



# Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad (Murrieta) OR Bachelor Mtn. (3311751) OR Fallbrook (3311743) OR Lake Elsinore (3311763) OR Pechanga (3311741) OR Romoland (3311762) OR Temecula (3311742) OR Wildomar (3311753) OR Winchester (3311761)

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Abronia villosa var. aurita</i> chaparral sand-verbena	PDNYC010P1	None	None	G5T2?	S2	1B.1
<i>Accipiter cooperii</i> Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S1S2	SSC
<i>Aimophila ruficeps canescens</i> southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S3	WL
<i>Allium marvinii</i> Yucaipa onion	PMLIL02330	None	None	G1	S1	1B.2
<i>Allium munzii</i> Munz's onion	PMLIL022Z0	Endangered	Threatened	G1	S1	1B.1
<i>Almutaster pauciflorus</i> alkali marsh aster	PDASTEL010	None	None	G4	S1S2	2B.2
<i>Ambrosia pumila</i> San Diego ambrosia	PDAST0C0M0	Endangered	None	G1	S1	1B.1
<i>Anaxyrus californicus</i> arroyo toad	AAABB01230	Endangered	None	G2G3	S2S3	SSC
<i>Anniella stebbinsi</i> Southern California legless lizard	ARACC01060	None	None	G3	S3	SSC
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G4	S3	SSC
<i>Aquila chrysaetos</i> golden eagle	ABNKC22010	None	None	G5	S3	FP
<i>Arctostaphylos rainbowensis</i> Rainbow manzanita	PDERI042T0	None	None	G2	S2	1B.1
<i>Arizona elegans occidentalis</i> California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
<i>Artemisiospiza belli belli</i> Bell's sage sparrow	ABPBX97021	None	None	G5T2T3	S3	WL
<i>Aspidoscelis hyperythra</i> orange-throated whiptail	ARACJ02060	None	None	G5	S2S3	WL
<i>Aspidoscelis tigris stejnegeri</i> coastal whiptail	ARACJ02143	None	None	G5T5	S3	SSC
<i>Astragalus pachypus var. jaegeri</i> Jaeger's milk-vetch	PDFAB0F6G1	None	None	G4T1	S1	1B.1



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<b><i>Athene cunicularia</i></b> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<b><i>Atractelmis wawona</i></b> Wawona riffle beetle	IICOL58010	None	None	G3	S1S2	
<b><i>Atriplex coronata var. notatior</i></b> San Jacinto Valley crownscale	PDCHE040C2	Endangered	None	G4T1	S1	1B.1
<b><i>Atriplex parishii</i></b> Parish's brittlescale	PDCHE041D0	None	None	G1G2	S1	1B.1
<b><i>Atriplex serenana var. davidsonii</i></b> Davidson's saltscale	PDCHE041T1	None	None	G5T1	S1	1B.2
<b><i>Ayenia compacta</i></b> California ayenia	PDSTE01020	None	None	G4	S3	2B.3
<b><i>Berberis nevinii</i></b> Nevin's barberry	PDBER060A0	Endangered	Endangered	G1	S1	1B.1
<b><i>Bombus crotchii</i></b> Crotch bumble bee	IIHYM24480	None	None	G3G4	S1S2	
<b><i>Branchinecta lynchi</i></b> vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
<b><i>Branchinecta sandiegonensis</i></b> San Diego fairy shrimp	ICBRA03060	Endangered	None	G2	S2	
<b><i>Brodiaea filifolia</i></b> thread-leaved brodiaea	PMLIL0C050	Threatened	Endangered	G2	S2	1B.1
<b><i>Brodiaea orcuttii</i></b> Orcutt's brodiaea	PMLIL0C0B0	None	None	G2	S2	1B.1
<b><i>Brodiaea santarosae</i></b> Santa Rosa Basalt brodiaea	PMLIL0C0G0	None	None	G1	S1	1B.2
<b><i>Buteo regalis</i></b> ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
<b><i>Buteo swainsoni</i></b> Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
<b><i>Calochortus plummerae</i></b> Plummer's mariposa-lily	PMLIL0D150	None	None	G4	S4	4.2
<b><i>Calochortus weedii var. intermedius</i></b> intermediate mariposa-lily	PMLIL0D1J1	None	None	G3G4T2	S3	1B.2
<b><i>Campylorhynchus brunneicapillus sandiegonensis</i></b> coastal cactus wren	ABPBG02095	None	None	G5T3Q	S3	SSC
<b><i>Caulanthus simulans</i></b> Payson's jewelflower	PDBRA0M0H0	None	None	G4	S4	4.2
<b><i>Ceanothus ophiochilus</i></b> Vail Lake ceanothus	PDRHA041M0	Threatened	Endangered	G1	S1	1B.1
<b><i>Ceanothus pendletonensis</i></b> Pendleton ceanothus	PDRHA04450	None	None	G1	S1	1B.2



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<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>Chaetodipus californicus femoralis</i> Dulzura pocket mouse	AMAFD05021	None	None	G5T3	S3	SSC
<i>Chaetodipus fallax fallax</i> northwestern San Diego pocket mouse	AMAFD05031	None	None	G5T3T4	S3S4	SSC
<i>Charadrius nivosus nivosus</i> western snowy plover	ABNNB03031	Threatened	None	G3T3	S2	SSC
<i>Chorizanthe parryi var. parryi</i> Parry's spineflower	PDPGN040J2	None	None	G3T2	S2	1B.1
<i>Chorizanthe polygonoides var. longispina</i> long-spined spineflower	PDPGN040K1	None	None	G5T3	S3	1B.2
<i>Cicindela senilis frosti</i> senile tiger beetle	IICOL02121	None	None	G2G3T1T3	S1	
<i>Circus hudsonius</i> northern harrier	ABNKC11011	None	None	G5	S3	SSC
<i>Clarkia delicata</i> delicate clarkia	PDONA050D0	None	None	G3	S3	1B.2
<i>Clinopodium chandleri</i> San Miguel savory	PDLAM08030	None	None	G3	S2	1B.2
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
<i>Coleonyx variegatus abbotti</i> San Diego banded gecko	ARACD01031	None	None	G5T5	S1S2	SSC
<i>Comarostaphylis diversifolia ssp. diversifolia</i> summer holly	PDERI0B011	None	None	G3T2	S2	1B.2
<i>Crotalus ruber</i> red-diamond rattlesnake	ARADE02090	None	None	G4	S3	SSC
<i>Cryptantha wigginsii</i> Wiggins' cryptantha	PDBOR0A400	None	None	G2	S1	1B.2
<i>Diadophis punctatus modestus</i> San Bernardino ringneck snake	ARADB10015	None	None	G5T2T3	S2?	
<i>Diadophis punctatus similis</i> San Diego ringneck snake	ARADB1001A	None	None	G5T4Q	S2?	
<i>Dipodomys merriami parvus</i> San Bernardino kangaroo rat	AMAFD03143	Endangered	Candidate Endangered	G5T1	S1	SSC
<i>Dipodomys stephensi</i> Stephens' kangaroo rat	AMAFD03100	Endangered	Threatened	G2	S2	
<i>Dodecahema leptoceras</i> slender-horned spineflower	PDPGN0V010	Endangered	Endangered	G1	S1	1B.1



