

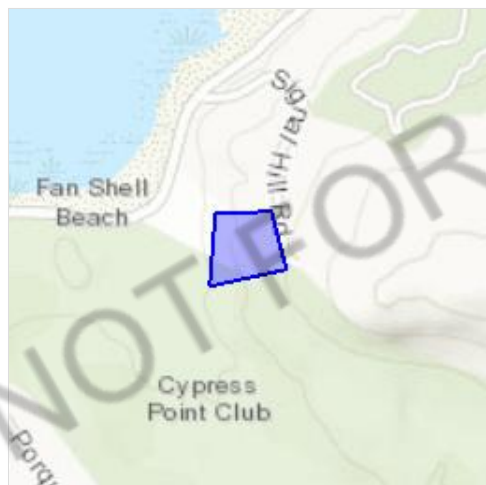
# IPaC resource list

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

Monterey County, California



## Local office

Ventura Fish And Wildlife Office

☎ (805) 644-1766

📠 (805) 644-3958

2493 Portola Road, Suite B  
Ventura, CA 93003-7726

# 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.
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

Southern Sea Otter *Enhydra lutris nereis*  
 No critical habitat has been designated for this species.  
<https://ecos.fws.gov/ecp/species/8560>

Threatened  
 Marine mammal

## Birds

NAME	STATUS
California Condor <i>Gymnogyps californianus</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. <a href="https://ecos.fws.gov/ecp/species/8193">https://ecos.fws.gov/ecp/species/8193</a>	Endangered
California Least Tern <i>Sterna antillarum browni</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/8104">https://ecos.fws.gov/ecp/species/8104</a>	Endangered
Least Bell's Vireo <i>Vireo bellii pusillus</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. <a href="https://ecos.fws.gov/ecp/species/5945">https://ecos.fws.gov/ecp/species/5945</a>	Endangered
Marbled Murrelet <i>Brachyramphus marmoratus</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. <a href="https://ecos.fws.gov/ecp/species/4467">https://ecos.fws.gov/ecp/species/4467</a>	Threatened
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. <a href="https://ecos.fws.gov/ecp/species/6749">https://ecos.fws.gov/ecp/species/6749</a>	Endangered
Western Snowy Plover <i>Charadrius alexandrinus nivosus</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. <a href="https://ecos.fws.gov/ecp/species/8035">https://ecos.fws.gov/ecp/species/8035</a>	Threatened

## Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. <a href="https://ecos.fws.gov/ecp/species/2891">https://ecos.fws.gov/ecp/species/2891</a>	Threatened

California Tiger Salamander <i>Ambystoma californiense</i>	Threatened
There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat.	
<a href="https://ecos.fws.gov/ecp/species/2076">https://ecos.fws.gov/ecp/species/2076</a>	

## Fishes

NAME	STATUS
Tidewater Goby <i>Eucyclogobius newberryi</i>	Endangered
There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat.	
<a href="https://ecos.fws.gov/ecp/species/57">https://ecos.fws.gov/ecp/species/57</a>	

## Insects

NAME	STATUS
Smith's Blue Butterfly <i>Euphilotes enoptes smithi</i>	Endangered
There is <b>proposed</b> critical habitat for this species. The location of the critical habitat is not available.	
<a href="https://ecos.fws.gov/ecp/species/4418">https://ecos.fws.gov/ecp/species/4418</a>	

## Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i>	Threatened
There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat.	
<a href="https://ecos.fws.gov/ecp/species/498">https://ecos.fws.gov/ecp/species/498</a>	

## Flowering Plants

NAME	STATUS
Beach Layia <i>Layia carnosa</i>	Endangered
No critical habitat has been designated for this species.	
<a href="https://ecos.fws.gov/ecp/species/6728">https://ecos.fws.gov/ecp/species/6728</a>	
Clover Lupine <i>Lupinus tidestromii</i>	Endangered
No critical habitat has been designated for this species.	
<a href="https://ecos.fws.gov/ecp/species/4459">https://ecos.fws.gov/ecp/species/4459</a>	
Coastal Dunes Milk-vetch <i>Astragalus tener</i> var. <i>titi</i>	Endangered
No critical habitat has been designated for this species.	
<a href="https://ecos.fws.gov/ecp/species/7675">https://ecos.fws.gov/ecp/species/7675</a>	

Hickman's Potentilla <i>Potentilla hickmanii</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/6343">https://ecos.fws.gov/ecp/species/6343</a>	Endangered
Marsh Sandwort <i>Arenaria paludicola</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/2229">https://ecos.fws.gov/ecp/species/2229</a>	Endangered
Menzies' Wallflower <i>Erysimum menziesii</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/2935">https://ecos.fws.gov/ecp/species/2935</a>	Endangered
Monterey Clover <i>Trifolium trichocalyx</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/4282">https://ecos.fws.gov/ecp/species/4282</a>	Endangered
Monterey Gilia <i>Gilia tenuiflora</i> ssp. <i>arenaria</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/856">https://ecos.fws.gov/ecp/species/856</a>	Endangered
Monterey Spineflower <i>Chorizanthe pungens</i> var. <i>pungens</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. <a href="https://ecos.fws.gov/ecp/species/396">https://ecos.fws.gov/ecp/species/396</a>	Threatened
Yadon's Piperia <i>Piperia yadonii</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. <a href="https://ecos.fws.gov/ecp/species/4205">https://ecos.fws.gov/ecp/species/4205</a>	Endangered

## Conifers and Cycads

NAME	STATUS
Gowen Cypress <i>Cupressus goveniana</i> ssp. <i>goveniana</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/8548">https://ecos.fws.gov/ecp/species/8548</a>	Threatened

## 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="https://ecos.fws.gov/ecp/species/9637">https://ecos.fws.gov/ecp/species/9637</a></p>	Breeds Feb 1 to Jul 15
<p><b>Ashy Storm-petrel</b> <i>Oceanodroma homochroa</i>        This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/7237">https://ecos.fws.gov/ecp/species/7237</a></p>	Breeds May 1 to Jan 15
<p><b>Bald Eagle</b> <i>Haliaeetus leucocephalus</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="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a></p>	Breeds Jan 1 to Aug 31
<p><b>Black Oystercatcher</b> <i>Haematopus bachmani</i>        This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9591">https://ecos.fws.gov/ecp/species/9591</a></p>	Breeds Apr 15 to Oct 31
<p><b>Black Skimmer</b> <i>Rynchops niger</i>        This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/5234">https://ecos.fws.gov/ecp/species/5234</a></p>	Breeds May 20 to Sep 15
<p><b>Black Swift</b> <i>Cypseloides niger</i>        This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/8878">https://ecos.fws.gov/ecp/species/8878</a></p>	Breeds Jun 15 to Sep 10
<p><b>Black Turnstone</b> <i>Arenaria melanocephala</i>        This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds elsewhere
<p><b>Burrowing Owl</b> <i>Athene cunicularia</i>        This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA  <a href="https://ecos.fws.gov/ecp/species/9737">https://ecos.fws.gov/ecp/species/9737</a></p>	Breeds Mar 15 to Aug 31
<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

<b>Clark's Grebe</b> <i>Aechmophorus clarkii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jan 1 to Dec 31
<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="https://ecos.fws.gov/ecp/species/2084">https://ecos.fws.gov/ecp/species/2084</a>	Breeds May 20 to Jul 31
<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="https://ecos.fws.gov/ecp/species/1680">https://ecos.fws.gov/ecp/species/1680</a>	Breeds Jan 1 to Aug 31
<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="https://ecos.fws.gov/ecp/species/9464">https://ecos.fws.gov/ecp/species/9464</a>	Breeds Mar 20 to Sep 20
<b>Lewis's Woodpecker</b> <i>Melanerpes lewis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9408">https://ecos.fws.gov/ecp/species/9408</a>	Breeds Apr 20 to Sep 30
<b>Long-billed Curlew</b> <i>Numenius americanus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/5511">https://ecos.fws.gov/ecp/species/5511</a>	Breeds elsewhere
<b>Marbled Godwit</b> <i>Limosa fedoa</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9481">https://ecos.fws.gov/ecp/species/9481</a>	Breeds elsewhere
<b>Nuttall's Woodpecker</b> <i>Picoides nuttallii</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/9410">https://ecos.fws.gov/ecp/species/9410</a>	Breeds Apr 1 to Jul 20
<b>Oak Titmouse</b> <i>Baeolophus inornatus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9656">https://ecos.fws.gov/ecp/species/9656</a>	Breeds Mar 15 to Jul 15



