>
<p> Crosswalk Between WHR and California Vegetation Classifications (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65859&inline)</p>	<p> CWHR Crosswalked with CNPS Vegetation Classification (2005) (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65860&inline)</p> <p> CWHR Crosswalked with CalVeg Classification (2005) (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65861&inline)</p> <p> UNESCO Formations Within CWHR (1998) (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65862&inline)</p> <p> CWHR Crosswalked with DWR Land Use Types (2008) (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65863&inline)</p>
<p> Literature Cited (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65864&inline)</p>	
<p> Plants and Animals Referenced in Text (PDF) (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=65865&inline)</p>	

Habitat Types













Tree Dominated Habitats

























HABITAT TYPE	PRIMARY SPECIES REFERENCED IN TEXT	1988 Text Account	Range Map	Photo
Subalpine Conifer (SCN)	Engelmann Spruce, Subalpine Fir, Mountain Hemlock	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67305&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67306&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87266&inline)
Red Fir (RFR)	Red Fir, White Fir, Lodgepole Pine	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67307&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67308&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87263&inline)
Lodgepole Pine (LPN)	Lodgepole Pine, Aspen, Mountain Hemlock	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67309&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67310&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87248&inline)
Sierran Mixed Conifer (SMC)	Douglas Fir, Ponderosa Pine, White Fir New! <i>updated description of range</i>	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67311&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67312&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87269&inline)

HABITAT TYPE	PRIMARY SPECIES REFERENCED IN TEXT	1988 Text Account	Range Map	Photo
White Fir (WFR)	White Fir, Douglas Fir, Sugar Pine New! <i>corrected range map</i>	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67313&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67314&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87274&inline)
Klamath Mixed Conifer (KMC)	White Fir, Douglas-Fir, Ponderosa Pine New! <i>updated description</i>	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67316&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67317&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87246&inline)
Douglas Fir (DFR)	Douglas Fir, Tanoak, Ponderosa Pine	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67318&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67319&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87228&inline)
Jeffrey Pine (JPN)	Jeffrey Pine, Ponderosa Pine, Sugar Pine	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67320&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67321&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87243&inline)
Ponderosa Pine (PPN)	Ponderosa Pine, Jeffrey Pine, Douglas Fir	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67322&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67323&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87261&inline)
Eastside Pine (EPN)	Ponderosa Pine, Jeffrey Pine, White Fir	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67324&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67350&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87236&inline)
Redwood (RDW)	Redwood, Grand Fir, Sitka Spruce	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67326&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67327&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87262&inline)
Pinyon-Juniper (PJN)	Pinyon Species, Juniper Species, Mountain Mahogany Species	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67328&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67329&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87259&inline)
Juniper (JUN)	Juniper Species, White Fir, Jeffrey Pine	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67330&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67331&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87245&inline)
Aspen (ASP)	Aspen, Willows, Alders	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67332&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67333&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87217&inline)
Closed-Cone Pine-Cypress (CPC)	Sargent Cypress, Monterey Cypress, Monterey Pine	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67334&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67335&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87225&inline)
Montane Hardwood-Conifer (MHC)	Ponderosa Pine, Incense Cedar, California Black Oak	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67336&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67337&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87253&inline)
Montane Hardwood (MHW)	Canyon Live Oak, California Black Oak, Oregon White Oak	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67338&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67339&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87254&inline)
Blue Oak Woodland (BOW)	Blue Oak, Interior Live Oak, California Buckeye	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67340&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67341&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87222&inline)













HABITAT TYPE	PRIMARY SPECIES REFERENCED IN TEXT	1988 Text Account	Range Map	Photo
Valley Oak Woodland (VOW)	Valley Oak, California Walnut, California Sycamore	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67342&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67343&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87272&inline)
Coastal Oak Woodland (COW)	Coast Live Oak, Engelmann Oak, Island Oak <i>New! updated description of dominants</i>	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67344&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67345&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87224&inline)
Blue Oak-Foothill Pine (BOP)	Foothill Pine, Blue Oak, Interior Live Oak	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67346&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67347&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87221&inline)
Eucalyptus (EUC)	Blue Gum, Red Gum	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67348&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67349&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87238&inline)
Montane Riparian (MRI)	Black Cottonwood, Bigleaf Maple, White Alder	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67350&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67351&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87255&inline)
Valley Foothill Riparian (VRI)	Cottonwood, Sycamore, Valley Oak	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67352&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67353&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87273&inline)
Desert Riparian (DRI)	Tamarisk, Mesquite, Fremont Cottonwood	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67354&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67355&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87231&inline)
Palm Oasis (POS)	Fan Palm, Velvet Ash, California Sycamore	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67356&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67357&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87260&inline)
Joshua Tree (JST)	Joshua Tree, Juniper Species, Mojave Yucca	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67358&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67359&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87244&inline)