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<b><i>Dudleya multicaulis</i></b> many-stemmed dudleya	PDCRA040H0	None	None	G2	S2	1B.2
<b><i>Dudleya viscida</i></b> sticky dudleya	PDCRA040T0	None	None	G2	S2	1B.2
<b><i>Elanus leucurus</i></b> white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
<b><i>Emys marmorata</i></b> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<b><i>Eremophila alpestris actia</i></b> California horned lark	ABPAT02011	None	None	G5T4Q	S4	WL
<b><i>Eryngium aristulatum var. parishii</i></b> San Diego button-celery	PDAP10Z042	Endangered	Endangered	G5T1	S1	1B.1
<b><i>Eumops perotis californicus</i></b> western mastiff bat	AMACD02011	None	None	G4G5T4	S3S4	SSC
<b><i>Euphydryas editha quino</i></b> quino checkerspot butterfly	IILEPK405L	Endangered	None	G5T1T2	S1S2	
<b><i>Geothallus tuberosus</i></b> Campbell's liverwort	NBHEP1C010	None	None	G2	S2	1B.1
<b><i>Gila orcuttii</i></b> arroyo chub	AFCJB13120	None	None	G2	S2	SSC
<b><i>Haliaeetus leucocephalus</i></b> bald eagle	ABNKC10010	Delisted	Endangered	G5	S3	FP
<b><i>Harpagonella palmeri</i></b> Palmer's grapplinghook	PDBOR0H010	None	None	G4	S3	4.2
<b><i>Hesperocyparis forbesii</i></b> Tecate cypress	PGCUP040C0	None	None	G2	S2	1B.1
<b><i>Horkelia cuneata var. puberula</i></b> mesa horkelia	PDR0S0W045	None	None	G4T1	S1	1B.1
<b><i>Horkelia truncata</i></b> Ramona horkelia	PDR0S0W0G0	None	None	G3	S3	1B.3
<b><i>Icteria virens</i></b> yellow-breasted chat	ABPBX24010	None	None	G5	S3	SSC
<b><i>Juncus luciensis</i></b> Santa Lucia dwarf rush	PMJUN013J0	None	None	G3	S3	1B.2
<b><i>Lanius ludovicianus</i></b> loggerhead shrike	ABPBR01030	None	None	G4	S4	SSC
<b><i>Lasiurus xanthinus</i></b> western yellow bat	AMACC05070	None	None	G4G5	S3	SSC
<b><i>Lasthenia glabrata ssp. coulteri</i></b> Coulter's goldfields	PDAST5L0A1	None	None	G4T2	S2	1B.1
<b><i>Lepechinia cardiophylla</i></b> heart-leaved pitcher sage	PDLAM0V020	None	None	G3	S2S3	1B.2



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<b><i>Lepidium virginicum var. robinsonii</i></b> Robinson's pepper-grass	PDBRA1M114	None	None	G5T3	S3	4.3
<b><i>Lepus californicus bennettii</i></b> San Diego black-tailed jackrabbit	AMAEB03051	None	None	G5T3T4	S3S4	SSC
<b><i>Lilium parryi</i></b> lemon lily	PMLIL1A0J0	None	None	G3	S3	1B.2
<b><i>Limnanthes alba ssp. parishii</i></b> Parish's meadowfoam	PDLIM02052	None	Endangered	G4T2	S2	1B.2
<b><i>Linderiella occidentalis</i></b> California linderiella	ICBRA06010	None	None	G2G3	S2S3	
<b><i>Linderiella santarosae</i></b> Santa Rosa Plateau fairy shrimp	ICBRA06020	None	None	G1G2	S1	
<b><i>Mielichhoferia shevockii</i></b> Shevock's copper moss	NBMUSA1010	None	None	G2	S2	1B.2
<b><i>Monardella hypoleuca ssp. intermedia</i></b> intermediate monardella	PDLAM180A4	None	None	G4T2?	S2?	1B.3
<b><i>Monardella macrantha ssp. hallii</i></b> Hall's monardella	PDLAM180E1	None	None	G5T3	S3	1B.3
<b><i>Myosurus minimus ssp. apus</i></b> little mouse-tail	PDRAN0H031	None	None	G5T2Q	S2	3.1
<b><i>Myotis yumanensis</i></b> Yuma myotis	AMACC01020	None	None	G5	S4	
<b><i>Navarretia fossalis</i></b> spreading navarretia	PDPLM0C080	Threatened	None	G2	S2	1B.1
<b><i>Navarretia prostrata</i></b> prostrate vernal pool navarretia	PDPLM0C0Q0	None	None	G2	S2	1B.2
<b><i>Neotoma lepida intermedia</i></b> San Diego desert woodrat	AMAFF08041	None	None	G5T3T4	S3S4	SSC
<b><i>Nolina cismontana</i></b> chaparral nolina	PMAGA080E0	None	None	G3	S3	1B.2
<b><i>Nycticorax nycticorax</i></b> black-crowned night heron	ABNGA11010	None	None	G5	S4	
<b><i>Nyctinomops femorosaccus</i></b> pocketed free-tailed bat	AMACD04010	None	None	G5	S3	SSC
<b><i>Onychomys torridus ramona</i></b> southern grasshopper mouse	AMAFF06022	None	None	G5T3	S3	SSC
<b><i>Orcuttia californica</i></b> California Orcutt grass	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
<b><i>Packera ganderi</i></b> Gander's ragwort	PDAST8H1F0	None	Rare	G2	S2	1B.2
<b><i>Perognathus longimembris brevinasus</i></b> Los Angeles pocket mouse	AMAFD01041	None	None	G5T2	S1S2	SSC



