

**Appendix C:
Biological Resources Supporting Information**

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Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad (Montara Mountain (3712254) OR San Mateo (3712253) OR Hunters Point (3712263) OR Oakland West (3712273) OR San Francisco North (3712274) OR Point Bonita (3712275) OR San Francisco South (3712264))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Acanthomintha duttonii</i> San Mateo thorn-mint	PDLAM01040	Endangered	Endangered	G1	S1	1B.1
<i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
<i>Adela oplerella</i> Opler's longhorn moth	IILEE0G040	None	None	G2	S2	
<i>Agrostis blasdalei</i> Blasdale's bent grass	PMPOA04060	None	None	G2	S2	1B.2
<i>Allium peninsulare var. franciscanum</i> Franciscan onion	PMLIL021R1	None	None	G5T2	S2	1B.2
<i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
<i>Amsinckia lunaris</i> bent-flowered fiddleneck	PDBOR01070	None	None	G3	S3	1B.2
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G4	S3	SSC
<i>Arctostaphylos franciscana</i> Franciscan manzanita	PDERI040J3	Endangered	None	GHC	S1	1B.1
<i>Arctostaphylos imbricata</i> San Bruno Mountain manzanita	PDERI040L0	None	Endangered	G1	S1	1B.1
<i>Arctostaphylos montana ssp. ravenii</i> Presidio manzanita	PDERI040J2	Endangered	Endangered	G3T1	S1	1B.1
<i>Arctostaphylos montaraensis</i> Montara manzanita	PDERI042W0	None	None	G1	S1	1B.2
<i>Arctostaphylos pacifica</i> Pacific manzanita	PDERI040Z0	None	Endangered	G1	S1	1B.1
<i>Arctostaphylos regismontana</i> Kings Mountain manzanita	PDERI041C0	None	None	G2	S2	1B.2
<i>Arenaria paludicola</i> marsh sandwort	PDCAR040L0	Endangered	Endangered	G1	S1	1B.1
<i>Astragalus pycnostachyus var. pycnostachyus</i> coastal marsh milk-vetch	PDFAB0F7B2	None	None	G2T2	S2	1B.2
<i>Astragalus tener var. tener</i> alkali milk-vetch	PDFAB0F8R1	None	None	G2T1	S1	1B.2
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Banksula incredula</i> incredible harvestman	ILARA14100	None	None	G1	S1	



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California Natural Diversity Database



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<i>Bombus caliginosus</i> obscure bumble bee	IIHYM24380	None	None	G4?	S1S2	
<i>Bombus crotchii</i> Crotch bumble bee	IIHYM24480	None	Candidate Endangered	G3G4	S1S2	
<i>Bombus occidentalis</i> western bumble bee	IIHYM24250	None	Candidate Endangered	G2G3	S1	
<i>Brachyramphus marmoratus</i> marbled murrelet	ABNNN06010	Threatened	Endangered	G3	S2	
<i>Caecidotea tomalensis</i> Tomales isopod	ICMAL01220	None	None	G2	S2S3	
<i>Calicina minor</i> Edgewood blind harvestman	ILARA13020	None	None	G1	S1	
<i>Callophrys mossii bayensis</i> San Bruno elfin butterfly	IILEPE2202	Endangered	None	G4T1	S3	
<i>Calystegia purpurata ssp. saxicola</i> coastal bluff morning-glory	PDCON040D2	None	None	G4T2T3	S2S3	1B.2
<i>Carex comosa</i> bristly sedge	PMCYP032Y0	None	None	G5	S2	2B.1
<i>Carex praticola</i> northern meadow sedge	PMCYP03B20	None	None	G5	S2	2B.2
<i>Centromadia parryi ssp. parryi</i> pappose tarplant	PDAST4R0P2	None	None	G3T2	S2	1B.2
<i>Charadrius nivosus nivosus</i> western snowy plover	ABNNB03031	Threatened	None	G3T3	S2	SSC
<i>Chloropyron maritimum ssp. palustre</i> Point Reyes salty bird's-beak	PDSCR0J0C3	None	None	G4?T2	S2	1B.2
<i>Chorizanthe cuspidata var. cuspidata</i> San Francisco Bay spineflower	PDPGN04081	None	None	G2T1	S1	1B.2
<i>Chorizanthe robusta var. robusta</i> robust spineflower	PDPGN040Q2	Endangered	None	G2T1	S1	1B.1
<i>Cicindela hirticollis grvida</i> sandy beach tiger beetle	IICOL02101	None	None	G5T2	S2	
<i>Circus hudsonius</i> northern harrier	ABNKC11011	None	None	G5	S3	SSC
<i>Cirsium andrewsii</i> Franciscan thistle	PDAST2E050	None	None	G3	S3	1B.2
<i>Cirsium fontinale var. fontinale</i> fountain thistle	PDAST2E161	Endangered	Endangered	G2T1	S1	1B.1
<i>Cirsium hydrophilum var. vaseyi</i> Mt. Tamalpais thistle	PDAST2E1G2	None	None	G2T1	S1	1B.2
<i>Cirsium occidentale var. compactum</i> compact cobwebby thistle	PDAST2E1Z1	None	None	G3G4T2	S2	1B.2



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California Natural Diversity Database



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<i>Clarkia franciscana</i> Presidio clarkia	PDONA050H0	Endangered	Endangered	G1	S1	1B.1
<i>Collinsia corymbosa</i> round-headed Chinese-houses	PDSCR0H060	None	None	G1	S1	1B.2
<i>Collinsia multicolor</i> San Francisco collinsia	PDSCR0H0B0	None	None	G2	S2	1B.2
<i>Corynorhinus townsendii</i> Townsend's big-eared bat	AMACC08010	None	None	G4	S2	SSC
<i>Coturnicops noveboracensis</i> yellow rail	ABNME01010	None	None	G4	S1S2	SSC
<i>Danaus plexippus pop. 1</i> monarch - California overwintering population	IILEPP2012	Candidate	None	G4T2T3	S2S3	
<i>Dicamptodon ensatus</i> California giant salamander	AAAAH01020	None	None	G3	S2S3	SSC
<i>Dipodomys venustus venustus</i> Santa Cruz kangaroo rat	AMAFD03042	None	None	G4T1	S1	
<i>Dirca occidentalis</i> western leatherwood	PDTHY03010	None	None	G2	S2	1B.2
<i>Dufourea stagei</i> Stage's dufourine bee	IHYM22010	None	None	G1G2	S1	
<i>Elanus leucurus</i> white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
<i>Emys marmorata</i> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<i>Enhydra lutris nereis</i> southern sea otter	AMAJF09012	Threatened	None	G4T2	S2	FP
<i>Erethizon dorsatum</i> North American porcupine	AMAFJ01010	None	None	G5	S3	
<i>Eriophyllum latilobum</i> San Mateo woolly sunflower	PDAST3N060	Endangered	Endangered	G1	S1	1B.1
<i>Eucyclogobius newberryi</i> tidewater goby	AFCQN04010	Endangered	None	G3	S3	
<i>Eumetopias jubatus</i> Steller (=northern) sea-lion	AMAJC03010	Delisted	None	G3	S2	
<i>Euphydryas editha bayensis</i> Bay checkerspot butterfly	IILEPK4055	Threatened	None	G5T1	S1	
<i>Extriplex joaquinana</i> San Joaquin spearscale	PDCHE041F3	None	None	G2	S2	1B.2
<i>Falco columbarius</i> merlin	ABNKD06030	None	None	G5	S3S4	WL
<i>Falco peregrinus anatum</i> American peregrine falcon	ABNKD06071	Delisted	Delisted	G4T4	S3S4	FP