Shrub Dominated Habitats

HABITAT TYPE	PRIMARY SPECIES REFERENCED IN TEXT	1988 Text Account	Range Map	Photo
Alpine Dwarf-Shrub (ADS)	Oceanspray, Greene Goldenweed, Mountain Heather	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67360&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67361&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87215&inline)
Low Sage (LSG)	Low Sagebrush, Black Sagebrush, Rabbitbrush Species	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67362&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67363&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87249&inline)
Bitterbrush (BBR)	Bitterbrush Species, Big Sagebrush, Rubber Rabbitbrush	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67364&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67365&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87220&inline)
Sagebrush (SGB)	Sagebrush Species, Rabbitbrush Species, Horsebrush	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67366&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67367&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87268&inline)

HABITAT TYPE	PRIMARY SPECIES REFERENCED IN TEXT	1988 Text Account	Range Map	Photo
Montane Chaparral (MCP)	Ceanothus Species, Manzanita Species, Bitter Cherry	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67368&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67369&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87252&inline)
Mixed Chaparral (MCH)	Scrub Oak, Ceanothus Species, Manzanita Species	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67370&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67371&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87251&inline)
Chamise-Redshank Chaparral (CRC)	Chamise, Redshank, Ceanothus Species	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67372&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67373&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87223&inline)
Coastal Scrub (CSC)	Coyotebush, California Buckwheat, Sage Species	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67374&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67375&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87227&inline)
Desert Succulent Shrub (DSS)	Ocotillo, Mojave Yucca, Desert Agave	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67376&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67377&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87233&inline)
Desert Wash (DSW)	Paloverde Species, Desert Ironwood, Mesquite	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67378&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67379&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87234&inline)
Desert Scrub (DSC)	Creosotebush, Catclaw Acacia, Desert Agave	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67380&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67381&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87232&inline)
Alkali Desert Scrub (ASC)	Allscale, Saltbush Species, Shadscale	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67382&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67383&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87214&inline)













Herbaceous Dominated Habitats

HABITAT TYPE	PRIMARY SPECIES REFERENCED IN TEXT	1988 Text Account	Range Map	Photo
Annual Grassland (AGS)	Wild Oats, Soft Chess, Brome Species New! <i>updated range map and description of range</i>	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67384&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67385&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87216&inline)
Perennial Grassland (PGS)	California Oatgrass, Hairgrass, Sweet Vernalgrass New! <i>updated range map and description of range</i>	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67386&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67387&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87258&inline)
Wet Meadow (WTM)	Sedge Species, Rush Species, Tufted Hairgrass	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67388&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67389&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87275&inline)
Fresh Emergent Wetland (FEW)	Cattail, Bulrush, Redroot Nutgrass	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67390&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67391&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87239&inline)



















HABITAT TYPE	PRIMARY SPECIES REFERENCED IN TEXT	1988 Text Account	Range Map	Photo
Saline Emergent Wetland (SEW)	Cordgrass, Pickleweed, Bulrush	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67392&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67393&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87267&inline)
Pasture (PAS)	Bermuda Grass, Ryegrass, Tall Fescue	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67394&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67395&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87257&inline)
















Aquatic Habitats

See also: "Notes on Classification of Marine and Estuarine Habitats" (#Marine)




HABITAT TYPE	PRIMARY SPECIES REFERENCED IN TEXT	1988 Text Account	Range Map	Photo
Riverine (RIV)	Water Moss, Algae, Duckweed	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67396&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67397&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87265&inline)
Lacustrine (LAC)	Plankton, Duckweed, Water Lilies	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67398&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67399&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87247&inline)
Estuarine (EST)	Plankton, Algae, Eel Grass	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67400&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67401&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87237&inline)
Marine (MAR)	Plankton, Algae, Kelp	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67402&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67403&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87250&inline)