<p><b>Rufous Hummingbird</b> <i>selasphorus rufus</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/8002">https://ecos.fws.gov/ecp/species/8002</a></p>	Breeds elsewhere
<p><b>Short-billed Dowitcher</b> <i>Limnodromus griseus</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9480">https://ecos.fws.gov/ecp/species/9480</a></p>	Breeds elsewhere
<p><b>Song Sparrow</b> <i>Melospiza melodia</i>  This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	Breeds Feb 20 to Sep 5
<p><b>Spotted Towhee</b> <i>Pipilo maculatus clementae</i>  This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA  <a href="https://ecos.fws.gov/ecp/species/4243">https://ecos.fws.gov/ecp/species/4243</a></p>	Breeds Apr 15 to Jul 20
<p><b>Tricolored Blackbird</b> <i>Agelaius tricolor</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/3910">https://ecos.fws.gov/ecp/species/3910</a></p>	Breeds Mar 15 to Aug 10
<p><b>Whimbrel</b> <i>Numenius phaeopus</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9483">https://ecos.fws.gov/ecp/species/9483</a></p>	Breeds elsewhere
<p><b>Willet</b> <i>Tringa semipalmata</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds elsewhere
<p><b>Wrentit</b> <i>Chamaea fasciata</i>  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  $0.05/0.25 = 0.2$ .
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.

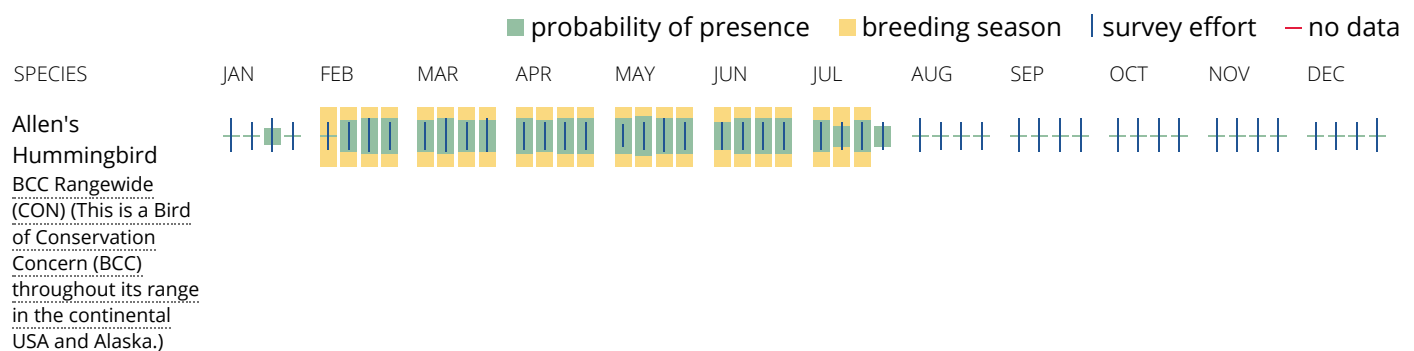
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

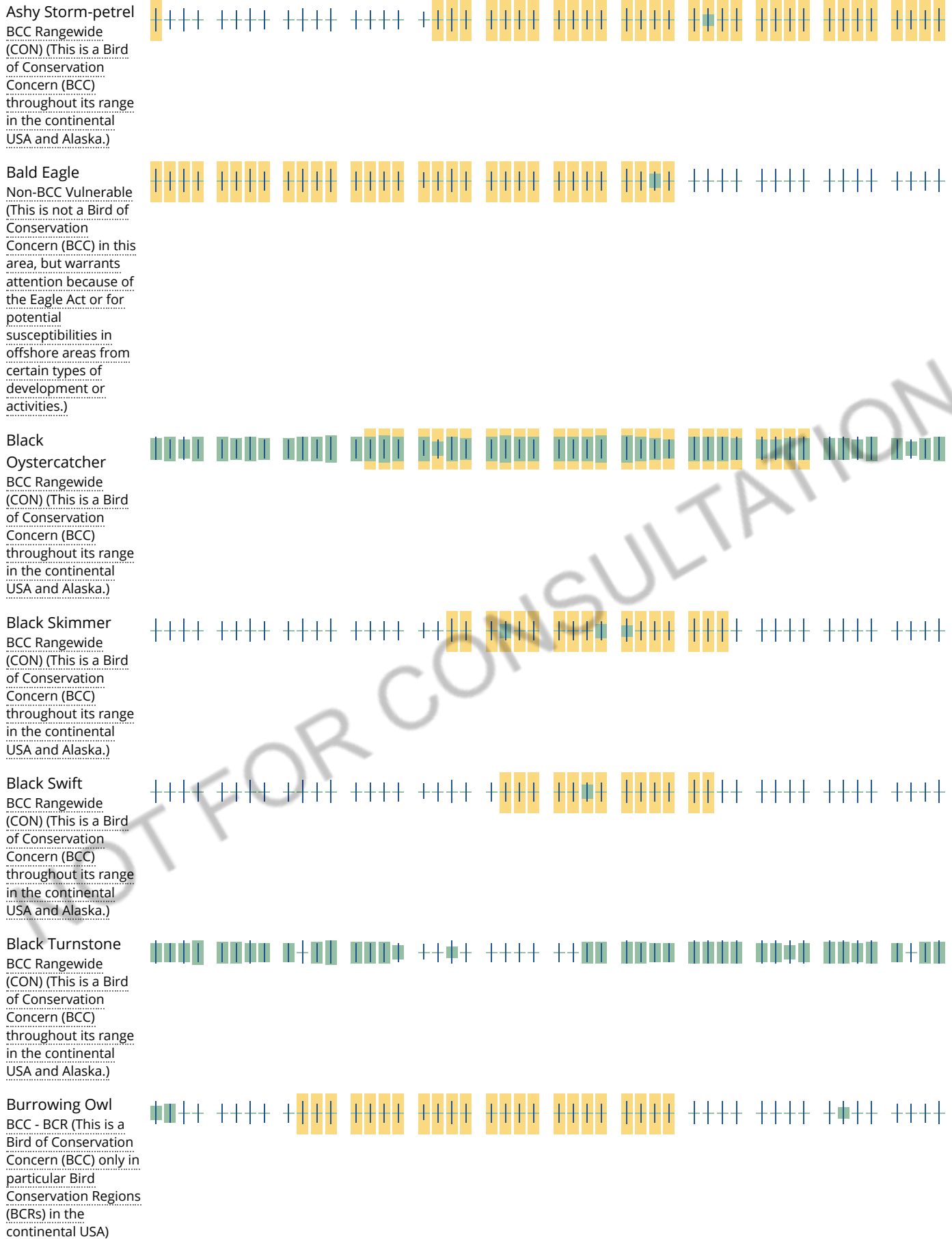
### No Data (—)