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<i>Fritillaria biflora</i> var. <i>ineziana</i> Hillsborough chocolate lily	PMLIL0V0M1	None	None	G3G4T1	S1	1B.1
<i>Fritillaria lanceolata</i> var. <i>tristulis</i> Marin checker lily	PMLIL0V0P1	None	None	G5T2	S2	1B.1
<i>Fritillaria liliacea</i> fragrant fritillary	PMLIL0V0C0	None	None	G2	S2	1B.2
<i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat	ABPBX1201A	None	None	G5T3	S3	SSC
<i>Gilia capitata</i> ssp. <i>chamissonis</i> blue coast gilia	PDPLM040B3	None	None	G5T2	S2	1B.1
<i>Gilia millefoliata</i> dark-eyed gilia	PDPLM04130	None	None	G2	S2	1B.2
<i>Gonidea angulata</i> western ridged mussel	IMBIV19010	None	None	G3	S1S2	
<i>Grindelia hirsutula</i> var. <i>maritima</i> San Francisco gumplant	PDAST470D3	None	None	G5T1Q	S1	3.2
<i>Helianthella castanea</i> Diablo helianthella	PDAST4M020	None	None	G2	S2	1B.2
<i>Hemizonia congesta</i> ssp. <i>congesta</i> congested-headed hayfield tarplant	PDAST4R065	None	None	G5T2	S2	1B.2
<i>Hesperevax sparsiflora</i> var. <i>brevifolia</i> short-leaved evax	PDASTE5011	None	None	G4T3	S3	1B.2
<i>Hesperolinon congestum</i> Marin western flax	PDLIN01060	Threatened	Threatened	G1	S1	1B.1
<i>Heteranthera dubia</i> water star-grass	PMPON03010	None	None	G5	S2	2B.2
<i>Holocarpha macradenia</i> Santa Cruz tarplant	PDAST4X020	Threatened	Endangered	G1	S1	1B.1
<i>Horkelia cuneata</i> var. <i>sericea</i> Kellogg's horkelia	PDROS0W043	None	None	G4T1?	S1?	1B.1
<i>Horkelia marinensis</i> Point Reyes horkelia	PDROS0W0B0	None	None	G2	S2	1B.2
<i>Hydrochara rickseckeri</i> Ricksecker's water scavenger beetle	IICOL5V010	None	None	G2?	S2?	
<i>Hydroporus leechi</i> Leech's skyline diving beetle	IICOL55040	None	None	G1?	S1?	
<i>Hypogymnia schizidiata</i> island tube lichen	NLT0032640	None	None	G2G3	S2	1B.3
<i>Ischnura gemina</i> San Francisco forktail damselfly	IIODO72010	None	None	G2	S2	
<i>Lasiurus blossevillii</i> western red bat	AMACC05060	None	None	G4	S3	SSC



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California Natural Diversity Database



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<i>Lasiurus cinereus</i> hoary bat	AMACC05030	None	None	G3G4	S4	
<i>Lasthenia californica ssp. macrantha</i> perennial goldfields	PDAST5L0C5	None	None	G3T2	S2	1B.2
<i>Laterallus jamaicensis coturniculus</i> California black rail	ABNME03041	None	Threatened	G3G4T1	S1	FP
<i>Layia carnosa</i> beach layia	PDAST5N010	Endangered	Endangered	G2	S2	1B.1
<i>Leptosiphon croceus</i> coast yellow leptosiphon	PDPLM09170	None	Endangered	G1	S1	1B.1
<i>Leptosiphon rosaceus</i> rose leptosiphon	PDPLM09180	None	None	G1	S1	1B.1
<i>Lessingia arachnoidea</i> Crystal Springs lessingia	PDAST5S0C0	None	None	G2	S2	1B.2
<i>Lessingia germanorum</i> San Francisco lessingia	PDAST5S010	Endangered	Endangered	G1	S1	1B.1
<i>Lichnanthe ursina</i> bumblebee scarab beetle	IICOL67020	None	None	G2	S2	
<i>Limnanthes douglasii ssp. ornduffii</i> Ornduff's meadowfoam	PDLIM02039	None	None	G4T1	S1	1B.1
<i>Malacothamnus arcuatus</i> arcuate bush-mallow	PDMAL0Q0E0	None	None	G2Q	S2	1B.2
<i>Melospiza melodia pusillula</i> Alameda song sparrow	ABPBXA301S	None	None	G5T2?	S2S3	SSC
<i>Melospiza melodia samuelis</i> San Pablo song sparrow	ABPBXA301W	None	None	G5T2	S2	SSC
<i>Microseris paludosa</i> marsh microseris	PDAST6E0D0	None	None	G2	S2	1B.2
<i>Monardella sinuata ssp. nigrescens</i> northern curly-leaved monardella	PDLAM18162	None	None	G3T2	S2	1B.2
<i>Monolopia gracilens</i> woodland woollythreads	PDAST6G010	None	None	G3	S3	1B.2
<i>Mylopharodon conocephalus</i> hardhead	AFCJB25010	None	None	G3	S3	SSC
<i>Myotis thysanodes</i> fringed myotis	AMACC01090	None	None	G4	S3	
<i>Neotoma fuscipes annectens</i> San Francisco dusky-footed woodrat	AMAFF08082	None	None	G5T2T3	S2S3	SSC
<i>Northern Coastal Salt Marsh</i> Northern Coastal Salt Marsh	CTT52110CA	None	None	G3	S3.2	
<i>Northern Maritime Chaparral</i> Northern Maritime Chaparral	CTT37C10CA	None	None	G1	S1.2	



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<i>Nyctinomops macrotis</i> big free-tailed bat	AMACD04020	None	None	G5	S3	SSC
<i>Oncorhynchus kisutch pop. 4</i> coho salmon - central California coast ESU	AFCHA02034	Endangered	Endangered	G5T2T3Q	S2	
<i>Oncorhynchus mykiss irideus pop. 8</i> steelhead - central California coast DPS	AFCHA0209G	Threatened	None	G5T2T3Q	S2S3	
<i>Pentachaeta bellidiflora</i> white-rayed pentachaeta	PDAST6X030	Endangered	Endangered	G1	S1	1B.1
<i>Phalacrocorax auritus</i> double-crested cormorant	ABNFD01020	None	None	G5	S4	WL
<i>Plagiobothrys chorisianus var. chorisianus</i> Choris' popcornflower	PDBOR0V061	None	None	G3T1Q	S1	1B.2
<i>Plagiobothrys diffusus</i> San Francisco popcornflower	PDBOR0V080	None	Endangered	G1Q	S1	1B.1
<i>Plagiobothrys glaber</i> hairless popcornflower	PDBOR0V0B0	None	None	GX	SX	1A
<i>Plebejus icarioides missionensis</i> Mission blue butterfly	IILEPG801A	Endangered	None	G5T1	S1	
<i>Polemonium carneum</i> Oregon polemonium	PDPLM0E050	None	None	G3G4	S2	2B.2
<i>Polygonum marinense</i> Marin knotweed	PDPGN0L1C0	None	None	G2Q	S2	3.1
<i>Potentilla hickmanii</i> Hickman's cinquefoil	PDROS1B370	Endangered	Endangered	G1	S1	1B.1
<i>Rallus obsoletus obsoletus</i> California Ridgway's rail	ABNME05011	Endangered	Endangered	G3T1	S1	FP
<i>Rana boylei</i> foothill yellow-legged frog	AAABH01050	None	Endangered	G3	S3	SSC
<i>Rana draytonii</i> California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
<i>Reithrodontomys raviventris</i> salt-marsh harvest mouse	AMAFF02040	Endangered	Endangered	G1G2	S1S2	FP
<i>Riparia riparia</i> bank swallow	ABPAU08010	None	Threatened	G5	S2	
<i>Sanicula maritima</i> adobe sanicle	PDAPI1Z0D0	None	Rare	G2	S2	1B.1
<i>Scapanus latimanus insularis</i> Angel Island mole	AMABB02032	None	None	G5T1	SH	
<i>Scapanus latimanus parvus</i> Alameda Island mole	AMABB02031	None	None	G5T1Q	SH	SSC
<i>Senecio aphanactis</i> chaparral ragwort	PDAST8H060	None	None	G3	S2	2B.2