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<b><i>Perognathus longimembris internationalis</i></b> Jacumba pocket mouse	AMAFD01044	None	None	G5T2T3	S2	SSC
<b><i>Phrynosoma blainvillii</i></b> coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
<b><i>Plegadis chihi</i></b> white-faced ibis	ABNGE02020	None	None	G5	S3S4	WL
<b><i>Plestiodon skiltonianus interparietalis</i></b> Coronado skink	ARACH01114	None	None	G5T5	S2S3	WL
<b><i>Poliophtila californica californica</i></b> coastal California gnatcatcher	ABPBJ08081	Threatened	None	G4G5T3Q	S2	SSC
<b><i>Pseudognaphalium leucocephalum</i></b> white rabbit-tobacco	PDAST440C0	None	None	G4	S2	2B.2
<b><i>Rana draytonii</i></b> California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
<b><i>Saltugilia latimeri</i></b> Latimer's woodland-gilia	PDPLM0H010	None	None	G3	S3	1B.2
<b><i>Salvadora hexalepis virgultea</i></b> coast patch-nosed snake	ARADB30033	None	None	G5T4	S2S3	SSC
<b><i>Scutellaria bolanderi ssp. austromontana</i></b> southern mountains skullcap	PDLAM1U0A1	None	None	G4T3	S3	1B.2
<b><i>Senecio aphanactis</i></b> chaparral ragwort	PDAST8H060	None	None	G3	S2	2B.2
<b><i>Sibaropsis hammittii</i></b> Hammitt's clay-cress	PDBRA32010	None	None	G2	S2	1B.2
<b><i>Sidalcea neomexicana</i></b> salt spring checkerbloom	PDMAL110J0	None	None	G4	S2	2B.2
<b><i>Socalchemmis icenoglei</i></b> Icenogle's socalchemmis spider	ILARAU7020	None	None	G1	S1	
<b><i>Southern Coast Live Oak Riparian Forest</i></b> Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
<b><i>Southern Cottonwood Willow Riparian Forest</i></b> Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	G3	S3.2	
<b><i>Southern Interior Basalt Flow Vernal Pool</i></b> Southern Interior Basalt Flow Vernal Pool	CTT44310CA	None	None	G1	S1.2	
<b><i>Southern Sycamore Alder Riparian Woodland</i></b> Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
<b><i>Southern Willow Scrub</i></b> Southern Willow Scrub	CTT63320CA	None	None	G3	S2.1	
<b><i>Spea hammondii</i></b> western spadefoot	AAABF02020	None	None	G2G3	S3	SSC
<b><i>Sphaerocarpos drewiae</i></b> bottle liverwort	NBHEP35030	None	None	G1	S1	1B.1



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<i>Streptocephalus woottoni</i> Riverside fairy shrimp	ICBRA07010	Endangered	None	G1G2	S1S2	
<i>Symphyotrichum defoliatum</i> San Bernardino aster	PDASTE80C0	None	None	G2	S2	1B.2
<i>Taricha torosa</i> Coast Range newt	AAAAF02032	None	None	G4	S4	SSC
<i>Tetracoccus dioicus</i> Parry's tetracoccus	PDEUP1C010	None	None	G2G3	S2	1B.2
<i>Texosporium sancti-jacobi</i> woven-spored lichen	NLTEST7980	None	None	G3	S2	3
<i>Thamnophis hammondi</i> two-striped gartersnake	ARADB36160	None	None	G4	S3S4	SSC
<i>Tortula californica</i> California screw moss	NBMUS7L090	None	None	G2G3	S2?	1B.2
<i>Valley Needlegrass Grassland</i> Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	
<i>Vireo bellii pusillus</i> least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	

Record Count: 132

## Inventory of Rare and Endangered Plants of California



## Search Results

88 matches found. Click on scientific name for details

Search Criteria: 9-Quad include [3311753:3311752:3311751:3311763:3311762:3311761:3311741:3311743:3311742]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	GENERAL HABITATS	MICRO HABITATS	LOWEST ELEVATION (FT)	HIGHEST ELEVATION (FT)	CA ENDEMIC
<a href="#"><u><i>Abronia villosa</i> var. <i>aurita</i></u></a>	chaparral sand-verbena	Nyctaginaceae	annual herb	(Jan)Mar-Sep	None	None	G5T2?	S2	1B.1	Chaparral, Coastal scrub, Desert dunes	Sandy	245	5250	
<a href="#"><u><i>Allium marvinii</i></u></a>	Yucaipa onion	Alliaceae	perennial bulbiferous herb	Apr-May	None	None	G1	S1	1B.2	Chaparral		2495	3495	Yes
<a href="#"><u><i>Allium munzii</i></u></a>	Munz's onion	Alliaceae	perennial bulbiferous herb	Mar-May	FE	CT	G1	S1	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Pinyon and juniper woodland, Valley and foothill grassland	Clay, Mesic	975	3510	Yes
<a href="#"><u><i>Almutaster pauciflorus</i></u></a>	alkali marsh aster	Asteraceae	perennial herb	Jun-Oct	None	None	G4	S1S2	2B.2	Meadows and seeps	Alkaline	785	2625	
<a href="#"><u><i>Ambrosia pumila</i></u></a>	San Diego ambrosia	Asteraceae	perennial rhizomatous herb	Apr-Oct	FE	None	G1	S1	1B.1	Chaparral, Coastal scrub, Valley and foothill grassland, Vernal pools	Alkaline (sometimes), Clay (sometimes), Disturbed areas (often), Sandy (sometimes)	65	1360	
<a href="#"><u><i>Amsinckia douglasiana</i></u></a>	Douglas' fiddleneck	Boraginaceae	annual herb	Mar-May	None	None	G4	S4	4.2	Cismontane woodland, Valley and foothill grassland	Dry	0	6400	Yes
<a href="#"><u><i>Arctostaphylos rainbowensis</i></u></a>	Rainbow manzanita	Ericaceae	perennial evergreen shrub	Dec-Mar	None	None	G2	S2	1B.1	Chaparral		675	2200	Yes
<a href="#"><u><i>Astragalus pachypus</i> var. <i>jaegeri</i></u></a>	Jaeger's milk-vetch	Fabaceae	perennial shrub	Dec-Jun	None	None	G4T1	S1	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland	Rocky (sometimes), Sandy (sometimes)	1200	3200	Yes
<a href="#"><u><i>Atriplex coronata</i> var. <i>notatior</i></u></a>	San Jacinto Valley crownscale	Chenopodiaceae	annual herb	Apr-Aug	FE	None	G4T1	S1	1B.1	Playas, Valley and foothill grassland, Vernal pools	Alkaline	455	1640	Yes