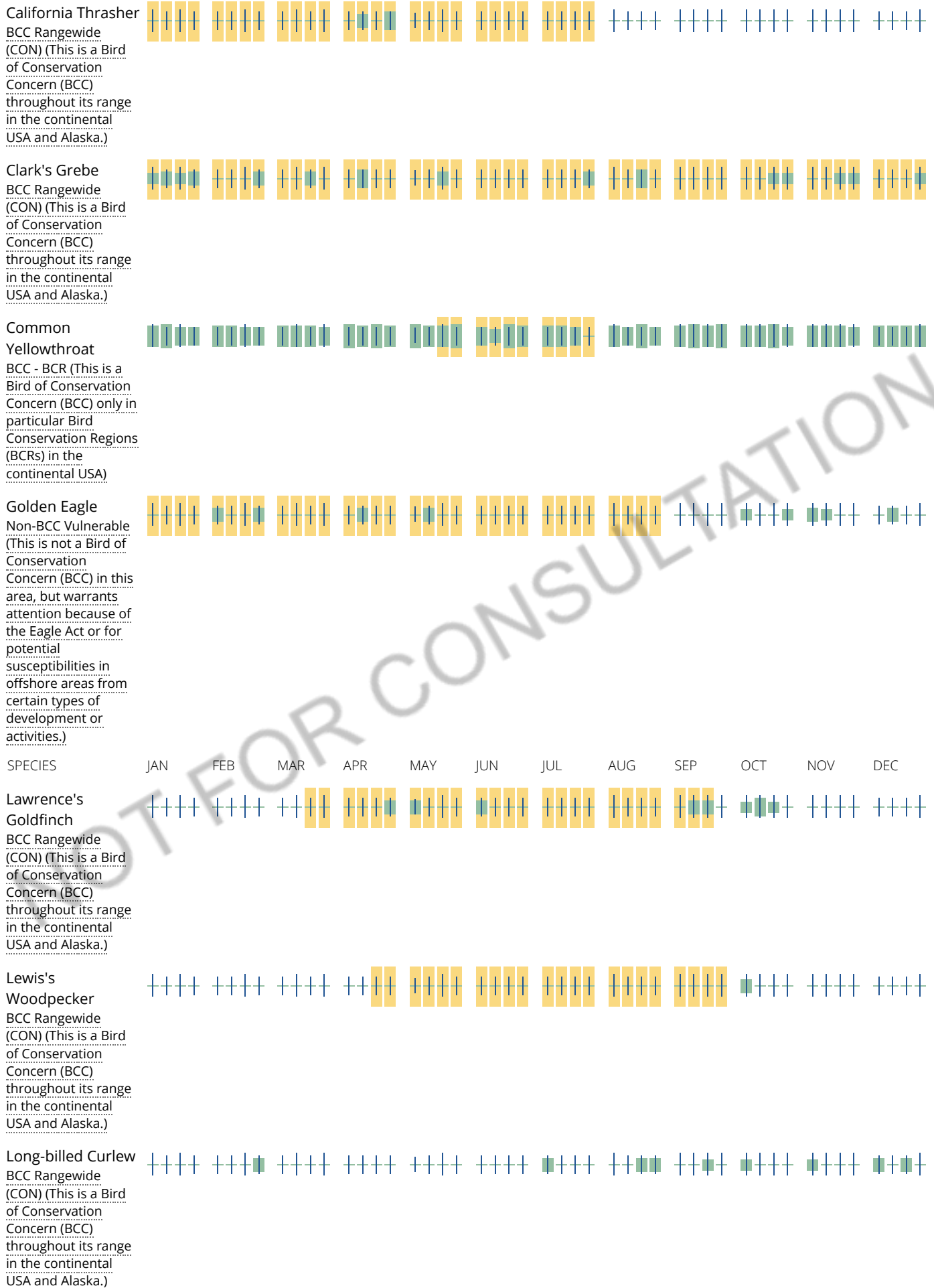
A week is marked as having no data if there were no survey events for that week.

### 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.







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



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.)



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.)

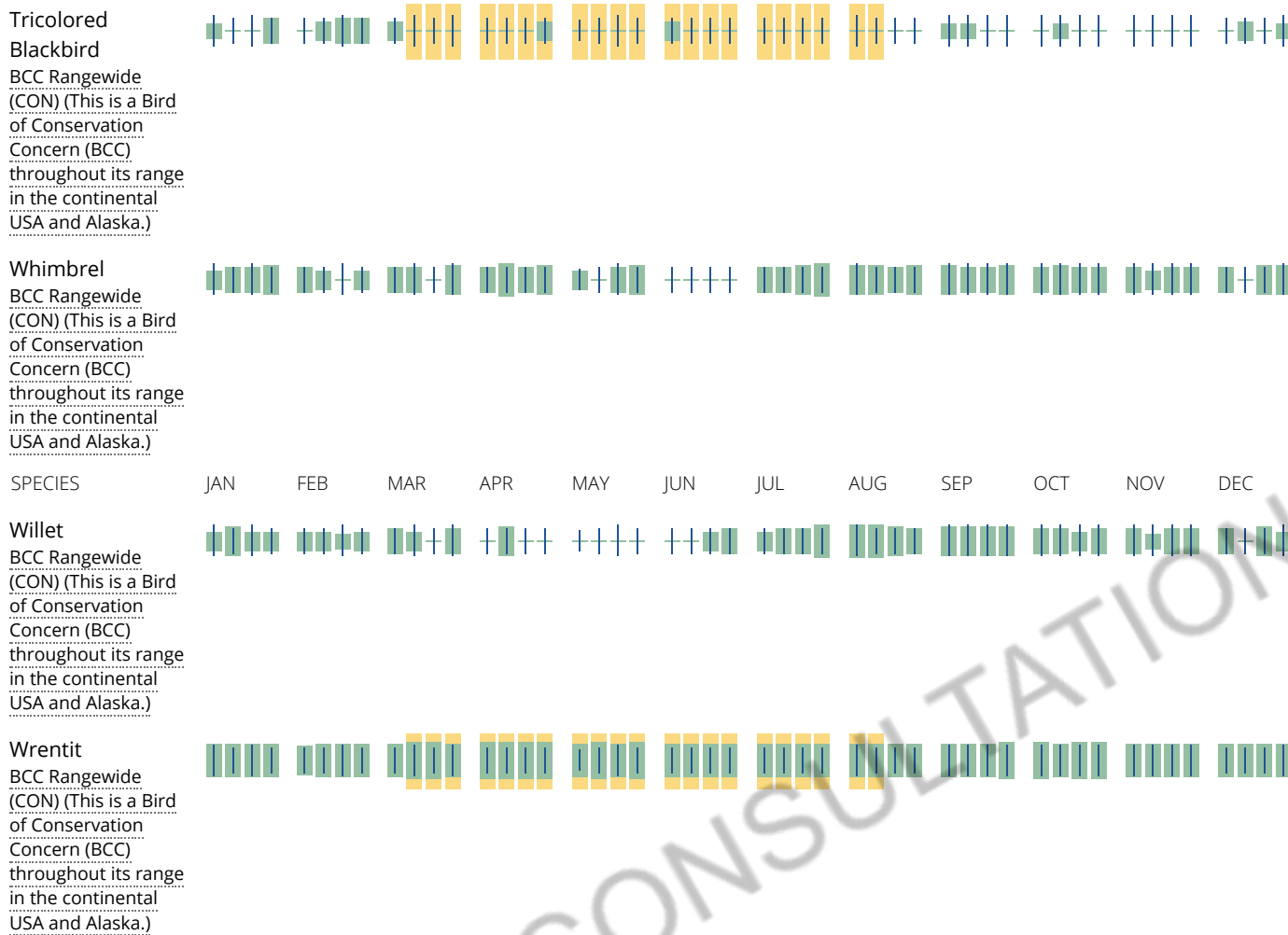


Song Sparrow  
 BCC - BCR (This is a  
 Bird of Conservation  
 Concern (BCC) only in  
 particular Bird  
 Conservation Regions  
 (BCRs) in the  
 continental USA)



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





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

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

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

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

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

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

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

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

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

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

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

## What are the levels of concern for migratory birds?

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

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

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

## Details about birds that are potentially affected by offshore projects

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

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

## What if I have eagles on my list?

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

### Proper Interpretation and Use of Your Migratory Bird Report

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

NOT FOR CONSULTATION



# Marine mammals

Marine mammals are protected under the [Marine Mammal Protection Act](#). Some are also protected under the Endangered Species Act<sup>1</sup> and the Convention on International Trade in Endangered Species of Wild Fauna and Flora<sup>2</sup>.

