

## IPaC

U.S. Fish & Wildlife Service

# 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

Colusa, Glenn and Tehama counties, California



## Local offices

### Arcata Fish And Wildlife Office

☎ (707) 822-7201

📠 (707) 822-8411

1655 Heindon Road  
Arcata, CA 95521-4573

### Sacramento Fish And Wildlife Office

☎ (916) 414-6600

📠 (916) 414-6713

Federal Building  
2800 Cottage Way, Room W-2605  
Sacramento, CA 95825-1846

### Yreka Fish And Wildlife Office

☎ (530) 842-5763

📠 (530) 842-4517

1829 South Oregon Street  
Yreka, CA 96097-3446

Not for consultation

# 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> are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service.

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.

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

## Mammals

NAME	STATUS
Gray Wolf <i>Canis lupus</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/4488">https://ecos.fws.gov/ecp/species/4488</a>	Endangered

## Birds

NAME	STATUS
Northern Spotted Owl <i>Strix occidentalis caurina</i> There is a <b>final critical habitat</b> designated for this species. Your location overlaps the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/1123">https://ecos.fws.gov/ecp/species/1123</a>	Threatened
Yellow-billed Cuckoo <i>Coccyzus americanus</i> There is a <b>proposed critical habitat</b> for this species. Your location overlaps the proposed critical habitat. <a href="https://ecos.fws.gov/ecp/species/3911">https://ecos.fws.gov/ecp/species/3911</a>	Threatened

## Reptiles

NAME	STATUS
Giant Garter Snake <i>Thamnophis gigas</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/4482">https://ecos.fws.gov/ecp/species/4482</a>	Threatened

## Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is a <b>final critical habitat</b> designated for this species. Your location is outside the designated 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> There is a <b>final critical habitat</b> designated for this species. Your location is outside the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/2076">https://ecos.fws.gov/ecp/species/2076</a>	Threatened

Sierra Nevada Yellow-legged Frog *Rana sierrae* Endangered  
 There is a **final critical habitat** designated for this species.  
 Your location is outside the designated critical habitat.  
<https://ecos.fws.gov/ecp/species/9529>

## Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is a <b>final critical habitat</b> designated for this species. Your location is outside the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/321">https://ecos.fws.gov/ecp/species/321</a>	Threatened
Longfin Smelt <i>Spirinchus thaleichthys</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/9011">https://ecos.fws.gov/ecp/species/9011</a>	Candidate
Steelhead <i>Oncorhynchus (=Salmo) mykiss</i> There is a <b>final critical habitat</b> designated for this species. Your location overlaps the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/1007">https://ecos.fws.gov/ecp/species/1007</a>	Threatened

## Insects

NAME	STATUS
Valley Elderberry Longhorn Beetle <i>Desmocerus californicus dimorphus</i> There is a <b>final critical habitat</b> designated for this species. Your location is outside the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/7850">https://ecos.fws.gov/ecp/species/7850</a>	Threatened

## Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> There is a <b>final critical habitat</b> designated for this species. Your location overlaps the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/8246">https://ecos.fws.gov/ecp/species/8246</a>	Endangered

Shasta Crayfish <i>Pacifastacus fortis</i>	Endangered
No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/8284">https://ecos.fws.gov/ecp/species/8284</a>	
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i>	Threatened
There is a <b>final critical habitat</b> designated for this species. Your location overlaps the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/498">https://ecos.fws.gov/ecp/species/498</a>	
Vernal Pool Tadpole Shrimp <i>Lepidurus packardi</i>	Endangered
There is a <b>final critical habitat</b> designated for this species. Your location overlaps the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/2246">https://ecos.fws.gov/ecp/species/2246</a>	

## Flowering Plants

NAME	STATUS
Burke's Goldfields <i>Lasthenia burkei</i>	Endangered
No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/4338">https://ecos.fws.gov/ecp/species/4338</a>	
Butte County Meadowfoam <i>Limnanthes floccosa</i> ssp. <i>californica</i>	Endangered
There is a <b>final critical habitat</b> designated for this species. Your location overlaps the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/4223">https://ecos.fws.gov/ecp/species/4223</a>	
Colusa Grass <i>Neostapfia colusana</i>	Threatened
There is a <b>final critical habitat</b> designated for this species. Your location is outside the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/5690">https://ecos.fws.gov/ecp/species/5690</a>	
Contra Costa Goldfields <i>Lasthenia conjugens</i>	Endangered
There is a <b>final critical habitat</b> designated for this species. Your location is outside the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/7058">https://ecos.fws.gov/ecp/species/7058</a>	