Developed Habitats

HABITAT TYPE	PRIMARY SPECIES REFERENCED IN TEXT	1988 Text Account	Range Map	Photo
Cropland (CRP)	Tomatoes, Corn, Wheat ** Replaced by DGR, IGR, IRH, IRF, RIC **	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=93797&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=93795&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87226&inline)
Dryland Grain Crops (DGR)	Cereal Rye, Barley, Wheat	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67404&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67405&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87229&inline)
Irrigated Grain Crops (IGR)	Corn, Dry Beans, Safflower	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67406&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67407&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87240&inline)
Irrigated Hayfield (IRH)	Alfalfa, Hay	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67408&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67409&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87242&inline)
Irrigated Row and Field Crops (IRF)	Tomatoes, Cotton, Lettuce	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67410&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67411&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87241&inline)
Rice (RIC)	Rice	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67412&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67413&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87264&inline)

HABITAT TYPE	PRIMARY SPECIES REFERENCED IN TEXT	1988 Text Account	Range Map	Photo
Orchard - Vineyard (OVN)	Apples, Oranges, Grapes ** Replaced by DOR, EOR, VIN **	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=93798&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=93796&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87256&inline)
Deciduous Orchard (DOR)	Almonds, Walnuts, Peaches	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67414&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67415&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87230&inline)
Evergreen Orchard (EOR)	Oranges, Avocados, Lemons	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67416&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67417&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87235&inline)
Vineyard (VIN)	Grapes, Kiwi Fruit, Boysenberries	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67418&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67419&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87271&inline)
Urban (URB)	Grass Lawns, Ornamental Trees, Hedges	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67420&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67421&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87270&inline)

Non-vegetated Habitats

HABITAT TYPE	PRIMARY SPECIES REFERENCED IN TEXT	1988 Text Account	Range Map	Photo
Barren (BAR)	Rock, Gravel, Soil	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67422&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=67423&inline)	 (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87218&inline)  (https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=87219&inline)

Biogeographic Data Branch ([/Explore/Organization/BDB](#))
(916) 322-2493 | BDB@wildlife.ca.gov (<mailto:BDB@wildlife.ca.gov>)

[CWHR \(https://www.wildlife.ca.gov/Data/CWHR\)](https://www.wildlife.ca.gov/Data/CWHR)

<https://www.wildlife.ca.gov/Data/CWHR>

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<https://www.wildlife.ca.gov/Data/CWHR>