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 Fisheries<sup>3</sup> [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

### Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

## Wetlands in the National Wetlands Inventory

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

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

THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

#### **Data limitations**

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

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

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

#### **Data exclusions**

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

#### **Data precautions**

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



### Signal Hill NOAA Species List

Quad Name **Monterey**

Quad Number **36121-E8**

#### **ESA Anadromous Fish**

SONCC Coho ESU (T) -

CCC Coho ESU (E) -

CC Chinook Salmon ESU (T) -

CVSR Chinook Salmon ESU (T) -

SRWR Chinook Salmon ESU (E) -

NC Steelhead DPS (T) -

CCC Steelhead DPS (T) -

SCCC Steelhead DPS (T) - **X**

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

#### **ESA Anadromous Fish Critical Habitat**

SONCC Coho Critical Habitat -

CCC Coho Critical Habitat -

CC Chinook Salmon Critical Habitat -

CVSR Chinook Salmon Critical Habitat -

SRWR Chinook Salmon Critical Habitat -

NC Steelhead Critical Habitat -

CCC Steelhead Critical Habitat -

SCCC Steelhead Critical Habitat - **X**

SC Steelhead Critical Habitat -

CCV Steelhead Critical Habitat -

Eulachon Critical Habitat -

sDPS Green Sturgeon Critical Habitat - **X**

## **ESA Marine Invertebrates**

Range Black Abalone (E) - **X**

Range White Abalone (E) -

## **ESA Marine Invertebrates Critical Habitat**

Black Abalone Critical Habitat - **X**

## **ESA Sea Turtles**

East Pacific Green Sea Turtle (T) - **X**

Olive Ridley Sea Turtle (T/E) - **X**

Leatherback Sea Turtle (E) - **X**

North Pacific Loggerhead Sea Turtle (E) - **X**

## **ESA Whales**

Blue Whale (E) - **X**

Fin Whale (E) - **X**

Humpback Whale (E) - **X**

Southern Resident Killer Whale (E) - **X**

North Pacific Right Whale (E) - **X**

Sei Whale (E) - **X**

Sperm Whale (E) - **X**

## **ESA Pinnipeds**

Guadalupe Fur Seal (T) - **X**

Steller Sea Lion Critical Habitat -

## **Essential Fish Habitat**

Coho EFH -

Chinook Salmon EFH -

Groundfish EFH - **X**

Coastal Pelagics EFH - **X**

Highly Migratory Species EFH - **X**

**MMPA Species (See list at left)**

**ESA and MMPA Cetaceans/Pinnipeds**

**See list at left and consult the NMFS Long Beach office  
562-980-4000**

MMPA Cetaceans - **X**

MMPA Pinnipeds - **X**

Quad Name **Monterey OE N**

Quad Number **36121-F8**

**ESA Anadromous Fish**

SONCC Coho ESU (T) -

CCC Coho ESU (E) -

CC Chinook Salmon ESU (T) -

CVSR Chinook Salmon ESU (T) -

SRWR Chinook Salmon ESU (E) -

NC Steelhead DPS (T) -

CCC Steelhead DPS (T) -

SCCC Steelhead DPS (T) - **X**

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

**ESA Anadromous Fish Critical Habitat**

SONCC Coho Critical Habitat -

CCC Coho Critical Habitat -

CC Chinook Salmon Critical Habitat -

CVSR Chinook Salmon Critical Habitat -

SRWR Chinook Salmon Critical Habitat -

NC Steelhead Critical Habitat -

CCC Steelhead Critical Habitat -

SCCC Steelhead Critical Habitat -

SC Steelhead Critical Habitat -

CCV Steelhead Critical Habitat -  
Eulachon Critical Habitat -  
sDPS Green Sturgeon Critical Habitat - **X**

### **ESA Marine Invertebrates**

Range Black Abalone (E) - **X**  
Range White Abalone (E) -

### **ESA Marine Invertebrates Critical Habitat**

Black Abalone Critical Habitat - **X**

### **ESA Sea Turtles**

East Pacific Green Sea Turtle (T) - **X**  
Olive Ridley Sea Turtle (T/E) - **X**  
Leatherback Sea Turtle (E) - **X**  
North Pacific Loggerhead Sea Turtle (E) - **X**

### **ESA Whales**

Blue Whale (E) - **X**  
Fin Whale (E) - **X**  
Humpback Whale (E) - **X**  
Southern Resident Killer Whale (E) - **X**  
North Pacific Right Whale (E) - **X**  
Sei Whale (E) - **X**  
Sperm Whale (E) - **X**

### **ESA Pinnipeds**

Guadalupe Fur Seal (T) - **X**  
Steller Sea Lion Critical Habitat -

### **Essential Fish Habitat**

Coho EFH -  
Chinook Salmon EFH -

Groundfish EFH - **X**

Coastal Pelagics EFH - **X**

Highly Migratory Species EFH - **X**

### **MMPA Species (See list at left)**

#### **ESA and MMPA Cetaceans/Pinnipeds**

**See list at left and consult the NMFS Long Beach office  
562-980-4000**

MMPA Cetaceans - **X**

MMPA Pinnipeds - **X**

Quad Name **Marina**

Quad Number **36121-F7**

### **ESA Anadromous Fish**

SONCC Coho ESU (T) -

CCC Coho ESU (E) -

CC Chinook Salmon ESU (T) -

CVSR Chinook Salmon ESU (T) -

SRWR Chinook Salmon ESU (E) -

NC Steelhead DPS (T) -

CCC Steelhead DPS (T) -

SCCC Steelhead DPS (T) - **X**

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

### **ESA Anadromous Fish Critical Habitat**

SONCC Coho Critical Habitat -

CCC Coho Critical Habitat -

CC Chinook Salmon Critical Habitat -

CVSR Chinook Salmon Critical Habitat -

SRWR Chinook Salmon Critical Habitat -  
NC Steelhead Critical Habitat -  
CCC Steelhead Critical Habitat -  
SCCC Steelhead Critical Habitat - X  
SC Steelhead Critical Habitat -  
CCV Steelhead Critical Habitat -  
Eulachon Critical Habitat -  
sDPS Green Sturgeon Critical Habitat - X

### **ESA Marine Invertebrates**

Range Black Abalone (E) - X  
Range White Abalone (E) -

### **ESA Marine Invertebrates Critical Habitat**

Black Abalone Critical Habitat -

### **ESA Sea Turtles**

East Pacific Green Sea Turtle (T) - X  
Olive Ridley Sea Turtle (T/E) - X  
Leatherback Sea Turtle (E) - X  
North Pacific Loggerhead Sea Turtle (E) - X

### **ESA Whales**

Blue Whale (E) - X  
Fin Whale (E) - X  
Humpback Whale (E) - X  
Southern Resident Killer Whale (E) - X  
North Pacific Right Whale (E) - X  
Sei Whale (E) - X  
Sperm Whale (E) - X