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Serpentine Bunchgrass Serpentine Bunchgrass	CTT42130CA	None	None	G2	S2.2	
Silene scouleri ssp. scouleri Scouler's catchfly	PDCAR0U1MC	None	None	G5T4T5	S2S3	2B.2
Silene verecunda ssp. verecunda San Francisco campion	PDCAR0U213	None	None	G5T1	S1	1B.2
Speyeria callippe callippe callippe silverspot butterfly	IILEPJ6091	Endangered	None	G5T1	S1	
Speyeria zerene myrtleae Myrtle's silverspot butterfly	IILEPJ608C	Endangered	None	G5T1	S1	
Spirinchus thaleichthys longfin smelt	AFCHB03010	Candidate	Threatened	G5	S1	
Stebbinsoseris decipiens Santa Cruz microseris	PDAST6E050	None	None	G2	S2	1B.2
Sternula antillarum browni California least tern	ABNNM08103	Endangered	Endangered	G4T2T3Q	S2	FP
Suaeda californica California seablite	PDCHE0P020	Endangered	None	G1	S1	1B.1
Taxidea taxus American badger	AMAJF04010	None	None	G5	S3	SSC
Thamnophis sirtalis tetrataenia San Francisco gartersnake	ARADB3613B	Endangered	Endangered	G5T2Q	S2	FP
Trachusa gummifera San Francisco Bay Area leaf-cutter bee	IIHYM80010	None	None	G1	S1	
Trifolium amoenum two-fork clover	PDFAB40040	Endangered	None	G1	S1	1B.1
Trifolium hydrophilum saline clover	PDFAB400R5	None	None	G2	S2	1B.2
Triphysaria floribunda San Francisco owl's-clover	PDSCR2T010	None	None	G2?	S2?	1B.2
Triquetrella californica coastal triquetrella	NBMUS7S010	None	None	G2	S2	1B.2
Tryonia imitator mimic tryonia (=California brackishwater snail)	IMGASJ7040	None	None	G2	S2	
Valley Needlegrass Grassland Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	
Vespericola marinensis Marin hesperian	IMGASA4140	None	None	G2	S2	
Viburnum ellipticum oval-leaved viburnum	PDCPR07080	None	None	G4G5	S3?	2B.3
Zapus trinotatus orarius Point Reyes jumping mouse	AMAFH01031	None	None	G5T1T3Q	S1S3	SSC

Record Count: 145

Search Results

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94 matches found. Click on scientific name for details

Search Criteria: Quad is one of [3712264,3712274,3712275,3712273,3712263,3712253,3712254][Scientific Name](#)[Common Name](#)[Family](#)[Lifeform](#)[Fed List](#)[State List](#)[Global Rank](#)[State Rank](#)[CA Rare Plant Rank](#)[General Habitats](#)[Micro Habitats](#)[Lowest Elevation](#)[Highest Elevation](#)[Blooming Period](#)[CA Endemic](#)[Date Added](#)[Photo](#)

Search:

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	FED LIST	STATE LIST	CA RARE PLANT RANK	GENERAL HABITATS	MICRO HABITATS	LOWEST ELEVATION	HIGHEST ELEVATION	BLOOMING PERIOD
Acanthomintha duttonii	San Mateo thorn-mint	Lamiaceae	annual herb	FE	CE	1B.1	Chaparral, Valley and foothill grassland	Serpentine	50	300	Apr-Jun
Agrostis blasdalei	Blasdale's bent grass	Poaceae	perennial rhizomatous herb	None	None	1B.2	Coastal bluff scrub, Coastal dunes, Coastal prairie		0	150	May-Jul
Allium peninsulare var. franciscanum	Franciscan onion	Alliaceae	perennial bulbiferous herb	None	None	1B.2	Cismontane woodland, Valley and foothill grassland	Clay, Serpentine (often), Volcanic	52	305	(Apr)May-Jun
Amsinckia lunaris	bent-flowered fiddleneck	Boraginaceae	annual herb	None	None	1B.2	Cismontane woodland, Coastal bluff scrub, Valley and foothill grassland		3	500	Mar-Jun
Arabis blepharophylla	coast rockcress	Brassicaceae	perennial herb	None	None	4.3	Broadleafed upland forest, Coastal bluff scrub, Coastal prairie, Coastal scrub	Rocky	3	1100	Feb-May

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	FED LIST	STATE LIST	CA RARE PLANT RANK	GENERAL HABITATS	MICRO HABITATS	LOWEST ELEVATION	HIGHEST ELEVATION	BLOOMING PERIOD
<i>Arctostaphylos franciscana</i>	Franciscan manzanita	Ericaceae	perennial evergreen shrub	FE	None	1B.1	Coastal scrub		60	300	Feb-Apr
<i>Arctostaphylos imbricata</i>	San Bruno Mountain manzanita	Ericaceae	perennial evergreen shrub	None	CE	1B.1	Chaparral, Coastal scrub		275	370	Feb-May
<i>Arctostaphylos montana ssp. ravenii</i>	Presidio manzanita	Ericaceae	perennial evergreen shrub	FE	CE	1B.1	Chaparral, Coastal prairie, Coastal scrub		45	215	Feb-Mar
<i>Arctostaphylos montaraensis</i>	Montara manzanita	Ericaceae	perennial evergreen shrub	None	None	1B.2	Chaparral, Coastal scrub		80	500	Jan-Mar
<i>Arctostaphylos pacifica</i>	Pacific manzanita	Ericaceae	evergreen shrub	None	CE	1B.1	Chaparral, Coastal scrub		330	330	Feb-Apr
<i>Arctostaphylos regismontana</i>	Kings Mountain manzanita	Ericaceae	perennial evergreen shrub	None	None	1B.2	Broadleafed upland forest, Chaparral, North Coast coniferous forest		305	730	Dec-Apr
<i>Arenaria paludicola</i>	marsh sandwort	Caryophyllaceae	perennial stoloniferous herb	FE	CE	1B.1	Marshes and swamps		3	170	May-Aug
<i>Aspidotis carlotta-halliae</i>	Carlotta Hall's lace fern	Pteridaceae	perennial rhizomatous herb	None	None	4.2	Chaparral, Cismontane woodland		100	1400	Jan-Dec
<i>Astragalus nuttallii var. nuttallii</i>	ocean bluff milk-vetch	Fabaceae	perennial herb	None	None	4.2	Coastal bluff scrub, Coastal dunes		3	120	Jan-Nov
<i>Astragalus pycnostachyus var. pycnostachyus</i>	coastal marsh milk-vetch	Fabaceae	perennial herb	None	None	1B.2	Coastal dunes, Coastal scrub, Marshes and swamps		0	30	(Apr)Jun-Oct
<i>Astragalus tener var. tener</i>	alkali milk-vetch	Fabaceae	annual herb	None	None	1B.2	Playas, Valley and foothill grassland, Vernal pools		1	60	Mar-Jun