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Tree ID	objctid	DBH	Species	ScientificName	tree health	NativeTree	Height	City Private	Tree ID	objctid	DBH	Species	ScientificName	tree health	NativeTree	Height	City Private	Tree ID	objctid	DBH	Species	ScientificName	tree health	NativeTree	Height	City Private	
1	3	25	Indian Laurel Fig	Ficus microcarpa	Good	No	32	City	40	42	54	Brazilian Pepper Tree	Schinus terbinthifolius	Good	No	18	Private	81	83	6	London Plane Tree	Plantanus x hispanica	Poor	No	18	Private	
2	4	16	Indian Laurel Fig	Ficus microcarpa	Good	No	32	City	41	43	40	Tasmanian Blue Gum	Eucalyptus globulus	Good	No	30	Private	82	84	6	London Plane Tree	Plantanus x hispanica	Poor	No	18	Private	
3	5	17	Indian Laurel Fig	Ficus microcarpa	Good	No	32	City	43	44	65	Tasmanian Blue Gum	Eucalyptus globulus	Good	No	30	Private	83	85	6	London Plane Tree	Plantanus x hispanica	Poor	No	18	Private	
4	6	25	Indian Laurel Fig	Ficus microcarpa	Fair	No	25	City	43	45	13	Unknown	Pinus spp	Fair	No	20	City	84	86	4	London Plane Tree	Plantanus x hispanica	Poor	No	15	Private	
5	7	8	Queensland Pittosporum	Pittosporum rhombifolium	Fair	No	28	Private 3820 W 102 Street	44	46	24	Tasmanian Blue Gum	Eucalyptus globulus	Good	No	50	City	85	87	3	London Plane Tree	Plantanus x hispanica	Poor	No	15	Private	
6	8	6	Acaciaranda	Jacaranda mimosaefolia	Fair	No	25	Private 3820 W 102 Street	45	47	18	Tasmanian Blue Gum	Eucalyptus globulus	Good	No	40	City	86	88	4	London Plane Tree	Plantanus x hispanica	Poor	No	15	Private	
7	9	7	Jacaranda	Jacaranda mimosaefolia	Fair	No	27	Private 3820 W 102 Street	46	48	11	Unknown	Pinus spp	Fair	No	20	City	87	89	5	London Plane Tree	Plantanus x hispanica	Poor	No	20	Private	
8	10	28	White Ironbark	Eucalyptus leucophylla	Poor	No	35	Private 3820 W 102 Street	47	49	25	Tasmanian Blue Gum	Eucalyptus globulus	Good	No	65	City	88	90	5	London Plane Tree	Plantanus x hispanica	Poor	No	15	Private	
9	11	14	Queensland Pittosporum	Pittosporum rhombifolium	Poor	No	18	Private 3820 W 102 Street	48	50	22	Queensland Pittosporum	Pittosporum rhombifolium	Good	No	25	City	89	91	5	London Plane Tree	Plantanus x hispanica	Poor	No	15	Private	
10	12	9	Unknown Pine Type	Pinus spp	Fair	No	45	Private 3820 W 102 Street	49	51	24	Flora Silk Tree	Pinus spp	Fair	No	20	City	90	92	3	Queensland Pittosporum	Pittosporum rhombifolium	Poor	No	15	Private	
11	13	14.5	Unknown Pine Type	Pinus spp	Fair	No	55	Private 3820 W 102 Street	50	52	3	Queensland Pittosporum	Pittosporum rhombifolium	Fair	No	15	Private	91	93	17	Queensland Pittosporum	Pittosporum rhombifolium	Poor	No	20	City	
12	14	17	Unknown Pine Type	Pinus spp	Poor	No	55	Private 3820 W 102 Street	51	53	3	Queensland Pittosporum	Pittosporum rhombifolium	Poor	No	13	Private	92	94	25	Bush Eucalyptus	Eucalyptus camaldulensis	Fair	No	25	Private	
13	15	18	London Plane Tree	Plantanus x hispanica	Fair	No	35	Private 3820 W 102 Street	52	54	26	Silver Dollar Gum	Eucalyptus polyanthus	Fair	No	30	City	93	95	4	Queensland Pittosporum	Pittosporum rhombifolium	Fair	No	15	City	
14	16	3	London Plane Tree	Plantanus x hispanica	Fair	No	18	Private 3820 W 102 Street	53	55	4	Brazilian Pepper Tree	Schinus terbinthifolius	Fair	No	15	Private	94	96	16	Queensland Pittosporum	Pittosporum rhombifolium	Fair	No	20	City	
15	17	5	Queensland Pittosporum	Pittosporum rhombifolia	Poor	No	18	Private 3820 W 102 Street	54	56	5	Guava	Psidium Guava	Good	No	15	Private	95	97	14	Queensland Pittosporum	Pittosporum rhombifolium	Fair	No	20	City	
16	18	32	White Ironbark	Eucalyptus Leucophylla	Good	No	50	Private 3820 W 102 Street	55	57	9	King Palm	Archontophora cunninghamiana	Good	No	25	Private	96	98	36	Unknown Tree	Unknown Tree	Poor	No	25	Private	
17	19	28	White Ironbark	Eucalyptus Leucophylla	Good	No	45	Private 3820 W 102 Street	56	58	11	King Palm	Archontophora cunninghamiana	Good	No	25	Private	97	99	7	Lequist	Erodrya japonica	Fair	No	20	Private	
18	20	20	Tree of Heaven	Ailanthus altissima	Good	No	60	Tree of Heaven	57	59	10	King Palm	Archontophora cunninghamiana	Good	No	25	Private	98	100	10	Tree of Heaven	Magnolia	Fair	No	20	Private	