### **ESA Pinnipeds**

Guadalupe Fur Seal (T) - X  
Steller Sea Lion Critical Habitat -



## **Essential Fish Habitat**

Coho EFH -

Chinook Salmon EFH -

Groundfish EFH - **X**

Coastal Pelagics EFH - **X**

Highly Migratory Species EFH - **X**

## **MMPA Species (See list at left)**

### **ESA and MMPA Cetaceans/Pinnipeds**

**See list at left and consult the NMFS Long Beach office  
562-980-4000**

MMPA Cetaceans - **X**

MMPA Pinnipeds - **X**

Quad Name **Seaside**

Quad Number **36121-E7**

## **ESA Anadromous Fish**

SONCC Coho ESU (T) -

CCC Coho ESU (E) -

CC Chinook Salmon ESU (T) -

CVSR Chinook Salmon ESU (T) -

SRWR Chinook Salmon ESU (E) -

NC Steelhead DPS (T) -

CCC Steelhead DPS (T) -

SCCC Steelhead DPS (T) - **X**

SC Steelhead DPS (E) -

CCV Steelhead DPS (T) -

Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

## **ESA Anadromous Fish Critical Habitat**

SONCC Coho Critical Habitat -

CCC Coho Critical Habitat -  
CC Chinook Salmon Critical Habitat -  
CVSR Chinook Salmon Critical Habitat -  
SRWR Chinook Salmon Critical Habitat -  
NC Steelhead Critical Habitat -  
CCC Steelhead Critical Habitat -  
SCCC Steelhead Critical Habitat - X  
SC Steelhead Critical Habitat -  
CCV Steelhead Critical Habitat -  
Eulachon Critical Habitat -  
sDPS Green Sturgeon Critical Habitat - X

### **ESA Marine Invertebrates**

Range Black Abalone (E) - X  
Range White Abalone (E) -

### **ESA Marine Invertebrates Critical Habitat**

Black Abalone Critical Habitat -

### **ESA Sea Turtles**

East Pacific Green Sea Turtle (T) - X  
Olive Ridley Sea Turtle (T/E) - X  
Leatherback Sea Turtle (E) - X  
North Pacific Loggerhead Sea Turtle (E) - X

### **ESA Whales**

Blue Whale (E) - X  
Fin Whale (E) - X  
Humpback Whale (E) - X  
Southern Resident Killer Whale (E) - X  
North Pacific Right Whale (E) - X  
Sei Whale (E) - X  
Sperm Whale (E) - X

### **ESA Pinnipeds**

Guadalupe Fur Seal (T) - **X**  
Steller Sea Lion Critical Habitat -

### **Essential Fish Habitat**

Coho EFH -  
Chinook Salmon EFH -  
Groundfish EFH - **X**  
Coastal Pelagics EFH - **X**  
Highly Migratory Species EFH - **X**

### **MMPA Species (See list at left)**

#### **ESA and MMPA Cetaceans/Pinnipeds**

**See list at left and consult the NMFS Long Beach office  
562-980-4000**

MMPA Cetaceans - **X**  
MMPA Pinnipeds - **X**

Quad Name **Mount Carmel**  
Quad Number **36121-D7**

### **ESA Anadromous Fish**

SONCC Coho ESU (T) -  
CCC Coho ESU (E) -  
CC Chinook Salmon ESU (T) -  
CVSR Chinook Salmon ESU (T) -  
SRWR Chinook Salmon ESU (E) -  
NC Steelhead DPS (T) -  
CCC Steelhead DPS (T) -  
SCCC Steelhead DPS (T) - **X**  
SC Steelhead DPS (E) -  
CCV Steelhead DPS (T) -  
Eulachon (T) -  
sDPS Green Sturgeon (T) -

## **ESA Anadromous Fish Critical Habitat**

SONCC Coho Critical Habitat -  
CCC Coho Critical Habitat -  
CC Chinook Salmon Critical Habitat -  
CVSR Chinook Salmon Critical Habitat -  
SRWR Chinook Salmon Critical Habitat -  
NC Steelhead Critical Habitat -  
CCC Steelhead Critical Habitat -  
SCCC Steelhead Critical Habitat - **X**  
SC Steelhead Critical Habitat -  
CCV Steelhead Critical Habitat -  
Eulachon Critical Habitat -  
sDPS Green Sturgeon Critical Habitat -

## **ESA Marine Invertebrates**

Range Black Abalone (E) -  
Range White Abalone (E) -

## **ESA Marine Invertebrates Critical Habitat**

Black Abalone Critical Habitat -

## **ESA Sea Turtles**

East Pacific Green Sea Turtle (T) -  
Olive Ridley Sea Turtle (T/E) -  
Leatherback Sea Turtle (E) -  
North Pacific Loggerhead Sea Turtle (E) -

## **ESA Whales**

Blue Whale (E) -  
Fin Whale (E) -  
Humpback Whale (E) -  
Southern Resident Killer Whale (E) -  
North Pacific Right Whale (E) -  
Sei Whale (E) -  
Sperm Whale (E) -

## **ESA Pinnipeds**

Guadalupe Fur Seal (T) -  
Steller Sea Lion Critical Habitat -

## **Essential Fish Habitat**

Coho EFH -  
Chinook Salmon EFH -  
Groundfish EFH -  
Coastal Pelagics EFH -  
Highly Migratory Species EFH -

## **MMPA Species (See list at left)**

### **ESA and MMPA Cetaceans/Pinnipeds**

**See list at left and consult the NMFS Long Beach office  
562-980-4000**

MMPA Cetaceans -  
MMPA Pinnipeds -

Quad Name **Soberanes Point**

Quad Number **36121-D8**

## **ESA Anadromous Fish**

SONCC Coho ESU (T) -  
CCC Coho ESU (E) -  
CC Chinook Salmon ESU (T) -  
CVSR Chinook Salmon ESU (T) -  
SRWR Chinook Salmon ESU (E) -  
NC Steelhead DPS (T) -  
CCC Steelhead DPS (T) -  
SCCC Steelhead DPS (T) - **X**  
SC Steelhead DPS (E) -  
CCV Steelhead DPS (T) -  
Eulachon (T) -

sDPS Green Sturgeon (T) - **X**

### **ESA Anadromous Fish Critical Habitat**

SONCC Coho Critical Habitat -  
CCC Coho Critical Habitat -  
CC Chinook Salmon Critical Habitat -  
CVSR Chinook Salmon Critical Habitat -  
SRWR Chinook Salmon Critical Habitat -  
NC Steelhead Critical Habitat -  
CCC Steelhead Critical Habitat -  
SCCC Steelhead Critical Habitat - **X**  
SC Steelhead Critical Habitat -  
CCV Steelhead Critical Habitat -  
Eulachon Critical Habitat -  
sDPS Green Sturgeon Critical Habitat -

### **ESA Marine Invertebrates**

Range Black Abalone (E) - **X**  
Range White Abalone (E) -

### **ESA Marine Invertebrates Critical Habitat**

Black Abalone Critical Habitat - **X**

### **ESA Sea Turtles**

East Pacific Green Sea Turtle (T) - **X**  
Olive Ridley Sea Turtle (T/E) - **X**  
Leatherback Sea Turtle (E) - **X**  
North Pacific Loggerhead Sea Turtle (E) - **X**

### **ESA Whales**

Blue Whale (E) - **X**  
Fin Whale (E) - **X**  
Humpback Whale (E) - **X**  
Southern Resident Killer Whale (E) - **X**