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	FED LIST	STATE LIST	CA	GENERAL HABITATS	MICRO HABITATS	LOWEST ELEVATION	HIGHEST ELEVATION	BLOOMING PERIOD
						RARE RANK					
<i>Calochortus umbellatus</i>	Oakland star-tulip	Liliaceae	perennial bulbiferous herb	None	None	4.2	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland		100	700	Mar-May
<i>Calochortus uniflorus</i>	pink star-tulip	Liliaceae	perennial bulbiferous herb	None	None	4.2	Coastal prairie, Coastal scrub, Meadows and seeps, North Coast coniferous forest		10	1070	Apr-Jun
<i>Calystegia purpurata ssp. saxicola</i>	coastal bluff morning-glory	Convolvulaceae	perennial herb	None	None	1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, North Coast coniferous forest		0	105	(Mar)Apr-Sep
<i>Carex comosa</i>	bristly sedge	Cyperaceae	perennial rhizomatous herb	None	None	2B.1	Coastal prairie, Marshes and swamps, Valley and foothill grassland		0	625	May-Sep
<i>Carex praticola</i>	northern meadow sedge	Cyperaceae	perennial herb	None	None	2B.2	Meadows and seeps		0	3200	May-Jul

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	FED LIST	STATE LIST	CA RARE PLANT RANK	GENERAL HABITATS	MICRO HABITATS	LOWEST ELEVATION	HIGHEST ELEVATION	BLOOMING PERIOD
<i>Castilleja</i> <i>ambigua</i> var. <i>ambigua</i>	johnny-nip	Orobanchaceae	annual herb (hemiparasitic)	None	None	4.2	Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps, Valley and foothill grassland, Vernal pools		0	435	Mar-Aug
<i>Centromadia</i> <i>parryi</i> ssp. <i>parryi</i>	pappose tarplant	Asteraceae	annual herb	None	None	1B.2	Chaparral, Coastal prairie, Marshes and swamps, Meadows and seeps, Valley and foothill grassland		0	420	May-Nov
<i>Chloropyron</i> <i>maritimum</i> ssp. <i>palustre</i>	Point Reyes salty bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	None	None	1B.2	Marshes and swamps		0	10	Jun-Oct
<i>Chorizanthe</i> <i>cuspidata</i> var. <i>cuspidata</i>	San Francisco Bay spineflower	Polygonaceae	annual herb	None	None	1B.2	Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub		3	215	Apr-Jul(Aug)
<i>Chorizanthe</i> <i>robusta</i> var. <i>robusta</i>	robust spineflower	Polygonaceae	annual herb	FE	None	1B.1	Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub		3	300	Apr-Sep

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	FED LIST	STATE LIST	CA RARE PLANT RANK	GENERAL HABITATS	MICRO HABITATS	LOWEST ELEVATION	HIGHEST ELEVATION	BLOOMING PERIOD
<i>Cirsium andrewsii</i>	Franciscan thistle	Asteraceae	perennial herb	None	None	1B.2	Broadleafed upland forest, Coastal bluff scrub, Coastal prairie, Coastal scrub		0	150	Mar-Jul
<i>Cirsium fontinale</i> var. <i>fontinale</i>	fountain thistle	Asteraceae	perennial herb	FE	CE	1B.1	Chaparral, Cismontane woodland, Meadows and seeps, Valley and foothill grassland		45	175	(Apr)May-Oct
<i>Cirsium hydrophilum</i> var. <i>vaseyi</i>	Mt. Tamalpais thistle	Asteraceae	perennial herb	None	None	1B.2	Broadleafed upland forest, Chaparral, Meadows and seeps		240	620	May-Aug
<i>Cirsium occidentale</i> var. <i>compactum</i>	compact cobwebby thistle	Asteraceae	perennial herb	None	None	1B.2	Chaparral, Coastal dunes, Coastal prairie, Coastal scrub		5	150	Apr-Jun
<i>Clarkia franciscana</i>	Presidio clarkia	Onagraceae	annual herb	FE	CE	1B.1	Coastal scrub, Valley and foothill grassland		25	335	May-Jul
<i>Collinsia corymbosa</i>	round-headed Chinese-houses	Plantaginaceae	annual herb	None	None	1B.2	Coastal dunes		0	20	Apr-Jun
<i>Collinsia multicolor</i>	San Francisco collinsia	Plantaginaceae	annual herb	None	None	1B.2	Closed-cone coniferous forest, Coastal scrub		30	275	(Feb)Mar-May

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	FED LIST	STATE LIST	CA RARE PLANT RANK	GENERAL HABITATS	MICRO HABITATS	LOWEST ELEVATION	HIGHEST ELEVATION	BLOOMING PERIOD
<i>Cypripedium fasciculatum</i>	clustered lady's-slipper	Orchidaceae	perennial rhizomatous herb	None	None	4.2	Lower montane coniferous forest, North Coast coniferous forest		100	2435	Mar-Aug
<i>Dirca occidentalis</i>	western leatherwood	Thymelaeaceae	perennial deciduous shrub	None	None	1B.2	Broadleafed upland forest, Chaparral, Cismontane woodland, Closed- cone coniferous forest, North Coast coniferous forest, Riparian forest, Riparian woodland		25	425	Jan- Mar(Apr)
<i>Elymus californicus</i>	California bottle-brush grass	Poaceae	perennial herb	None	None	4.3	Broadleafed upland forest, Cismontane woodland, North Coast coniferous forest, Riparian woodland		15	470	May- Aug(Nov)
<i>Equisetum palustre</i>	marsh horsetail	Equisetaceae	perennial rhizomatous herb	None	None	3	Marshes and swamps		45	1000	Unk
<i>Eriophyllum latilobum</i>	San Mateo woolly sunflower	Asteraceae	perennial herb	FE	CE	1B.1	Cismontane woodland, Coastal scrub, Lower montane coniferous forest		45	330	May-Jun

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	FED LIST	STATE LIST	CA	GENERAL HABITATS	MICRO HABITATS	LOWEST ELEVATION	HIGHEST ELEVATION	BLOOMING PERIOD
						RARE PLANT RANK					
<i>Erysimum franciscanum</i>	San Francisco wallflower	Brassicaceae	perennial herb	None	None	4.2	Chaparral, Coastal dunes, Coastal scrub, Valley and foothill grassland		0	550	Mar-Jun
<i>Erythranthe laciniata</i>	cut-leaved monkeyflower	Phymaceae	annual herb	None	None	4.3	Chaparral, Lower montane coniferous forest, Upper montane coniferous forest		490	2650	Apr-Jul
<i>Extriplex joaquinana</i>	San Joaquin spearscale	Chenopodiaceae	annual herb	None	None	1B.2	Chenopod scrub, Meadows and seeps, Playas, Valley and foothill grassland		1	835	Apr-Oct
<i>Fritillaria biflora</i> var. <i>ineziana</i>	Hillsborough chocolate lily	Liliaceae	perennial bulbiferous herb	None	None	1B.1	Cismontane woodland, Valley and foothill grassland		150	150	Mar-Apr
<i>Fritillaria lanceolata</i> var. <i>tristulis</i>	Marin checker lily	Liliaceae	perennial bulbiferous herb	None	None	1B.1	Coastal bluff scrub, Coastal prairie, Coastal scrub		15	150	Feb-May
<i>Fritillaria liliacea</i>	fragrant fritillary	Liliaceae	perennial bulbiferous herb	None	None	1B.2	Cismontane woodland, Coastal prairie, Coastal scrub, Valley and foothill grassland		3	410	Feb-Apr
<i>Gilia capitata</i> ssp. <i>chamissonis</i>	blue coast gilia	Polemoniaceae	annual herb	None	None	1B.1	Coastal dunes, Coastal scrub		2	200	Apr-Jul