19	21	50	Giant Yucca	Yucca elephantipes	Good	No	15	Private	58	60	9	King Palm	Archontophora cunninghamiana	Good	No	25	Private	99	101	24	Brazilian Pepper Tree	Schinus terbinthifolius	Good	No	28	City	
20	22	50	Giant Yucca	Yucca elephantipes	Good	No	15	Private	59	61	10	King Palm	Archontophora cunninghamiana	Good	No	25	Private	100	101	12	Unknown	Unknown	Good	No	20	Private	
21	23	3	Brazilian Pepper Tree	Schinus terbinthifolius	Good	No	62	63	62	63	11	King Palm	Archontophora cunninghamiana	Good	No	25	Private	102	103	10	Queen Palm	Eryxos canarozoffia	Good	No	20	Private	
22	24	40	Giant Yucca	Yucca elephantipes	Good	No	15	Private	61	63	12	King Palm	Archontophora cunninghamiana	Good	No	25	Private	102	103	16	Unknown	Unknown	Good	No	20	City	
23	25	28	Brazilian Pepper Tree	Schinus terbinthifolius	Good	No	25	Private	62	64	4	King Palm	Archontophora cunninghamiana	Good	No	25	Private	103	104	27	Brazilian Pepper Tree	Schinus terbinthifolius	Good	No	20	City	
24	26	4	Giant Yucca	Yucca elephantipes	Fair	No	20	Private	63	65	13	King Palm	Archontophora cunninghamiana	Good	No	20	Private	104	105	38	Canary Palm	Phoenix canariensis	Good	No	50	Private	
25	27	24	Tasmanian Blue Gum	Eucalyptus globulus	Good	No	66	14	King Palm	66	14	King Palm	Archontophora cunninghamiana	Good	No	25	Private	105	106	26	Brazilian Pepper Tree	Schinus terbinthifolius	Good	No	15	City	
26	28	31	Tasmanian Blue Gum	Eucalyptus globulus	Good	No	60	Private	65	67	12	King Palm	Archontophora cunninghamiana	Good	No	25	Private	106	107	29	Tasmanian Blue Gum	Eucalyptus globulus	Good	No	45	City	
27	29	16	Tasmanian Blue Gum	Eucalyptus globulus	Good	No	30	Private	66	68	11	King Palm	Archontophora cunninghamiana	Good	No	25	Private	107	108	16	Brazilian Pepper Tree	Schinus terbinthifolius	Good	No	18	City	
28	30	13	Tasmanian Blue Gum	Eucalyptus globulus	Good	No	25	Private	67	69	12	King Palm	Archontophora cunninghamiana	Good	No	25	Private	108	109	24	Divi Divi	Europeria	Fair	No	25	Private	
29	31	25	Tasmanian Blue Gum	Eucalyptus globulus	Good	No	35	Private	68	70	10	King Palm	Archontophora cunninghamiana	Good	No	25	Private	109	110	26	Canary Palm	Phoenix canariensis	Good	No	26	Private	
30	32	32	White Ironbark	Eucalyptus Leucophylla	Good	No	30	Private	69	71	11	King Palm	Archontophora cunninghamiana	Good	No	25	Private										
31	33	21	Peruvian Pepper Tree	Schinus molle	Good	No	25	Private	70	72	12	King Palm	Archontophora cunninghamiana	Good	No	25	Private										
32	34	5	Italian cypress	Cupressus sempervirens	Good	No	25	Private	71	73	11	King Palm	Archontophora cunninghamiana	Good	No	25	Private										
33	35	4	Italian cypress	Cupressus sempervirens	Good	No	23	Private	72	74	12	King Palm	Archontophora cunninghamiana	Good	No	25	Private										
34	36	16	Peruvian Pepper Tree	Schinus molle	Poor	No	20	Private	73	75	12	King Palm	Archontophora cunninghamiana	Good	No	25	Private										
35	37	10	Tasmanian Blue Gum	Eucalyptus globulus	Fair	No	40	Private	74	76	26	Queensland Pittosporum	Pittosporum rhombifolium	Good	No	23	City										
36	38	38	Peruvian Pepper Tree	Schinus molle	Good	No	33	Private	75	77	28	Mexican Fan Palm	Washingtonia robusta	Poor	No	15	Private										
37	39	30	London Plane Tree	Plantanus x hispanica	Fair	No	45	Private	76	78	12	London Plane Tree	Plantanus x hispanica	Good	No	25	Private										
38	40	20	Coast live oak	Quercus agrifolia	Good	Yes	22	City	77	79	9	London Plane Tree	Plantanus x hispanica	Fair	No	20	Private										
39	41	8	Coast live oak	Quercus agrifolia	Good	No	15	City	78	80	11	London Plane Tree	Plantanus x hispanica	Fair	No	15	Private										
40	42	54	Brazilian Pepper Tree	Schinus terbinthifolius	Good	No	18	Private	79	81	5	London Plane Tree	Plantanus x hispanica	Fair	No	20	Private										
...	80	82	4	London Plane Tree	Plantanus x hispanica	Poor	No	15	Private										

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PROJECT NUMBER
60545923

SHEET TITLE
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TREE SURVEY MAP

SHEET NUMBER
L-006 A