<a href="#"><i>Atriplex parishii</i></a>	Parish's brittle-scale	Chenopodiaceae	annual herb	Jun-Oct	None	None	G1G2	S1	1B.1	Chenopod scrub, Playas, Vernal pools	Alkaline	80	6235	
<a href="#"><i>Atriplex serenana</i> var. <i>dauidsonii</i></a>	Davidson's salt-scale	Chenopodiaceae	annual herb	Apr-Oct	None	None	G5T1	S1	1B.2	Coastal bluff scrub, Coastal scrub	Alkaline	35	655	
<a href="#"><i>Ayenia compacta</i></a>	California ayenia	Malvaceae	perennial herb	Mar-Apr	None	None	G4	S3	2B.3	Mojavean desert scrub, Sonoran desert scrub	Rocky	490	3595	
<a href="#"><i>Berberis nevini</i></a>	Nevin's barberry	Berberidaceae	perennial evergreen shrub	(Feb)Mar-Jun	FE	CE	G1	S1	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub	Gravelly (sometimes), Sandy (sometimes)	230	2705	Yes
<a href="#"><i>Brodiaea filifolia</i></a>	thread-leaved brodiaea	Themidaceae	perennial bulbiferous herb	Mar-Jun	FT	CE	G2	S2	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Playas, Valley and foothill grassland, Vernal pools	Clay (often)	80	3675	Yes
<a href="#"><i>Brodiaea orcuttii</i></a>	Orcutt's brodiaea	Themidaceae	perennial bulbiferous herb	May-Jul	None	None	G2	S2	1B.1	Chaparral, Cismontane woodland, Closed-cone coniferous forest, Meadows and seeps, Valley and foothill grassland, Vernal pools	Clay, Mesic	100	5550	Yes
<a href="#"><i>Brodiaea santarosae</i></a>	Santa Rosa Basalt brodiaea	Themidaceae	perennial bulbiferous herb	May-Jun	None	None	G1	S1	1B.2	Valley and foothill grassland		1855	3430	Yes
<a href="#"><i>Calochortus catalinae</i></a>	Catalina mariposa lily	Liliaceae	perennial bulbiferous herb	(Feb)Mar-Jun	None	None	G3G4	S3S4	4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland		50	2295	Yes

<u><i>Calochortus plummerae</i></u>	Plummer's mariposa-lily	Liliaceae	perennial bulbiferous herb	May-Jul	None	None	G4	S4	4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland	Granitic, Rocky	330	5580	Yes
<u><i>Calochortus weedii</i> var. <i>intermedius</i></u>	intermediate mariposa-lily	Liliaceae	perennial bulbiferous herb	May-Jul	None	None	G3G4T2	S3	1B.2	Chaparral, Coastal scrub, Valley and foothill grassland	Rocky	345	2805	Yes
<u><i>Camissoniopsis lewisii</i></u>	Lewis' evening-primrose	Onagraceae	annual herb	Mar-May(Jun)	None	None	G4	S4	3	Cismontane woodland, Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland	Clay (sometimes), Sandy (sometimes)	0	985	
<u><i>Carex buxbaumii</i></u>	Buxbaum's sedge	Cyperaceae	perennial rhizomatous herb	Mar-Aug	None	None	G5	S3	4.2	Bogs and fens, Marshes and swamps, Meadows and seeps		10	10825	
<u><i>Caulanthus simulans</i></u>	Payson's jewelflower	Brassicaceae	annual herb	(Feb)Mar-May(Jun)	None	None	G4	S4	4.2	Chaparral, Coastal scrub	Granitic, Sandy	295	7220	Yes
<u><i>Ceanothus ophiochilus</i></u>	Vail Lake ceanothus	Rhamnaceae	perennial evergreen shrub	Feb-Mar	FT	CE	G1	S1	1B.1	Chaparral		1905	3495	Yes
<u><i>Ceanothus pendletonensis</i></u>	Pendleton ceanothus	Rhamnaceae	perennial shrub	Mar-Jun	None	None	G1	S1	1B.2	Chaparral, Cismontane woodland	Granitic	360	2855	Yes
<u><i>Centromadia pungens</i> ssp. <i>laevis</i></u>	smooth tarplant	Asteraceae	annual herb	Apr-Sep	None	None	G3G4T2	S2	1B.1	Chenopod scrub, Meadows and seeps, Playas, Riparian woodland, Valley and foothill grassland	Alkaline	0	2100	Yes
<u><i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i></u>	Orcutt's pincushion	Asteraceae	annual herb	Jan-Aug	None	None	G5T1T2	S1	1B.1	Coastal bluff scrub, Coastal dunes		0	330	
<u><i>Chamaebatia australis</i></u>	southern mountain misery	Rosaceae	perennial evergreen shrub	Nov-May	None	None	G4	S4	4.2	Chaparral		985	3345	

<u><i>Chorizanthe leptotheca</i></u>	Peninsular spineflower	Polygonaceae	annual herb	May-Aug	None	None	G3	S3	4.2	Chaparral, Coastal scrub, Lower montane coniferous forest	Granitic	985	6235	
<u><i>Chorizanthe parryi</i> var. <i>parryi</i></u>	Parry's spineflower	Polygonaceae	annual herb	Apr-Jun	None	None	G3T2	S2	1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland	Openings, Rocky (sometimes), Sandy (sometimes)	900	4005	Yes
<u><i>Chorizanthe polygonoides</i> var. <i>longispina</i></u>	long-spined spineflower	Polygonaceae	annual herb	Apr-Jul	None	None	G5T3	S3	1B.2	Chaparral, Coastal scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools	Clay (often)	100	5020	
<u><i>Clarkia delicata</i></u>	delicate clarkia	Onagraceae	annual herb	Apr-Jun	None	None	G3	S3	1B.2	Chaparral, Cismontane woodland		770	3280	
<u><i>Clinopodium chandleri</i></u>	San Miguel savory	Lamiaceae	perennial shrub	Mar-Jul	None	None	G3	S2	1B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland, Valley and foothill grassland		395	3525	
<u><i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i></u>	summer holly	Ericaceae	perennial evergreen shrub	Apr-Jun	None	None	G3T2	S2	1B.2	Chaparral, Cismontane woodland		100	2590	
<u><i>Convolvulus simulans</i></u>	small-flowered morning-glory	Convolvulaceae	annual herb	Mar-Jul	None	None	G4	S4	4.2	Chaparral, Coastal scrub, Valley and foothill grassland		100	2430	
<u><i>Cryptantha wigginsii</i></u>	Wiggins' cryptantha	Boraginaceae	annual herb	Feb-Jun	None	None	G2	S1	1B.2	Coastal scrub		65	900	
<u><i>Deinandra paniculata</i></u>	paniculate tarplant	Asteraceae	annual herb	(Mar)Apr-Nov	None	None	G4	S4	4.2	Coastal scrub, Valley and foothill grassland, Vernal pools		80	3085	
<u><i>Diplacus aridus</i></u>	low bush monkeyflower	Phrymaceae	perennial evergreen shrub	Apr-Jul	None	None	G4	S3	4.3	Chaparral, Sonoran desert scrub		2460	3935	