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	FED LIST	STATE LIST	CA RARE PLANT RANK	GENERAL HABITATS	MICRO HABITATS	LOWEST ELEVATION	HIGHEST ELEVATION	BLOOMING PERIOD
<i>Gilia millefoliata</i>	dark-eyed gilia	Polemoniaceae	annual herb	None	None	1B.2	Coastal dunes		2	30	Apr-Jul
<i>Grindelia hirsutula</i> var. <i>maritima</i>	San Francisco gumplant	Asteraceae	perennial herb	None	None	3.2	Coastal bluff scrub, Coastal scrub, Valley and foothill grassland		15	400	Jun-Sep
<i>Helianthella castanea</i>	Diablo helianthella	Asteraceae	perennial herb	None	None	1B.2	Broadleaved upland forest, Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland, Valley and foothill grassland	Azonal soils, Partial Shade (often), Rocky (usually)	60	1300	Mar-Jun
<i>Hemizonia congesta</i> ssp. <i>congesta</i>	congested-headed hayfield tarplant	Asteraceae	annual herb	None	None	1B.2	Valley and foothill grassland		20	560	Apr-Nov
<i>Hesperevax sparsiflora</i> var. <i>brevifolia</i>	short-leaved evax	Asteraceae	annual herb	None	None	1B.2	Coastal bluff scrub, Coastal dunes, Coastal prairie		0	215	Mar-Jun
<i>Hesperolinon congestum</i>	Marin western flax	Linaceae	annual herb	FT	CT	1B.1	Chaparral, Valley and foothill grassland		5	370	Apr-Jul
<i>Heteranthera dubia</i>	water star-grass	Pontederiaceae	perennial herb (aquatic)	None	None	2B.2	Marshes and swamps		30	1495	Jul-Oct
<i>Holocarpha macradenia</i>	Santa Cruz tarplant	Asteraceae	annual herb	FT	CE	1B.1	Coastal prairie, Coastal scrub, Valley and foothill grassland		10	220	Jun-Oct

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	FED LIST	STATE LIST	CA RARE PLANT RANK	GENERAL HABITATS	MICRO HABITATS	LOWEST ELEVATION	HIGHEST ELEVATION	BLOOMING PERIOD
<i>Horkelia cuneata</i> var. <i>sericea</i>	Kellogg's horkelia	Rosaceae	perennial herb	None	None	1B.1	Chaparral, Closed-cone coniferous forest, Coastal dunes, Coastal scrub		10	200	Apr-Sep
<i>Horkelia marinensis</i>	Point Reyes horkelia	Rosaceae	perennial herb	None	None	1B.2	Coastal dunes, Coastal prairie, Coastal scrub		5	755	May-Sep
<i>Hosackia gracilis</i>	harlequin lotus	Fabaceae	perennial rhizomatous herb	None	None	4.2	Broadleafed upland forest, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps, Meadows and seeps, North Coast coniferous forest, Valley and foothill grassland		0	700	Mar-Jul
<i>Hypogymnia schizidiata</i>	island rock lichen	Parmeliaceae	foliose lichen	None	None	1B.3	Chaparral, Closed-cone coniferous forest		360	405	

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<i>Iris longipetala</i>	coast iris	Iridaceae	perennial rhizomatous herb	None	None	4.2	Coastal prairie, Lower montane coniferous forest, Meadows and seeps		0	600	Mar-May(Jun)
<i>Lasthenia californica ssp. macrantha</i>	perennial goldfields	Asteraceae	perennial herb	None	None	1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub		5	520	Jan-Nov
<i>Layia carnosa</i>	beach layia	Asteraceae	annual herb	FE	CE	1B.1	Coastal dunes, Coastal scrub		0	60	Mar-Jul
<i>Leptosiphon ambiguus</i>	serpentine leptosiphon	Polemoniaceae	annual herb	None	None	4.2	Cismontane woodland, Coastal scrub, Valley and foothill grassland		120	1130	Mar-Jun
<i>Leptosiphon croceus</i>	coast yellow leptosiphon	Polemoniaceae	annual herb	None	CE	1B.1	Coastal bluff scrub, Coastal prairie		10	150	Apr-Jun
<i>Leptosiphon grandiflorus</i>	large-flowered leptosiphon	Polemoniaceae	annual herb	None	None	4.2	Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub, Valley and foothill grassland		5	1220	Apr-Aug
<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	Polemoniaceae	annual herb	None	None	4.3	Broadleafed upland forest, Cismontane woodland		170	1500	Apr-Jun

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						RARE RANK					
<i>Leptosiphon rosaceus</i>	rose leptosiphon	Polemoniaceae	annual herb	None	None	1B.1	Coastal bluff scrub		0	100	Apr-Jul
<i>Lessingia arachnoidea</i>	Crystal Springs lessingia	Asteraceae	annual herb	None	None	1B.2	Cismontane woodland, Coastal scrub, Valley and foothill grassland		60	200	Jul-Oct
<i>Lessingia germanorum</i>	San Francisco lessingia	Asteraceae	annual herb	FE	CE	1B.1	Coastal scrub		25	110	(Jun)Jul-Nov
<i>Lessingia hololeuca</i>	woolly-headed lessingia	Asteraceae	annual herb	None	None	3	Broadleafed upland forest, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland		15	305	Jun-Oct
<i>Limnanthes douglasii ssp. ornduffii</i>	Ornduff's meadowfoam	Limnanthaceae	annual herb	None	None	1B.1	Meadows and seeps		10	20	Nov-May
<i>Lupinus arboreus var. eximius</i>	San Mateo tree lupine	Fabaceae	perennial evergreen shrub	None	None	3.2	Chaparral, Coastal scrub		90	550	Apr-Jul
<i>Malacothamnus arcuatus</i>	arcuate bush-mallow	Malvaceae	perennial deciduous shrub	None	None	1B.2	Chaparral, Cismontane woodland		15	355	Apr-Sep
<i>Micropus amphibolus</i>	Mt. Diablo cottonweed	Asteraceae	annual herb	None	None	3.2	Broadleafed upland forest, Chaparral, Cismontane woodland, Valley and foothill grassland		45	825	Mar-May

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<i>Microseris paludosa</i>	marsh microseris	Asteraceae	perennial herb	None	None	1B.2	Cismontane woodland, Closed-cone coniferous forest, Coastal scrub, Valley and foothill grassland		5	355	Apr-Jun(Jul)
<i>Monardella sinuata ssp. nigrescens</i>	northern curly-leaved monardella	Lamiaceae	annual herb	None	None	1B.2	Chaparral, Coastal dunes, Coastal scrub, Lower montane coniferous forest		0	300	(Apr)May-Jul(Aug-Sep)
<i>Monolopia gracilens</i>	woodland woollythreads	Asteraceae	annual herb	None	None	1B.2	Broadleaved upland forest, Chaparral, Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland		100	1200	(Feb)Mar-Jul
<i>Pentachaeta bellidiflora</i>	white-rayed pentachaeta	Asteraceae	annual herb	FE	CE	1B.1	Cismontane woodland, Valley and foothill grassland		35	620	Mar-May
<i>Plagiobothrys chorisianus var. chorisianus</i>	Choris' popcornflower	Boraginaceae	annual herb	None	None	1B.2	Chaparral, Coastal prairie, Coastal scrub		3	160	Mar-Jun
<i>Plagiobothrys diffusus</i>	San Francisco popcornflower	Boraginaceae	annual herb	None	CE	1B.1	Coastal prairie, Valley and foothill grassland		60	360	Mar-Jun

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<i>Plagiobothrys glaber</i>	hairless popcornflower	Boraginaceae	annual herb	None	None	1A	Marshes and swamps, Meadows and seeps		15	180	Mar-May
<i>Polemonium carneum</i>	Oregon polemonium	Polemoniaceae	perennial herb	None	None	2B.2	Coastal prairie, Coastal scrub, Lower montane coniferous forest		0	1830	Apr-Sep
<i>Polygonum marinense</i>	Marin knotweed	Polygonaceae	annual herb	None	None	3.1	Marshes and swamps		0	10	(Apr)May-Aug(Oct)
<i>Potentilla hickmanii</i>	Hickman's cinquefoil	Rosaceae	perennial herb	FE	CE	1B.1	Closed-cone coniferous forest, Coastal bluff scrub, Marshes and swamps, Meadows and seeps		10	149	Apr-Aug
<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	Ranunculaceae	annual herb (aquatic)	None	None	4.2	Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland, Vernal pools		15	470	Feb-May
<i>Sanicula maritima</i>	adobe sanicle	Apiaceae	perennial herb	None	CR	1B.1	Chaparral, Coastal prairie, Meadows and seeps, Valley and foothill grassland		30	240	Feb-May
<i>Senecio aphanactis</i>	chaparral ragwort	Asteraceae	annual herb	None	None	2B.2	Chaparral, Cismontane woodland, Coastal scrub		15	800	Jan-Apr(May)