Greene's Tuctoria <i>Tuctoria greenei</i>	Endangered
There is a <b>final critical habitat</b> designated for this species. Your location overlaps the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/1573">https://ecos.fws.gov/ecp/species/1573</a>	
Hairy Orcutt Grass <i>Orcuttia pilosa</i>	Endangered
There is a <b>final critical habitat</b> designated for this species. Your location overlaps the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/2262">https://ecos.fws.gov/ecp/species/2262</a>	
Hoover's Spurge <i>Chamaesyce hooveri</i>	Threatened
There is a <b>final critical habitat</b> designated for this species. Your location overlaps the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/3019">https://ecos.fws.gov/ecp/species/3019</a>	
Keck's Checker-mallow <i>Sidalcea keckii</i>	Endangered
There is a <b>final critical habitat</b> designated for this species. Your location is outside the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/5704">https://ecos.fws.gov/ecp/species/5704</a>	
Palmate-bracted Bird's Beak <i>Cordylanthus palmatus</i>	Endangered
No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/1616">https://ecos.fws.gov/ecp/species/1616</a>	
Showy Indian Clover <i>Trifolium amoenum</i>	Endangered
No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/6459">https://ecos.fws.gov/ecp/species/6459</a>	
Slender Orcutt Grass <i>Orcuttia tenuis</i>	Threatened
There is a <b>final critical habitat</b> designated for this species. Your location overlaps the designated critical habitat. <a href="https://ecos.fws.gov/ecp/species/1063">https://ecos.fws.gov/ecp/species/1063</a>	
Water Howellia <i>Howellia aquatilis</i>	Threatened
No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/7090">https://ecos.fws.gov/ecp/species/7090</a>	

## Conifers and Cycads

NAME

STATUS

Whitebark Pine *Pinus albicaulis* Candidate  
 No critical habitat has been designated for this species.  
<https://ecos.fws.gov/ecp/species/1748>

## Critical habitats

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

This location overlaps the critical habitat for the following species:

NAME	TYPE
Butte County Meadowfoam <i>Limnanthes floccosa</i> ssp. <i>californica</i> <a href="https://ecos.fws.gov/ecp/species/4223#crithab">https://ecos.fws.gov/ecp/species/4223#crithab</a>	Final designated
Chinook Salmon <i>Oncorhynchus</i> (=Salmo) <i>tshawytscha</i> California Coastal ESU For information on why this critical habitat appears for your project, even though Chinook Salmon is not on the list of potentially affected species at this location, contact the local field office. <a href="https://ecos.fws.gov/ecp/species/8091#crithab">https://ecos.fws.gov/ecp/species/8091#crithab</a>	Final designated
Chinook Salmon <i>Oncorhynchus</i> (=Salmo) <i>tshawytscha</i> Central Valley spring-run ESU For information on why this critical habitat appears for your project, even though Chinook Salmon is not on the list of potentially affected species at this location, contact the local field office. <a href="https://ecos.fws.gov/ecp/species/8091#crithab">https://ecos.fws.gov/ecp/species/8091#crithab</a>	Final designated
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> <a href="https://ecos.fws.gov/ecp/species/8246#crithab">https://ecos.fws.gov/ecp/species/8246#crithab</a>	Final designated
Greene's Tuctoria <i>Tuctoria greenei</i> <a href="https://ecos.fws.gov/ecp/species/1573#crithab">https://ecos.fws.gov/ecp/species/1573#crithab</a>	Final designated