<u><i>Diplacus clevelandii</i></u>	Cleveland's bush monkeyflower	Phrymaceae	perennial rhizomatous herb	Apr-Jul	None	None	G4	S4	4.2	Chaparral, Cismontane woodland, Lower montane coniferous forest	1475	6560	
<u><i>Dodecahema leptoceras</i></u>	slender-horned spineflower	Polygonaceae	annual herb	Apr-Jun	FE	CE	G1	S1	1B.1	Chaparral, Cismontane woodland, Coastal scrub	655	2495	Yes
<u><i>Dudleya multicaulis</i></u>	many-stemmed dudleya	Crassulaceae	perennial herb	Apr-Jul	None	None	G2	S2	1B.2	Chaparral, Coastal scrub, Valley and foothill grassland	50	2590	Yes
<u><i>Dudleya viscida</i></u>	sticky dudleya	Crassulaceae	perennial herb	May-Jun	None	None	G2	S2	1B.2	Chaparral, Cismontane woodland, Coastal bluff scrub, Coastal scrub	35	1805	Yes
<u><i>Eryngium aristulatum</i> var. <i>parishii</i></u>	San Diego button-celery	Apiaceae	annual/perennial herb	Apr-Jun	FE	CE	G5T1	S1	1B.1	Coastal scrub, Valley and foothill grassland, Vernal pools	65	2035	
<u><i>Erythranthe diffusa</i></u>	Palomar monkeyflower	Phrymaceae	annual herb	Apr-Jun	None	None	G4	S3	4.3	Chaparral, Lower montane coniferous forest	4005	6005	
<u><i>Geothallus tuberosus</i></u>	Campbell's liverwort	Sphaerocarpaceae	ephemeral liverwort		None	None	G2	S2	1B.1	Coastal scrub, Vernal pools	35	1970	Yes
<u><i>Githopsis diffusa</i> ssp. <i>filicaulis</i></u>	Mission Canyon bluecup	Campanulaceae	annual herb	Apr-Jun	None	None	G5T1Q	S1	3.1	Chaparral	1475	2295	Yes
<u><i>Harpagonella palmeri</i></u>	Palmer's grapplinghook	Boraginaceae	annual herb	Mar-May	None	None	G4	S3	4.2	Chaparral, Coastal scrub, Valley and foothill grassland	65	3135	
<u><i>Hesperocyparis forbesii</i></u>	Tecate cypress	Cupressaceae	perennial evergreen tree		None	None	G2	S2	1B.1	Chaparral, Closed-cone coniferous forest	260	4920	
<u><i>Holocarpha virgata</i> ssp. <i>elongata</i></u>	graceful tarplant	Asteraceae	annual herb	May-Nov	None	None	G5T3	S3	4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland	195	3610	Yes

<u><i>Hordeum intercedens</i></u>	vernal barley	Poaceae	annual herb	Mar-Jun	None	None	G3G4	S3S4	3.2	Coastal dunes, Coastal scrub, Valley and foothill grassland, Vernal pools	15	3280	
<u><i>Horkelia cuneata</i> var. <i>puberula</i></u>	mesa horkelia	Rosaceae	perennial herb	Feb-Jul(Sep)	None	None	G4T1	S1	1B.1	Chaparral, Cismontane woodland, Coastal scrub	230	2660	Yes
<u><i>Horkelia truncata</i></u>	Ramona horkelia	Rosaceae	perennial herb	May-Jun	None	None	G3	S3	1B.3	Chaparral, Cismontane woodland	1310	4265	
<u><i>Juglans californica</i></u>	Southern California black walnut	Juglandaceae	perennial deciduous tree	Mar-Aug	None	None	G4	S4	4.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland	165	2955	Yes
<u><i>Juncus acutus</i> ssp. <i>leopoldii</i></u>	southwestern spiny rush	Juncaceae	perennial rhizomatous herb	(Mar)May-Jun	None	None	G5T5	S4	4.2	Coastal dunes, Marshes and swamps, Meadows and seeps	10	2955	
<u><i>Juncus luciensis</i></u>	Santa Lucia dwarf rush	Juncaceae	annual herb	Apr-Jul	None	None	G3	S3	1B.2	Chaparral, Great Basin scrub, Lower montane coniferous forest, Meadows and seeps, Vernal pools	985	6695	Yes
<u><i>Lasthenia glabrata</i> ssp. <i>coulteri</i></u>	Coulter's goldfields	Asteraceae	annual herb	Feb-Jun	None	None	G4T2	S2	1B.1	Marshes and swamps, Playas, Vernal pools	5	4005	
<u><i>Lathyrus splendens</i></u>	pride-of-California	Fabaceae	perennial herb	Mar-Jun	None	None	G4	S4	4.3	Chaparral	655	5005	
<u><i>Lepechinia cardiophylla</i></u>	heart-leaved pitcher sage	Lamiaceae	perennial shrub	Apr-Jul	None	None	G3	S2S3	1B.2	Chaparral, Cismontane woodland, Closed-cone coniferous forest	1705	4495	
<u><i>Lepidium virginicum</i> var. <i>robinsonii</i></u>	Robinson's pepper-grass	Brassicaceae	annual herb	Jan-Jul	None	None	G5T3	S3	4.3	Chaparral, Coastal scrub	5	2905	

<a href="#"><u><i>Lilium humboldtii</i></u></a> <a href="#"><u><i>ssp. ocellatum</i></u></a>	ocellated Humboldt lily	Liliaceae	perennial bulbiferous herb	Mar- Jul(Aug)	None	None	G4T4?	S4?	4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Riparian woodland	100	5905	Yes
<a href="#"><u><i>Lilium parryi</i></u></a>	lemon lily	Liliaceae	perennial bulbiferous herb	Jul-Aug	None	None	G3	S3	1B.2	Lower montane coniferous forest, Meadows and seeps, Riparian forest, Upper montane coniferous forest	4005	9005	
<a href="#"><u><i>Limnanthes alba</i></u></a> <a href="#"><u><i>ssp. parishii</i></u></a>	Parish's meadowfoam	Limnanthaceae	annual herb	Apr-Jun	None	CE	G4T2	S2	1B.2	Lower montane coniferous forest, Meadows and seeps, Vernal pools	1970	6560	Yes
<a href="#"><u><i>Microseris douglasii</i></u></a> <a href="#"><u><i>ssp. platycarpha</i></u></a>	small- flowered microseris	Asteraceae	annual herb	Mar-May	None	None	G4T4	S4	4.2	Cismontane woodland, Coastal scrub, Valley and foothill grassland, Vernal pools	50	3510	
<a href="#"><u><i>Mielichhoferia shevockii</i></u></a>	Shevock's copper moss	Mielichhoferiaceae	moss		None	None	G2	S2	1B.2	Cismontane woodland	2460	4595	Yes
<a href="#"><u><i>Monardella hypoleuca</i></u></a> <a href="#"><u><i>ssp. intermedia</i></u></a>	intermediate monardella	Lamiaceae	perennial rhizomatous herb	Apr-Sep	None	None	G4T2?	S2?	1B.3	Chaparral, Cismontane woodland, Lower montane coniferous forest	1310	4100	Yes
<a href="#"><u><i>Monardella macrantha</i></u></a> <a href="#"><u><i>ssp. hallii</i></u></a>	Hall's monardella	Lamiaceae	perennial rhizomatous herb	Jun-Oct	None	None	G5T3	S3	1B.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland	2395	7200	Yes
<a href="#"><u><i>Myosurus minimus</i></u></a> <a href="#"><u><i>ssp. apus</i></u></a>	little mouse-tail	Ranunculaceae	annual herb	Mar-Jun	None	None	G5T2Q	S2	3.1	Valley and foothill grassland, Vernal -----	65	2100	