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<i>Silene scouleri</i> <i>ssp. scouleri</i>	Scouler's catchfly	Caryophyllaceae	perennial herb	None	None	2B.2	Coastal bluff scrub, Coastal prairie, Valley and foothill grassland		0	600	(Mar-May)Jun-Aug(Sep)
<i>Silene verecunda</i> <i>ssp. verecunda</i>	San Francisco campion	Caryophyllaceae	perennial herb	None	None	1B.2	Chaparral, Coastal bluff scrub, Coastal prairie, Coastal scrub, Valley and foothill grassland		30	645	(Feb)Mar-Jul(Aug)
<i>Stebbinsoseris decipiens</i>	Santa Cruz microseris	Asteraceae	annual herb	None	None	1B.2	Broadleafed upland forest, Chaparral, Closed-cone coniferous forest, Coastal prairie, Coastal scrub, Valley and foothill grassland		10	500	Apr-May
<i>Suaeda californica</i>	California seablite	Chenopodiaceae	perennial evergreen shrub	FE	None	1B.1	Marshes and swamps		0	15	Jul-Oct
<i>Trifolium amoenum</i>	two-fork clover	Fabaceae	annual herb	FE	None	1B.1	Coastal bluff scrub, Valley and foothill grassland		5	415	Apr-Jun
<i>Trifolium hydrophilum</i>	saline clover	Fabaceae	annual herb	None	None	1B.2	Marshes and swamps, Valley and foothill grassland, Vernal pools		0	300	Apr-Jun

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	FED LIST	STATE LIST	CA RARE PLANT RANK	GENERAL HABITATS	MICRO HABITATS	LOWEST ELEVATION	HIGHEST ELEVATION	BLOOMING PERIOD
Triphysaria floribunda	San Francisco owl's-clover	Orobanchaceae	annual herb	None	None	1B.2	Coastal prairie, Coastal scrub, Valley and foothill grassland		10	160	Apr-Jun
Triquetrella californica	coastal triquetrella	Pottiaceae	moss	None	None	1B.2	Coastal bluff scrub, Coastal scrub		10	100	
Viburnum ellipticum	oval-leaved viburnum	Adoxaceae	perennial deciduous shrub	None	None	2B.3	Chaparral, Cismontane woodland, Lower montane coniferous forest		215	1400	May-Jun

Showing 1 to 94 of 94 entries

CONTACT US

Send questions and comments to rareplants@cnps.org.



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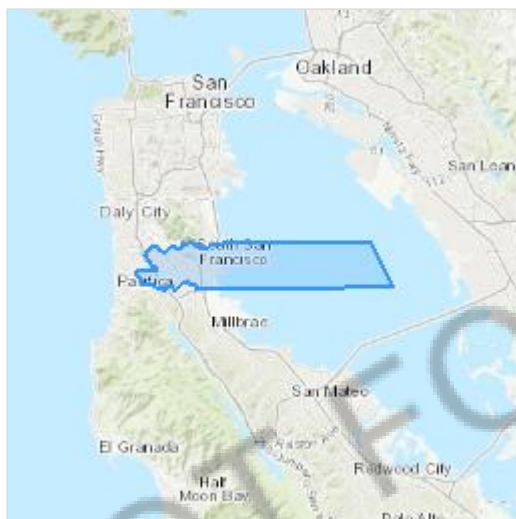
IPaC resource list

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

Alameda and San Mateo counties, California



Local offices

Sacramento Fish And Wildlife Office

☎ (916) 414-6600

📅 (916) 414-6713

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

San Francisco Bay-Delta Fish And Wildlife

☎ (916) 930-5603

📅 (916) 930-5654

650 Capitol Mall

Suite 8-300

Sacramento, CA 95814

[http://kim_squires@fws.gov](mailto:kim_squires@fws.gov)

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. IPaC only shows species that are regulated by USFWS (see FAQ).
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:

Mammals

NAME	STATUS
<p>Salt Marsh Harvest Mouse <i>Reithrodontomys raviventris</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/613</p>	Endangered
<p>Southern Sea Otter <i>Enhydra lutris nereis</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8560</p>	Threatened Marine mammal

Birds

NAME	STATUS
<p>California Clapper Rail <i>Rallus longirostris obsoletus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4240</p>	Endangered
<p>California Least Tern <i>Sterna antillarum browni</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8104</p>	Endangered

Marbled Murrelet *Brachyramphus marmoratus*

Threatened

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/4467>

Western Snowy Plover *Charadrius nivosus nivosus*

Threatened

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/8035>

Yellow-billed Cuckoo *Coccyzus americanus*

Threatened

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/3911>

Reptiles

NAME

STATUS

Alameda Whipsnake (=striped Racer) *Masticophis lateralis euryxanthus*

Threatened

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/5524>

Green Sea Turtle *Chelonia mydas*

Threatened

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/6199>

San Francisco Garter Snake *Thamnophis sirtalis tetrataenia*

Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/5956>

Amphibians

NAME

STATUS

California Red-legged Frog *Rana draytonii*

Threatened

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/2891>

California Tiger Salamander *Ambystoma californiense*

Threatened

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/2076>

Fishes

NAME

STATUS

Delta Smelt *Hypomesus transpacificus*

Threatened

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/321>

Tidewater Goby *Eucyclogobius newberryi*

Endangered

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/57>

Insects

NAME

STATUS

Bay Checkerspot Butterfly *Euphydryas editha bayensis*

Wherever found

There is **final** critical habitat for this species. Your location overlaps the critical habitat.<https://ecos.fws.gov/ecp/species/2320>

Threatened

Callippe Silverspot Butterfly *Speyeria callippe callippe*

Wherever found

There is **proposed** critical habitat for this species. The location of the critical habitat is not available.<https://ecos.fws.gov/ecp/species/3779>

Endangered

Mission Blue Butterfly *Icaricia icarioides missionensis*

Wherever found

There is **proposed** critical habitat for this species. The location of the critical habitat is not available.<https://ecos.fws.gov/ecp/species/6928>

Endangered

San Bruno Elfin Butterfly *Callophrys mossii bayensis*

Wherever found

There is **proposed** critical habitat for this species. The location of the critical habitat is not available.<https://ecos.fws.gov/ecp/species/3394>

Endangered

Flowering Plants

NAME

STATUS

California Seablite *Suaeda californica*

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/6310>

Endangered

Contra Costa Goldfields *Lasthenia conjugens*

Endangered

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/7058>

Franciscan Manzanita *Arctostaphylos franciscana*

Endangered

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/5350>

Presidio Manzanita *Arctostaphylos hookeri* var. *ravenii*

Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/7216>

Robust Spineflower *Chorizanthe robusta* var. *robusta*

Endangered

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/9287>

San Francisco Lessingia *Lessingia germanorum* (=L.g. var. *germanorum*)

Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/8174>

Showy Indian Clover *Trifolium amoenum*

Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/6459>

Sonoma Sunshine *Blennosperma bakeri*

Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/1260>**White-rayed Pentachaeta** *Pentachaeta bellidiflora*

Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/7782>

Critical habitats

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

This location overlaps the critical habitat for the following species:

NAME	TYPE
Bay Checkerspot Butterfly <i>Euphydryas editha bayensis</i> https://ecos.fws.gov/ecp/species/2320#crithab	Final