North Pacific Right Whale (E) - **X**

Sei Whale (E) - **X**

Sperm Whale (E) - **X**

### **ESA Pinnipeds**

Guadalupe Fur Seal (T) - **X**

Steller Sea Lion Critical Habitat -

### **Essential Fish Habitat**

Coho EFH -

Chinook Salmon EFH -

Groundfish EFH - **X**

Coastal Pelagics EFH - **X**

Highly Migratory Species EFH - **X**

### **MMPA Species (See list at left)**

### **ESA and MMPA Cetaceans/Pinnipeds**

**See list at left and consult the NMFS Long Beach office  
562-980-4000**

MMPA Cetaceans - **X**

MMPA Pinnipeds - **X**







# Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad (Monterey (3612158) OR Marina (3612167) OR Seaside (3612157) OR Mt. Carmel (3612147) OR Soberanes Point (3612148))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	Candidate Endangered	G2G3	S1S2	SSC
<i>Allium hickmanii</i> Hickman's onion	PMLIL02140	None	None	G2	S2	1B.2
<i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
<i>Anniella pulchra</i> northern California legless lizard	ARACC01020	None	None	G3	S3	SSC
<i>Arctostaphylos edmundsii</i> Little Sur manzanita	PDERI04260	None	None	G2	S2	1B.2
<i>Arctostaphylos hookeri ssp. hookeri</i> Hooker's manzanita	PDERI040J1	None	None	G3T2	S2	1B.2
<i>Arctostaphylos montereyensis</i> Toro manzanita	PDERI040R0	None	None	G2?	S2?	1B.2
<i>Arctostaphylos pajaroensis</i> Pajaro manzanita	PDERI04100	None	None	G1	S1	1B.1
<i>Arctostaphylos pumila</i> sandmat manzanita	PDERI04180	None	None	G1	S1	1B.2
<i>Astragalus tener var. titi</i> coastal dunes milk-vetch	PDFAB0F8R2	Endangered	Endangered	G2T1	S1	1B.1
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Bombus caliginosus</i> obscure bumble bee	IIHYM24380	None	None	G4?	S1S2	
<i>Bombus occidentalis</i> western bumble bee	IIHYM24250	None	None	G2G3	S1	
<i>Bryoria spiralifera</i> twisted horsehair lichen	NLTEST5460	None	None	G3	S1S2	1B.1
<i>Buteo regalis</i> ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
<i>Castilleja ambigua var. insalutata</i> pink Johnny-nip	PDSCR0D403	None	None	G4T2	S2	1B.1
<i>Central Dune Scrub</i> Central Dune Scrub	CTT21320CA	None	None	G2	S2.2	
<i>Central Maritime Chaparral</i> Central Maritime Chaparral	CTT37C20CA	None	None	G2	S2.2	
<i>Centromadia parryi ssp. congdonii</i> Congdon's tarplant	PDAST4R0P1	None	None	G3T2	S2	1B.1



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



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Charadrius alexandrinus nivosus</i></b> western snowy plover	ABNNB03031	Threatened	None	G3T3	S2S3	SSC
<b><i>Chorizanthe minutiflora</i></b> Fort Ord spineflower	PDPGN04100	None	None	G1	S1	1B.2
<b><i>Chorizanthe pungens var. pungens</i></b> Monterey spineflower	PDPGN040M2	Threatened	None	G2T2	S2	1B.2
<b><i>Clarkia jolonensis</i></b> Jolon clarkia	PDONA050L0	None	None	G2	S2	1B.2
<b><i>Coelus globosus</i></b> globose dune beetle	IICOL4A010	None	None	G1G2	S1S2	
<b><i>Collinsia multicolor</i></b> San Francisco collinsia	PDSCR0H0B0	None	None	G2	S2	1B.2
<b><i>Cordylanthus rigidus ssp. littoralis</i></b> seaside bird's-beak	PDSCR0J0P2	None	Endangered	G5T2	S2	1B.1
<b><i>Corynorhinus townsendii</i></b> Townsend's big-eared bat	AMACC08010	None	None	G3G4	S2	SSC
<b><i>Coturnicops noveboracensis</i></b> yellow rail	ABNME01010	None	None	G4	S1S2	SSC
<b><i>Cypseloides niger</i></b> black swift	ABNUA01010	None	None	G4	S2	SSC
<b><i>Danaus plexippus pop. 1</i></b> monarch - California overwintering population	IILEPP2012	None	None	G4T2T3	S2S3	
<b><i>Delphinium californicum ssp. interius</i></b> Hospital Canyon larkspur	PDRAN0B0A2	None	None	G3T3	S3	1B.2
<b><i>Delphinium hutchinsoniae</i></b> Hutchinson's larkspur	PDRAN0B0V0	None	None	G2	S2	1B.2
<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>Ericameria fasciculata</i></b> Eastwood's goldenbush	PDAST3L080	None	None	G2	S2	1B.1
<b><i>Eriogonum nortonii</i></b> Pinnacles buckwheat	PDPGN08470	None	None	G2	S2	1B.3
<b><i>Erysimum ammophilum</i></b> sand-loving wallflower	PDBRA16010	None	None	G2	S2	1B.2
<b><i>Erysimum menziesii</i></b> Menzies' wallflower	PDBRA160R0	Endangered	Endangered	G1	S1	1B.1
<b><i>Eucyclogobius newberryi</i></b> tidewater goby	AFCQN04010	Endangered	None	G3	S3	SSC
<b><i>Euphilotes enoptes smithi</i></b> Smith's blue butterfly	IILEPG2026	Endangered	None	G5T1T2	S1S2	



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



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Fritillaria liliacea</i></b> fragrant fritillary	PMLIL0V0C0	None	None	G2	S2	1B.2
<b><i>Gilia tenuiflora ssp. arenaria</i></b> Monterey gilia	PDPLM041P2	Endangered	Threatened	G3G4T2	S2	1B.2
<b><i>Hesperocyparis goveniana</i></b> Gowen cypress	PGCUP04031	Threatened	None	G1	S1	1B.2
<b><i>Hesperocyparis macrocarpa</i></b> Monterey cypress	PGCUP04060	None	None	G1	S1	1B.2
<b><i>Horkelia cuneata var. sericea</i></b> Kellogg's horkelia	PDROS0W043	None	None	G4T1?	S1?	1B.1
<b><i>Horkelia marinensis</i></b> Point Reyes horkelia	PDROS0W0B0	None	None	G2	S2	1B.2
<b><i>Lasiurus cinereus</i></b> hoary bat	AMACC05030	None	None	G5	S4	
<b><i>Lasthenia conjugens</i></b> Contra Costa goldfields	PDAST5L040	Endangered	None	G1	S1	1B.1
<b><i>Laterallus jamaicensis coturniculus</i></b> California black rail	ABNME03041	None	Threatened	G3G4T1	S1	FP
<b><i>Layia carnosa</i></b> beach layia	PDAST5N010	Endangered	Endangered	G2	S2	1B.1
<b><i>Lindleriella occidentalis</i></b> California lindleriella	ICBRA06010	None	None	G2G3	S2S3	
<b><i>Lupinus tidestromii</i></b> Tidestrom's lupine	PDFAB2B3Y0	Endangered	Endangered	G1	S1	1B.1
<b><i>Malacothamnus palmeri var. involucratus</i></b> Carmel Valley bush-mallow	PDMAL0Q0B1	None	None	G3T2Q	S2	1B.2
<b><i>Malacothrix saxatilis var. arachnoidea</i></b> Carmel Valley malacothrix	PDAST660C2	None	None	G5T2	S2	1B.2
<b><i>Microseris paludosa</i></b> marsh microseris	PDAST6E0D0	None	None	G2	S2	1B.2
<b><i>Monardella sinuata ssp. nigrescens</i></b> northern curly-leaved monardella	PDLAM18162	None	None	G3T2	S2	1B.2
<b><i>Monolopia gracilens</i></b> woodland woollythreads	PDAST6G010	None	None	G3	S3	1B.2
<b>Monterey Cypress Forest</b> Monterey Cypress Forest	CTT83150CA	None	None	G1	S1.2	
<b>Monterey Pine Forest</b> Monterey Pine Forest	CTT83130CA	None	None	G1	S1.1	
<b>Monterey Pygmy Cypress Forest</b> Monterey Pygmy Cypress Forest	CTT83162CA	None	None	G1	S1.1	
<b>Northern Bishop Pine Forest</b> Northern Bishop Pine Forest	CTT83121CA	None	None	G2	S2.2	