<u><i>Navarretia fossalis</i></u>	spreading navarretia	Polemoniaceae	annual herb	Apr-Jun	FT	None	G2	S2	1B.1	Chenopod scrub, Marshes and swamps, Playas, Vernal pools	100	2150	
<u><i>Navarretia prostrata</i></u>	prostrate vernal pool navarretia	Polemoniaceae	annual herb	Apr-Jul	None	None	G2	S2	1B.2	Coastal scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools	10	3970	Yes
<u><i>Nolina cismontana</i></u>	chaparral nolina	Ruscaceae	perennial evergreen shrub	(Mar)May- Jul	None	None	G3	S3	1B.2	Chaparral, Coastal scrub	460	4185	Yes
<u><i>Orcuttia californica</i></u>	California Orcutt grass	Poaceae	annual herb	Apr-Aug	FE	CE	G1	S1	1B.1	Vernal pools	50	2165	
<u><i>Packera ganderi</i></u>	Gander's ragwort	Asteraceae	perennial herb	Apr-Jun	None	CR	G2	S2	1B.2	Chaparral	1310	3935	Yes
<u><i>Piperia cooperi</i></u>	chaparral rein orchid	Orchidaceae	perennial herb	Mar-Jun	None	None	G3G4	S3S4	4.2	Chaparral, Cismontane woodland, Valley and foothill grassland	50	5200	
<u><i>Polygala cornuta</i></u> <u>var. fishiae</u>	Fish's milkwort	Polygalaceae	perennial deciduous shrub	May-Aug	None	None	G5T4	S4	4.3	Chaparral, Cismontane woodland, Riparian woodland	330	3280	
<u><i>Pseudognaphalium leucocephalum</i></u>	white rabbit- tobacco	Asteraceae	perennial herb	(Jul)Aug- Nov(Dec)	None	None	G4	S2	2B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland	0	6890	
<u><i>Quercus engelmannii</i></u>	Engelmann oak	Fagaceae	perennial deciduous tree	Mar-Jun	None	None	G3	S3	4.2	Chaparral, Cismontane woodland, Riparian woodland, Valley and foothill grassland	165	4265	
<u><i>Romneya coulteri</i></u>	Coulter's matilija poppy	Papaveraceae	perennial rhizomatous herb	Mar- Jul(Aug)	None	None	G4	S4	4.2	Chaparral, Coastal scrub	65	3935	
<u><i>Saltugilia latimeri</i></u>	Latimer's woodland- gilia	Polemoniaceae	annual herb	Mar-Jun	None	None	G3	S3	1B.2	Chaparral, Mojavean desert scrub, Pinyon and juniper woodland	1310	6235	Yes

<u><i>Scutellaria bolanderi</i> ssp. <i>austromontana</i></u>	southern mountains skullcap	Lamiaceae	perennial rhizomatous herb	Jun-Aug	None	None	G4T3	S3	1B.2	Chaparral, Cismontane woodland, Lower montane coniferous forest	1395	6560	Yes
<u><i>Selaginella cinerascens</i></u>	ashy spike-moss	Selaginellaceae	perennial rhizomatous herb		None	None	G3G4	S3	4.1	Chaparral, Coastal scrub	65	2100	
<u><i>Senecio aphanactis</i></u>	chaparral ragwort	Asteraceae	annual herb	Jan-Apr(May)	None	None	G3	S2	2B.2	Chaparral, Cismontane woodland, Coastal scrub	50	2625	
<u><i>Sibaropsis hammittii</i></u>	Hammitt's clay-cress	Brassicaceae	annual herb	Mar-Apr	None	None	G2	S2	1B.2	Chaparral, Valley and foothill grassland	2360	3495	Yes
<u><i>Sidalcea neomexicana</i></u>	salt spring checkerbloom	Malvaceae	perennial herb	Mar-Jun	None	None	G4	S2	2B.2	Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Playas	50	5020	
<u><i>Sphaerocarpos drewiae</i></u>	bottle liverwort	Sphaerocarpaceae	ephemeral liverwort		None	None	G1	S1	1B.1	Chaparral, Coastal scrub	295	1970	Yes
<u><i>Symphotrichum defoliatum</i></u>	San Bernardino aster	Asteraceae	perennial rhizomatous herb	Jul-Nov	None	None	G2	S2	1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, Meadows and seeps, Valley and foothill grassland	5	6695	Yes
<u><i>Tetracoccus dioicus</i></u>	Parry's tetracoccus	Picrodendraceae	perennial deciduous shrub	Apr-May	None	None	G2G3	S2	1B.2	Chaparral, Coastal scrub	540	3280	
<u><i>Texosporium sancti-jacobi</i></u>	woven-spored lichen	Caliciaceae	crustose lichen (terricolous)		None	None	G3	S2	3	Chaparral	195	2165	
<u><i>Tortula californica</i></u>	California screw moss	Pottiaceae	moss		None	None	G2G3	S2?	1B.2	Chenopod scrub, Valley and foothill grassland	35	4790	Yes
<u><i>Viguiera laciniata</i></u>	San Diego County viguiera	Asteraceae	perennial shrub	Feb-Jun(Aug)	None	None	G4	S4	4.3	Chaparral, Coastal scrub	195	2460	

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California Native Plant Society, Rare Plant Program. 2021. Inventory of Rare and Endangered Plants of California (online edition, v9-01 1.0). Website <https://www.rareplants.cnps.org> [accessed 21 October 2021].

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**CONTACT US**

Send questions and comments to [rareplants@cnps.org](mailto: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

Riverside 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 species<sup>1</sup> 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 Fisheries<sup>2</sup>).

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

San Bernardino Merriam's Kangaroo Rat *Dipodomys merriami parvus* Endangered  
 Wherever found  
 There is **final** critical habitat for this species. The location of the critical habitat is not available.  
<http://ecos.fws.gov/ecp/species/2060>

Stephens' Kangaroo Rat *Dipodomys stephensi* (incl. *D. cascus*) Endangered  
 Wherever found  
 No critical habitat has been designated for this species.  
<http://ecos.fws.gov/ecp/species/3495>

## Birds

NAME	STATUS
Coastal California Gnatcatcher <i>Polioptila californica californica</i> Wherever found There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. <a href="http://ecos.fws.gov/ecp/species/8178">http://ecos.fws.gov/ecp/species/8178</a>	Threatened
Least Bell's Vireo <i>Vireo bellii pusillus</i> Wherever found There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. <a href="http://ecos.fws.gov/ecp/species/5945">http://ecos.fws.gov/ecp/species/5945</a>	Endangered
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> Wherever found There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. <a href="http://ecos.fws.gov/ecp/species/6749">http://ecos.fws.gov/ecp/species/6749</a>	Endangered

## Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found No critical habitat has been designated for this species. <a href="http://ecos.fws.gov/ecp/species/9743">http://ecos.fws.gov/ecp/species/9743</a>	Candidate
Quino Checkerspot Butterfly <i>Euphydryas editha quino</i> (=E. e. wrighti) Wherever found There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. <a href="http://ecos.fws.gov/ecp/species/5900">http://ecos.fws.gov/ecp/species/5900</a>	Endangered

## Crustaceans

NAME	STATUS
<p>Riverside Fairy Shrimp <i>Streptocephalus woottoni</i></p> <p>Wherever found</p> <p>There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.</p> <p><a href="http://ecos.fws.gov/ecp/species/8148">http://ecos.fws.gov/ecp/species/8148</a></p>	Endangered
<p>Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i></p> <p>Wherever found</p> <p>There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.</p> <p><a href="http://ecos.fws.gov/ecp/species/498">http://ecos.fws.gov/ecp/species/498</a></p>	Threatened

## Flowering Plants

NAME	STATUS
<p>California Orcutt Grass <i>Orcuttia californica</i></p> <p>Wherever found</p> <p>No critical habitat has been designated for this species.</p> <p><a href="http://ecos.fws.gov/ecp/species/4923">http://ecos.fws.gov/ecp/species/4923</a></p>	Endangered
<p>Munz's Onion <i>Allium munzii</i></p> <p>Wherever found</p> <p>There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.</p> <p><a href="http://ecos.fws.gov/ecp/species/2951">http://ecos.fws.gov/ecp/species/2951</a></p>	Endangered
<p>San Diego Ambrosia <i>Ambrosia pumila</i></p> <p>Wherever found</p> <p>There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.</p> <p><a href="http://ecos.fws.gov/ecp/species/8287">http://ecos.fws.gov/ecp/species/8287</a></p>	Endangered
<p>San Diego Button-celery <i>Eryngium aristulatum</i> var. <i>parishii</i></p> <p>Wherever found</p> <p>No critical habitat has been designated for this species.</p> <p><a href="http://ecos.fws.gov/ecp/species/5937">http://ecos.fws.gov/ecp/species/5937</a></p>	Endangered
<p>Spreading Navarretia <i>Navarretia fossalis</i></p> <p>Wherever found</p> <p>There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available.</p> <p><a href="http://ecos.fws.gov/ecp/species/1334">http://ecos.fws.gov/ecp/species/1334</a></p>	Threatened

Thread-leaved Brodiaea *Brodiaea filifolia*

Threatened

Wherever found

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

<http://ecos.fws.gov/ecp/species/6087>

## 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 Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

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.)
<p><b>Allen's Hummingbird</b> <i>Selasphorus sasin</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="http://ecos.fws.gov/ecp/species/9637">http://ecos.fws.gov/ecp/species/9637</a></p>	Breeds Feb 1 to Jul 15
<p><b>California Thrasher</b> <i>Toxostoma redivivum</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds Jan 1 to Jul 31
<p><b>Common Yellowthroat</b> <i>Geothlypis trichas sinuosa</i>            This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA  <a href="http://ecos.fws.gov/ecp/species/2084">http://ecos.fws.gov/ecp/species/2084</a></p>	Breeds May 20 to Jul 31
<p><b>Golden Eagle</b> <i>Aquila chrysaetos</i>            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.  <a href="http://ecos.fws.gov/ecp/species/1680">http://ecos.fws.gov/ecp/species/1680</a></p>	Breeds Jan 1 to Aug 31
<p><b>Lawrence's Goldfinch</b> <i>Carduelis lawrencei</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="http://ecos.fws.gov/ecp/species/9464">http://ecos.fws.gov/ecp/species/9464</a></p>	Breeds Mar 20 to Sep 20

<p><b>Mountain Plover</b> <i>Charadrius montanus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="http://ecos.fws.gov/ecp/species/3638">http://ecos.fws.gov/ecp/species/3638</a></p>	Breeds elsewhere
<p><b>Nuttall's Woodpecker</b> <i>Picoides nuttallii</i></p> <p>This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p> <p><a href="http://ecos.fws.gov/ecp/species/9410">http://ecos.fws.gov/ecp/species/9410</a></p>	Breeds Apr 1 to Jul 20
<p><b>Oak Titmouse</b> <i>Baeolophus inornatus</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="http://ecos.fws.gov/ecp/species/9656">http://ecos.fws.gov/ecp/species/9656</a></p>	Breeds Mar 15 to Jul 15
<p><b>Tricolored Blackbird</b> <i>Agelaius tricolor</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p> <p><a href="http://ecos.fws.gov/ecp/species/3910">http://ecos.fws.gov/ecp/species/3910</a></p>	Breeds Mar 15 to Aug 10
<p><b>Wrentit</b> <i>Chamaea fasciata</i></p> <p>This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds Mar 15 to Aug 10

## 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  $0.05/0.25 = 0.2$ .

- 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.

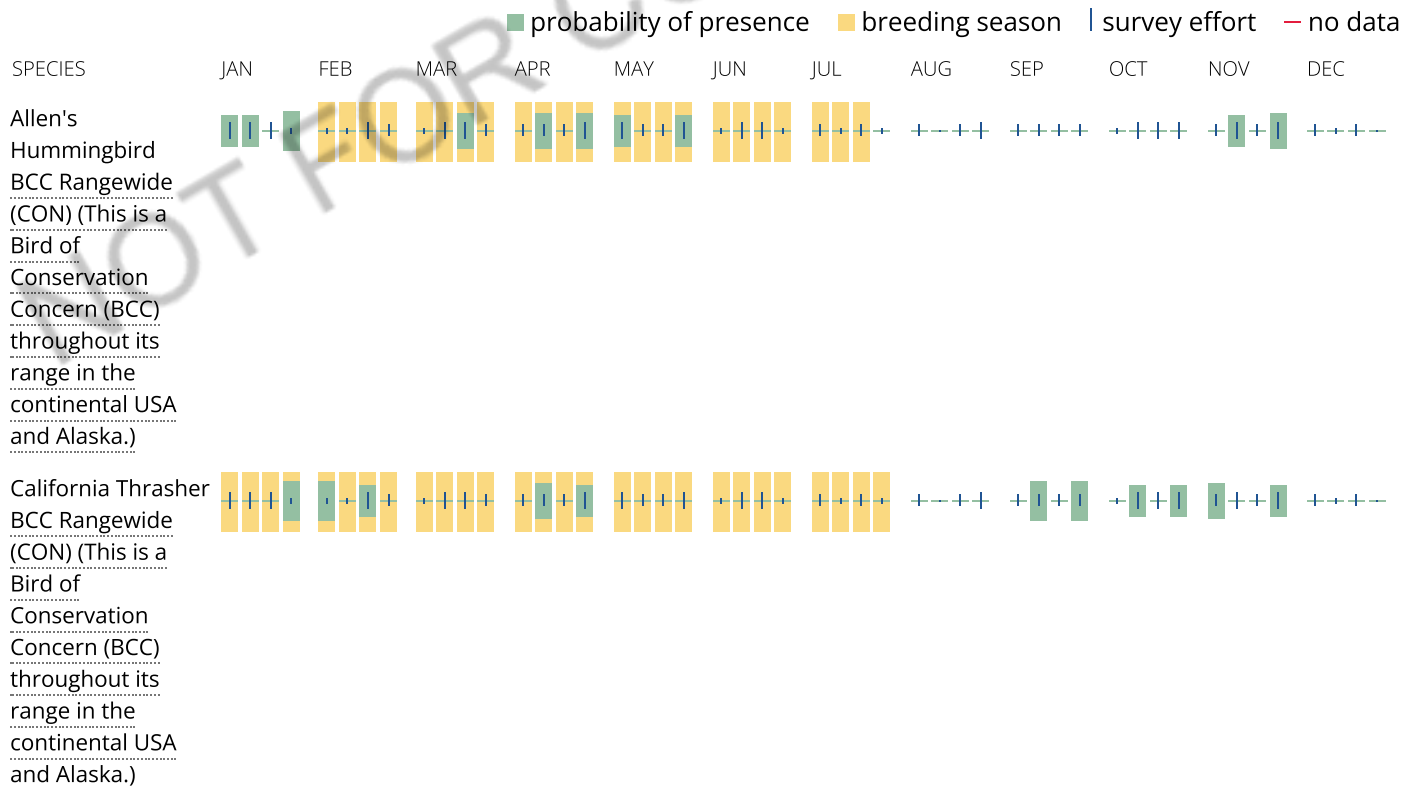
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