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>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

Allen's Hummingbird *Selasphorus sasin*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9637>

Breeds Feb 1 to Jul 15

Bald Eagle *Haliaeetus leucocephalus*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1626>

Breeds Jan 1 to Aug 31

Black Oystercatcher *Haematopus bachmani*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9591>

Breeds Apr 15 to Oct 31

Black Scoter *Melanitta nigra*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds elsewhere

Black Skimmer *Rynchops niger*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/5234>

Breeds May 20 to Sep 15

Black Turnstone *Arenaria melanocephala*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Black-vented Shearwater *Puffinus opisthomelas*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Bonaparte's Gull *Chroicocephalus philadelphia*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds elsewhere

Brown Pelican *Pelecanus occidentalis*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/6034>

Breeds Jan 15 to Sep 30

Clark's Grebe *Aechmophorus clarkii*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Jan 1 to Dec 31

Common Loon *Gavia immer*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/4464>

Breeds Apr 15 to Oct 31

Common Murre *Uria aalge*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds Apr 15 to Aug 15

Common Tern *Sterna hirundo*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/4963>

Breeds May 10 to Sep 10

Common Yellowthroat *Geothlypis trichas sinuosa*

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/2084>

Breeds May 20 to Jul 31

Double-crested Cormorant *Phalacrocorax auritus*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/3478>

Breeds Apr 20 to Aug 31

Golden Eagle *Aquila chrysaetos*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1680>

Breeds Jan 1 to Aug 31

Herring Gull *Larus argentatus*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds Apr 20 to Aug 31

Lawrence's Goldfinch *Carduelis lawrencei*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9464>

Breeds Mar 20 to Sep 20

Least Tern *Sterna antillarum*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds Apr 20 to Sep 10

Long-billed Curlew *Numenius americanus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/5511>

Breeds elsewhere

Long-tailed Duck *Clangula hyemalis*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/7238>

Breeds elsewhere

Marbled Godwit *Limosa fedoa*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9481>

Breeds elsewhere

Northern Fulmar *Fulmarus glacialis*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds elsewhere

Nuttall's Woodpecker *Picoides nuttallii*

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/9410>

Breeds Apr 1 to Jul 20

Oak Titmouse *Baeolophus inornatus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9656>

Breeds Mar 15 to Jul 15

Parasitic Jaeger *Stercorarius parasiticus*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds elsewhere

Pink-footed Shearwater *Puffinus creatopus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Pomarine Jaeger *Stercorarius pomarinus*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds elsewhere

Red-breasted Merganser *Mergus serrator*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds elsewhere

Red-necked Phalarope *Phalaropus lobatus*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds elsewhere

Red-throated Loon *Gavia stellata*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Ring-billed Gull *Larus delawarensis*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds elsewhere

Rufous Hummingbird *selasphorus rufus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/8002>

Breeds elsewhere

Short-billed Dowitcher *Limnodromus griseus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9480>

Breeds elsewhere

Song Sparrow *Melospiza melodia*

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Breeds Feb 20 to Sep 5

Spotted Towhee *Pipilo maculatus clementae*

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/4243>

Breeds Apr 15 to Jul 20

Surf Scoter *Melanitta perspicillata*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds elsewhere

Tricolored Blackbird *Agelaius tricolor*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/3910>

Breeds Mar 15 to Aug 10

Whimbrel *Numenius phaeopus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9483>

Breeds elsewhere

White-winged Scoter *Melanitta fusca*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds elsewhere

Willet *Tringa semipalmata*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Wrentit *Chamaea fasciata*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Mar 15 to Aug 10

Yellow-billed Magpie *Pica nuttalli*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9726>

Breeds Apr 1 to Jul 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

■ probability of presence ■ breeding season | survey effort - no data

SPECIES JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

<p>Allen's Hummingbird BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)</p>	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
<p>Bald Eagle Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)</p>	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
<p>Black Oystercatcher BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)</p>	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++
<p>Black Scoter Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)</p>	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++	++++

Black Skimmer
 BCC Rangewide (CON)
 (This is a Bird of
 Conservation Concern
 (BCC) throughout its
 range in the continental
 USA and Alaska.)



Black Turnstone
 BCC Rangewide (CON)
 (This is a Bird of
 Conservation Concern
 (BCC) throughout its
 range in the continental
 USA and Alaska.)



Black-vented
 Shearwater
 BCC Rangewide (CON)
 (This is a Bird of
 Conservation Concern
 (BCC) throughout its
 range in the continental
 USA and Alaska.)



Bonaparte's Gull
 Non-BCC Vulnerable
 (This is not a Bird of
 Conservation Concern
 (BCC) in this area, but
 warrants attention
 because of the Eagle
 Act or for potential
 susceptibilities in
 offshore areas from
 certain types of
 development or
 activities.)



NOT FOR CONSULTATION

Brown Pelican
Non-BCC Vulnerable
(This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



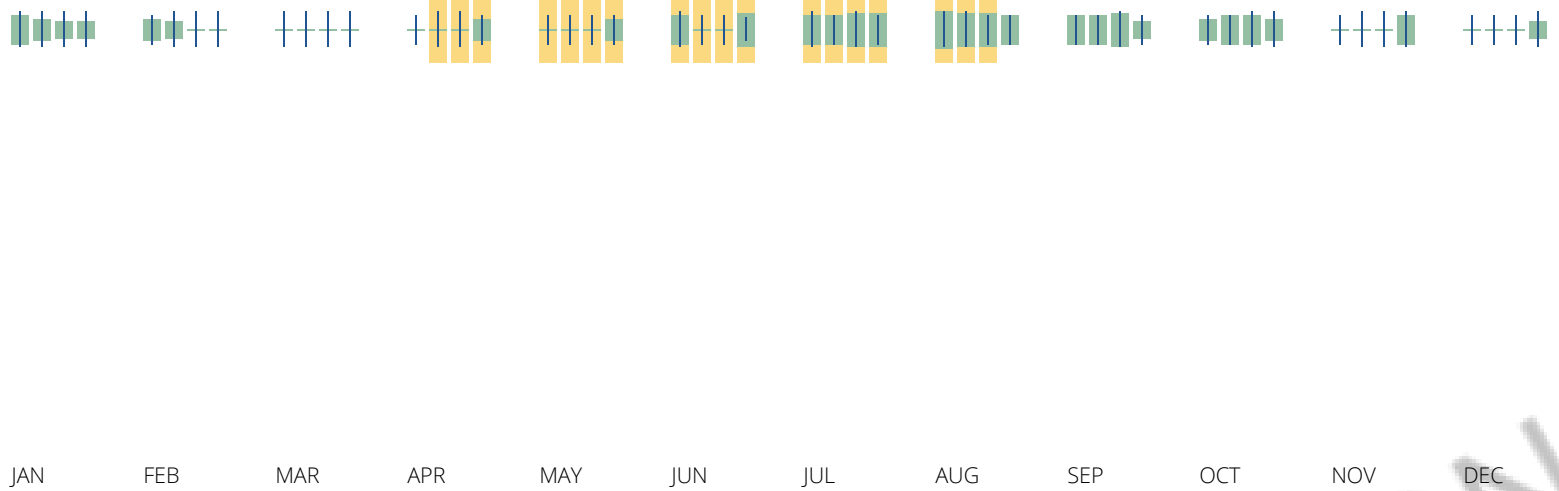
Clark's Grebe
BCC Rangewide (CON)
(This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



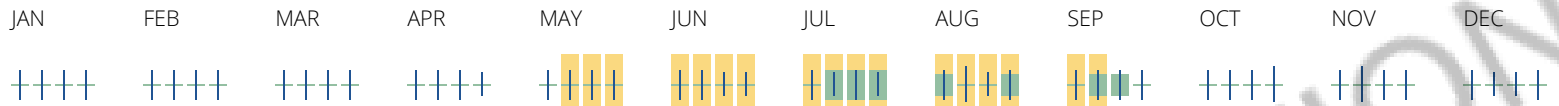
Common Loon
Non-BCC Vulnerable
(This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



Common Murre
 Non-BCC Vulnerable
 (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



Common Tern
 Non-BCC Vulnerable
 (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



Common Yellowthroat
 BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



Double-crested
Cormorant
Non-BCC Vulnerable
(This is not a Bird of
Conservation Concern
(BCC) in this area, but
warrants attention
because of the Eagle
Act or for potential
susceptibilities in
offshore areas from
certain types of
development or
activities.)