Selected Elements by Scientific Name  
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Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b>Northern Coastal Salt Marsh</b> Northern Coastal Salt Marsh	CTT52110CA	None	None	G3	S3.2	
<b>Oceanodroma homochroa</b> ashy storm-petrel	ABNDC04030	None	None	G2	S2	SSC
<b>Oncorhynchus mykiss irideus pop. 9</b> steelhead - south-central California coast DPS	AFCHA0209H	Threatened	None	G5T2Q	S2	
<b>Pelecanus occidentalis californicus</b> California brown pelican	ABNFC01021	Delisted	Delisted	G4T3T4	S3	FP
<b>Phrynosoma blainvillii</b> coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
<b>Pinus radiata</b> Monterey pine	PGPIN040V0	None	None	G1	S1	1B.1
<b>Piperia yadonii</b> Yadon's rein orchid	PMORC1X070	Endangered	None	G1	S1	1B.1
<b>Plagiobothrys uncinatus</b> hooked popcornflower	PDBOR0V170	None	None	G2	S2	1B.2
<b>Potentilla hickmanii</b> Hickman's cinquefoil	PDR0S1B0U0	Endangered	Endangered	G1	S1	1B.1
<b>Ramalina thrausta</b> angel's hair lichen	NLLEC3S340	None	None	G5	S2?	2B.1
<b>Rana draytonii</b> California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
<b>Reithrodontomys megalotis distichlis</b> Salinas harvest mouse	AMAFF02032	None	None	G5T1	S1	
<b>Riparia riparia</b> bank swallow	ABPAU08010	None	Threatened	G5	S2	
<b>Rosa pinetorum</b> pine rose	PDR0S1J0W0	None	None	G2	S2	1B.2
<b>Sidalcea malachroides</b> maple-leaved checkerbloom	PDMAL110E0	None	None	G3	S3	4.2
<b>Stebbinsoseris decipiens</b> Santa Cruz microseris	PDAST6E050	None	None	G2	S2	1B.2
<b>Taricha torosa</b> Coast Range newt	AAAAF02032	None	None	G4	S4	SSC
<b>Taxidea taxus</b> American badger	AMAJF04010	None	None	G5	S3	SSC
<b>Tortula californica</b> California screw moss	NBMUS7L090	None	None	G2G3	S2S3	1B.2
<b>Trifolium buckwestiorum</b> Santa Cruz clover	PDFAB402W0	None	None	G2	S2	1B.1
<b>Trifolium hydrophilum</b> saline clover	PDFAB400R5	None	None	G2	S2	1B.2



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<b>Species</b>	<b>Element Code</b>	<b>Federal Status</b>	<b>State Status</b>	<b>Global Rank</b>	<b>State Rank</b>	<b>Rare Plant Rank/CDFW SSC or FP</b>
<b><i>Trifolium polyodon</i></b> Pacific Grove clover	PDFAB402H0	None	Rare	G1	S1	1B.1
<b><i>Trifolium trichocalyx</i></b> Monterey clover	PDFAB402J0	Endangered	Endangered	G1	S1	1B.1
<b>Valley Needlegrass Grassland</b> Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	

**Record Count: 85**



## Plant List

### Inventory of Rare and Endangered Plants

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

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Found in Quads 3612167, 3612158, 3612157 3612148 and 3612147;

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Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
<a href="#">Agrostis lacuna- vernalis</a>	vernal pool bent grass	Poaceae	annual herb	Apr-May	1B.1	S1	G1
<a href="#">Allium hickmanii</a>	Hickman's onion	Alliaceae	perennial bulbiferous herb	Mar-May	1B.2	S2	G2
<a href="#">Arctostaphylos edmundsii</a>	Little Sur manzanita	Ericaceae	perennial evergreen shrub	Nov-Apr(May)	1B.2	S2	G2
<a href="#">Arctostaphylos hookeri ssp. hookeri</a>	Hooker's manzanita	Ericaceae	perennial evergreen shrub	Jan-Jun	1B.2	S2	G3T2
<a href="#">Arctostaphylos montereyensis</a>	Toro manzanita	Ericaceae	perennial evergreen shrub	Feb-Mar	1B.2	S2?	G2?
<a href="#">Arctostaphylos pajaroensis</a>	Pajaro manzanita	Ericaceae	perennial evergreen shrub	Dec-Mar	1B.1	S1	G1
<a href="#">Arctostaphylos pumila</a>	sandmat manzanita	Ericaceae	perennial evergreen shrub	Feb-May	1B.2	S1	G1
<a href="#">Astragalus nuttallii var. nuttallii</a>	ocean bluff milk- vetch	Fabaceae	perennial herb	Jan-Nov	4.2	S4	G4T4
<a href="#">Astragalus tener var. titi</a>	coastal dunes milk-vetch	Fabaceae	annual herb	Mar-May	1B.1	S1	G2T1
<a href="#">Bryoria spiralifera</a>	twisted horsehair lichen	Parmeliaceae	fruticose lichen (epiphytic)		1B.1	S1S2	G3
<a href="#">Castilleja ambigua var. insalutata</a>	pink Johnny-nip	Orobanchaceae	annual herb (hemiparasitic)	May-Aug	1B.1	S2	G4T2
<a href="#">Castilleja latifolia</a>	Monterey Coast paintbrush	Orobanchaceae	perennial herb (hemiparasitic)	Feb-Sep	4.3	S4	G4
<a href="#">Ceanothus gloriosus var. gloriosus</a>	Point Reyes ceanothus	Rhamnaceae	perennial evergreen shrub	Mar-May	4.3	S4	G4T4
<a href="#">Ceanothus rigidus</a>	Monterey ceanothus	Rhamnaceae	perennial evergreen shrub	Feb-Apr(Jun)	4.2	S4	G4
<a href="#">Centromadia parryi ssp. congdonii</a>	Congdon's tarplant	Asteraceae	annual herb	May-Oct(Nov)	1B.1	S2	G3T2
<a href="#">Chorizanthe douglasii</a>	Douglas' spineflower	Polygonaceae	annual herb	Apr-Jul	4.3	S4	G4
<a href="#">Chorizanthe pungens var. pungens</a>	Monterey spineflower	Polygonaceae	annual herb	Apr-Jun(Jul-Aug)	1B.2	S2	G2T2