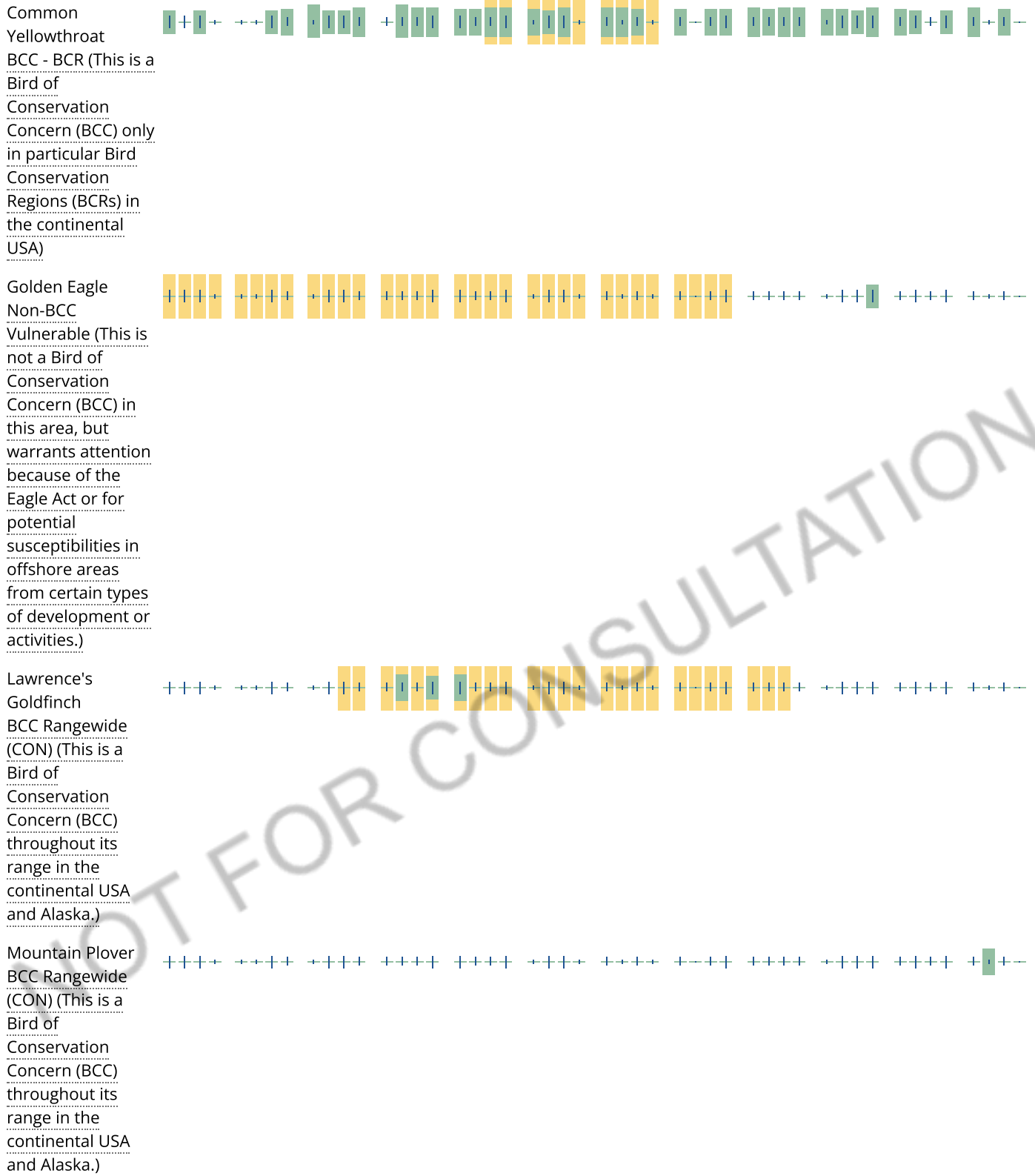
**No Data (-)**

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.



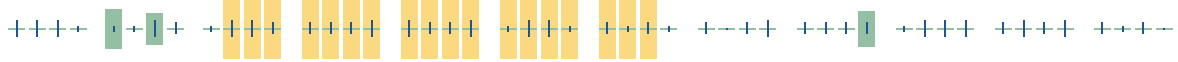


NOT FOR CONSULTATION

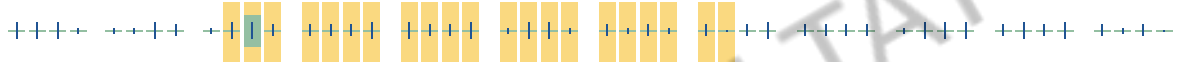
Nuttall's Woodpecker  
 BCC - BCR (This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA)



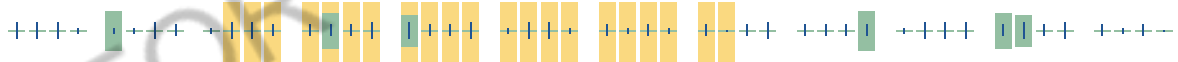
Oak Titmouse  
 BCC Rangewide (CON) (This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.)



Tricolored Blackbird  
 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.)



**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.

## 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:

RIVERINE

[R4SBC](#)

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.