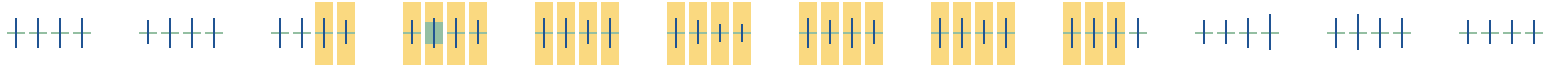
Golden Eagle
Non-BCC Vulnerable
(This is not a Bird of
Conservation Concern
(BCC) in this area, but
warrants attention
because of the Eagle
Act or for potential
susceptibilities in
offshore areas from
certain types of
development or
activities.)



Herring Gull
Non-BCC Vulnerable
(This is not a Bird of
Conservation Concern
(BCC) in this area, but
warrants attention
because of the Eagle
Act or for potential
susceptibilities in
offshore areas from
certain types of
development or
activities.)



Lawrence's Goldfinch
 BCC Rangewide (CON)
 (This is a Bird of
 Conservation Concern
 (BCC) throughout its
 range in the continental
 USA and Alaska.)



Least Tern
 Non-BCC Vulnerable
 (This is not a Bird of
 Conservation Concern
 (BCC) in this area, but
 warrants attention
 because of the Eagle
 Act or for potential
 susceptibilities in
 offshore areas from
 certain types of
 development or
 activities.)



Long-billed Curlew
 BCC Rangewide (CON)
 (This is a Bird of
 Conservation Concern
 (BCC) throughout its
 range in the continental
 USA and Alaska.)



Long-tailed Duck
 Non-BCC Vulnerable
 (This is not a Bird of
 Conservation Concern
 (BCC) in this area, but
 warrants attention
 because of the Eagle
 Act or for potential
 susceptibilities in
 offshore areas from
 certain types of
 development or
 activities.)



Marbled Godwit
 BCC Rangewide (CON)
 (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Northern Fulmar
 Non-BCC Vulnerable
 (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



Nuttall's Woodpecker
 BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



SPECIES JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

Oak Titmouse
 BCC Rangewide (CON)
 (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Parasitic Jaeger
 Non-BCC Vulnerable
 (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



Pink-footed Shearwater
 BCC Rangewide (CON)
 (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Pomarine Jaeger
 Non-BCC Vulnerable
 (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



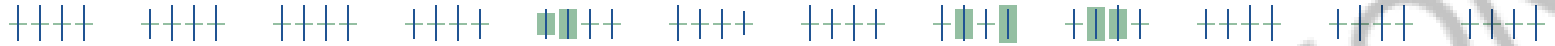
NOT FOR CONSULTATION

Red-breasted Merganser



Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Red-necked Phalarope



Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)

Red-throated Loon



BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)

Ring-billed Gull
 Non-BCC Vulnerable
 (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



Rufous Hummingbird
 BCC Rangewide (CON)
 (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



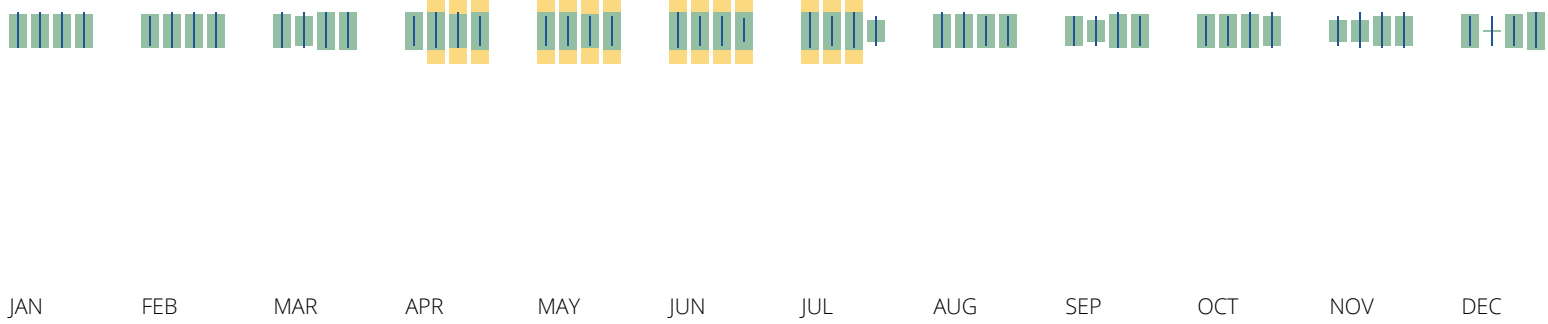
Short-billed Dowitcher
 BCC Rangewide (CON)
 (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Song Sparrow
 BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



Spotted Towhee
 BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



Surf Scoter
 Non-BCC Vulnerable (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



Tricolored Blackbird
 BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Whimbrel
 BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



White-winged Scoter
 Non-BCC Vulnerable
 (This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.)



Willet
 BCC Rangewide (CON)
 (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Wrentit
 BCC Rangewide (CON)
 (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Yellow-billed Magpie
 BCC Rangewide (CON)
 (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



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](#) 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 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.

NOT FOR CONSULTATION

Marine mammals

Marine mammals are protected under the [Marine Mammal Protection Act](#). Some are also protected under the Endangered Species Act¹ and the Convention on International Trade in Endangered Species of Wild Fauna and Flora².

The responsibilities for the protection, conservation, and management of marine mammals are shared by the U.S. Fish and Wildlife Service [responsible for otters, walruses, polar bears, manatees, and dugongs] and NOAA Fisheries³ [responsible for seals, sea lions, whales, dolphins, and porpoises]. Marine mammals under the responsibility of NOAA Fisheries are **not** shown on this list; for additional information on those species please visit the [Marine Mammals](#) page of the NOAA Fisheries website.

The Marine Mammal Protection Act prohibits the take (to harass, hunt, capture, kill, or attempt to harass, hunt, capture or kill) of marine mammals and further coordination may be necessary for project evaluation. Please contact the U.S. Fish and Wildlife Service Field Office shown.

1. The [Endangered Species Act](#) (ESA) of 1973.
2. The [Convention on International Trade in Endangered Species of Wild Fauna and Flora](#) (CITES) is a treaty to ensure that international trade in plants and animals does not threaten their survival in the wild.
3. [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 marine mammals under the responsibility of the U.S. Fish and Wildlife Service are potentially affected by activities in this location:

NAME

Southern Sea Otter *Enhydra lutris nereis*
<https://ecos.fws.gov/ecp/species/8560>

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](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

ESTUARINE AND MARINE DEEPWATER

[E1UBL](#)

ESTUARINE AND MARINE WETLAND

[E2USN](#)

[E2EM1N](#)

[E2SBN](#)

FRESHWATER EMERGENT WETLAND

[PEM1Ch](#)

FRESHWATER POND

[PUBHx](#)[PUSCx](#)[PUBKx](#)[PUBK](#)

RIVERINE

[R4SBA](#)[R2UBHx](#)[R4SBCx](#)[R4SBAx](#)[R3UBHx](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

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.

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