<a href="#"><u>Chorizanthe robusta var. robusta</u></a>	robust spineflower	Polygonaceae	annual herb	Apr-Sep	1B.1	S1	G2T1
<a href="#"><u>Clarkia jolonensis</u></a>	Jolon clarkia	Onagraceae	annual herb	Apr-Jun	1B.2	S2	G2
<a href="#"><u>Clarkia lewisii</u></a>	Lewis' clarkia	Onagraceae	annual herb	May-Jul	4.3	S4	G4
<a href="#"><u>Collinsia multicolor</u></a>	San Francisco collinsia	Plantaginaceae	annual herb	(Feb)Mar-May	1B.2	S2	G2
<a href="#"><u>Cordylanthus rigidus ssp. littoralis</u></a>	seaside bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	Apr-Oct	1B.1	S2	G5T2
<a href="#"><u>Corethrogyne leucophylla</u></a>	branching beach aster	Asteraceae	perennial herb	May,Jul,Aug,Sep,Oct,Dec	3.2	S3	G3Q
<a href="#"><u>Cryptantha rattanii</u></a>	Rattan's cryptantha	Boraginaceae	annual herb	Apr-Jul	4.3	S4	G4
<a href="#"><u>Delphinium californicum ssp. interius</u></a>	Hospital Canyon larkspur	Ranunculaceae	perennial herb	Apr-Jun	1B.2	S3	G3T3
<a href="#"><u>Delphinium hutchinsoniae</u></a>	Hutchinson's larkspur	Ranunculaceae	perennial herb	Mar-Jun	1B.2	S2	G2
<a href="#"><u>Delphinium umbraculorum</u></a>	umbrella larkspur	Ranunculaceae	perennial herb	Apr-Jun	1B.3	S3	G3
<a href="#"><u>Ericameria fasciculata</u></a>	Eastwood's goldenbush	Asteraceae	perennial evergreen shrub	Jul-Oct	1B.1	S2	G2
<a href="#"><u>Eriogonum elegans</u></a>	elegant wild buckwheat	Polygonaceae	annual herb	May-Nov	4.3	S3S4	G3G4
<a href="#"><u>Eriogonum nortonii</u></a>	Pinnacles buckwheat	Polygonaceae	annual herb	(Apr)May-Aug(Sep)	1B.3	S2	G2
<a href="#"><u>Erysimum ammophilum</u></a>	sand-loving wallflower	Brassicaceae	perennial herb	Feb-Jun	1B.2	S2	G2
<a href="#"><u>Erysimum menziesii</u></a>	Menzies' wallflower	Brassicaceae	perennial herb	Mar-Sep	1B.1	S1	G1
<a href="#"><u>Fritillaria liliacea</u></a>	fragrant fritillary	Liliaceae	perennial bulbiferous herb	Feb-Apr	1B.2	S2	G2
<a href="#"><u>Galium clementis</u></a>	Santa Lucia bedstraw	Rubiaceae	perennial herb	(Apr)May-Jul	1B.3	S3	G3
<a href="#"><u>Gilia tenuiflora ssp. arenaria</u></a>	Monterey gilia	Polemoniaceae	annual herb	Apr-Jun	1B.2	S2	G3G4T2
<a href="#"><u>Grindelia hirsutula var. maritima</u></a>	San Francisco gumplant	Asteraceae	perennial herb	Jun-Sep	3.2	S1	G5T1Q
<a href="#"><u>Hesperocyparis goveniana</u></a>	Gowen cypress	Cupressaceae	perennial evergreen tree		1B.2	S1	G1
<a href="#"><u>Hesperocyparis macrocarpa</u></a>	Monterey cypress	Cupressaceae	perennial evergreen tree		1B.2	S1	G1
<a href="#"><u>Horkelia cuneata var. sericea</u></a>	Kellogg's horkelia	Rosaceae	perennial herb	Apr-Sep	1B.1	S1?	G4T1?
<a href="#"><u>Horkelia marinensis</u></a>	Point Reyes horkelia	Rosaceae	perennial herb	May-Sep	1B.2	S2	G2
<a href="#"><u>Iris longipetala</u></a>	coast iris	Iridaceae	perennial rhizomatous herb	Mar-May	4.2	S3	G3
<a href="#"><u>Lasthenia conjugens</u></a>	Contra Costa goldfields	Asteraceae	annual herb	Mar-Jun	1B.1	S1	G1
<a href="#"><u>Layia carnosa</u></a>	beach layia	Asteraceae	annual herb	Mar-Jul	1B.1	S2	G2



<a href="#"><u>Leptosiphon grandiflorus</u></a>	large-flowered leptosiphon	Polemoniaceae	annual herb	Apr-Aug	4.2	S3S4	G3G4
<a href="#"><u>Lomatium parvifolium</u></a>	small-leaved lomatium	Apiaceae	perennial herb	Jan-Jun	4.2	S4	G4
<a href="#"><u>Lupinus tidestromii</u></a>	Tidestrom's lupine	Fabaceae	perennial rhizomatous herb	Apr-Jun	1B.1	S1	G1
<a href="#"><u>Malacothamnus palmeri var. involucreatus</u></a>	Carmel Valley bush-mallow	Malvaceae	perennial deciduous shrub	Apr-Oct	1B.2	S2	G3T2Q
<a href="#"><u>Malacothamnus palmeri var. palmeri</u></a>	Santa Lucia bush-mallow	Malvaceae	perennial deciduous shrub	May-Jul	1B.2	S2	G3T2Q
<a href="#"><u>Malacothrix saxatilis var. arachnoidea</u></a>	Carmel Valley malacothrix	Asteraceae	perennial rhizomatous herb	(Mar)Jun-Dec	1B.2	S2	G5T2
<a href="#"><u>Micropus amphibolus</u></a>	Mt. Diablo cottonweed	Asteraceae	annual herb	Mar-May	3.2	S3S4	G3G4
<a href="#"><u>Microseris paludosa</u></a>	marsh microseris	Asteraceae	perennial herb	Apr-Jun(Jul)	1B.2	S2	G2
<a href="#"><u>Monardella antonina ssp. antonina</u></a>	San Antonio Hills monardella	Lamiaceae	perennial rhizomatous herb	Jun-Aug	3	S1S3	G4T1T3Q
<a href="#"><u>Monardella sinuata ssp. nigrescens</u></a>	northern curly-leaved monardella	Lamiaceae	annual herb	(Apr)May-Jul(Aug-Sep)	1B.2	S2	G3T2
<a href="#"><u>Monolopia gracilens</u></a>	woodland woolythreads	Asteraceae	annual herb	(Feb)Mar-Jul	1B.2	S3	G3
<a href="#"><u>Ophioglossum californicum</u></a>	California adder's-tongue	Ophioglossaceae	perennial rhizomatous herb	(Dec)Jan-Jun	4.2	S4	G4
<a href="#"><u>Perideridia gairdneri ssp. gairdneri</u></a>	Gairdner's yampah	Apiaceae	perennial herb	Jun-Oct	4.2	S3S4	G5T3T4
<a href="#"><u>Phacelia ramosissima var. austrolitoralis</u></a>	south coast branching phacelia	Hydrophyllaceae	perennial herb	Mar-Aug	3.2	S3	G5?T3
<a href="#"><u>Pinus radiata</u></a>	Monterey pine	Pinaceae	perennial evergreen tree		1B.1	S1	G1
<a href="#"><u>Piperia michaelii</u></a>	Michael's rein orchid	Orchidaceae	perennial herb	Apr-Aug	4.2	S3	G3
<a href="#"><u>Piperia yadonii</u></a>	Yadon's rein orchid	Orchidaceae	perennial herb	(Feb)May-Aug	1B.1	S1	G1
<a href="#"><u>Plagiobothrys chorisianus var. hickmanii</u></a>	Hickman's popcornflower	Boraginaceae	annual herb	Apr-Jun	4.2	S3	G3T3Q
<a href="#"><u>Plagiobothrys uncinatus</u></a>	hooked popcornflower	Boraginaceae	annual herb	Apr-May	1B.2	S2	G2
<a href="#"><u>Potentilla hickmanii</u></a>	Hickman's cinquefoil	Rosaceae	perennial herb	Apr-Aug	1B.1	S1	G1
<a href="#"><u>Ramalina thrausta</u></a>	angel's hair lichen	Ramalinaceae	fruticose lichen (epiphytic)		2B.1	S2?	G5
<a href="#"><u>Ranunculus lobbii</u></a>	Lobb's aquatic buttercup	Ranunculaceae	annual herb (aquatic)	Feb-May	4.2	S3	G4
<a href="#"><u>Rosa pinetorum</u></a>	pine rose	Rosaceae	perennial shrub	May,Jul	1B.2	S2	G2
<a href="#"><u>Sidalcea malachroides</u></a>	maple-leaved checkerbloom	Malvaceae	perennial herb	(Mar)Apr-Aug	4.2	S3	G3

<a href="#">Stebbinsoseris decipiens</a>	Santa Cruz microseris	Asteraceae	annual herb	Apr-May	1B.2	S2	G2
<a href="#">Tortula californica</a>	California screw-moss	Pottiaceae	moss		1B.2	S2S3	G2G3
<a href="#">Trifolium buckwestiorum</a>	Santa Cruz clover	Fabaceae	annual herb	Apr-Oct	1B.1	S2	G2
<a href="#">Trifolium hydrophilum</a>	saline clover	Fabaceae	annual herb	Apr-Jun	1B.2	S2	G2
<a href="#">Trifolium polyodon</a>	Pacific Grove clover	Fabaceae	annual herb	Apr-Jun(Jul)	1B.1	S1	G1
<a href="#">Trifolium trichocalyx</a>	Monterey clover	Fabaceae	annual herb	Apr-Jun	1B.1	S1	G1

### Suggested Citation

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