Hairy Orcutt Grass <i>Orcuttia pilosa</i> <a href="https://ecos.fws.gov/ecp/species/2262#crithab">https://ecos.fws.gov/ecp/species/2262#crithab</a>	Final designated
Hoover's Spurge <i>Chamaesyce hooveri</i> <a href="https://ecos.fws.gov/ecp/species/3019#crithab">https://ecos.fws.gov/ecp/species/3019#crithab</a>	Final designated
Northern Spotted Owl <i>Strix occidentalis caurina</i> <a href="https://ecos.fws.gov/ecp/species/1123#crithab">https://ecos.fws.gov/ecp/species/1123#crithab</a>	Final designated
Slender Orcutt Grass <i>Orcuttia tenuis</i> <a href="https://ecos.fws.gov/ecp/species/1063#crithab">https://ecos.fws.gov/ecp/species/1063#crithab</a>	Final designated
Steelhead <i>Oncorhynchus</i> (=Salmo) mykiss Southern California DPS <a href="https://ecos.fws.gov/ecp/species/1007#crithab">https://ecos.fws.gov/ecp/species/1007#crithab</a>	Final designated
Steelhead <i>Oncorhynchus</i> (=Salmo) mykiss California Central Valley DPS <a href="https://ecos.fws.gov/ecp/species/1007#crithab">https://ecos.fws.gov/ecp/species/1007#crithab</a>	Final designated
Steelhead <i>Oncorhynchus</i> (=Salmo) mykiss Central California Coast DPS <a href="https://ecos.fws.gov/ecp/species/1007#crithab">https://ecos.fws.gov/ecp/species/1007#crithab</a>	Final designated
Steelhead <i>Oncorhynchus</i> (=Salmo) mykiss Northern California DPS <a href="https://ecos.fws.gov/ecp/species/1007#crithab">https://ecos.fws.gov/ecp/species/1007#crithab</a>	Final designated
Steelhead <i>Oncorhynchus</i> (=Salmo) mykiss South-Central California Coast DPS <a href="https://ecos.fws.gov/ecp/species/1007#crithab">https://ecos.fws.gov/ecp/species/1007#crithab</a>	Final designated
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> <a href="https://ecos.fws.gov/ecp/species/498#crithab">https://ecos.fws.gov/ecp/species/498#crithab</a>	Final designated
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> <a href="https://ecos.fws.gov/ecp/species/2246#crithab">https://ecos.fws.gov/ecp/species/2246#crithab</a>	Final designated

Yellow-billed Cuckoo *Coccyzus americanus*  
<https://ecos.fws.gov/ecp/species/3911#crithab>

Proposed

## 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 activity that results in the take (to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct) of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service

<sup>3</sup>. There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

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>
- Conservation measures for birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Year-round bird occurrence data <http://www.birdscanada.org/birdmon/default/datasummaries.jsp>

The migratory birds species listed below are species of particular conservation concern (e.g. [Birds of Conservation Concern](#)) that may be potentially affected by activities in this location. It is not a list of every bird species you may find in this location, nor a guarantee that all of the bird species on this list will be found on or near this location. Although it is important to try to avoid and minimize impacts to all

birds, special attention should be made to avoid and minimize impacts to birds of priority concern. To view available data on other bird species that may occur in your project area, please visit the [AKN Histogram Tools](#) and [Other Bird Data Resources](#). To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

NAME	SEASON(S)
Bald Eagle <i>Haliaeetus leucocephalus</i> <a href="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a>	Year-round
Bell's Sparrow <i>Amphispiza belli</i> <a href="https://ecos.fws.gov/ecp/species/9303">https://ecos.fws.gov/ecp/species/9303</a>	Year-round
Black Rail <i>Laterallus jamaicensis</i> <a href="https://ecos.fws.gov/ecp/species/7717">https://ecos.fws.gov/ecp/species/7717</a>	Breeding
Black Swift <i>Cypseloides niger</i> <a href="https://ecos.fws.gov/ecp/species/8878">https://ecos.fws.gov/ecp/species/8878</a>	Breeding
Black-chinned Sparrow <i>Spizella atrogularis</i> <a href="https://ecos.fws.gov/ecp/species/9447">https://ecos.fws.gov/ecp/species/9447</a>	Breeding
Brewer's Sparrow <i>Spizella breweri</i> <a href="https://ecos.fws.gov/ecp/species/9291">https://ecos.fws.gov/ecp/species/9291</a>	Breeding
Burrowing Owl <i>Athene cunicularia</i> <a href="https://ecos.fws.gov/ecp/species/9737">https://ecos.fws.gov/ecp/species/9737</a>	Year-round
California Spotted Owl <i>Strix occidentalis occidentalis</i> <a href="https://ecos.fws.gov/ecp/species/7266">https://ecos.fws.gov/ecp/species/7266</a>	Year-round
Calliope Hummingbird <i>Stellula calliope</i> <a href="https://ecos.fws.gov/ecp/species/9526">https://ecos.fws.gov/ecp/species/9526</a>	Breeding
Flammulated Owl <i>Otus flammeolus</i> <a href="https://ecos.fws.gov/ecp/species/7728">https://ecos.fws.gov/ecp/species/7728</a>	Breeding

Fox Sparrow	<i>Passerella iliaca</i>	Year-round
Green-tailed Towhee	<i>Pipilo chlorurus</i> <a href="https://ecos.fws.gov/ecp/species/9444">https://ecos.fws.gov/ecp/species/9444</a>	Breeding
Lawrence's Goldfinch	<i>Carduelis lawrencei</i> <a href="https://ecos.fws.gov/ecp/species/9464">https://ecos.fws.gov/ecp/species/9464</a>	Breeding
Least Bittern	<i>Ixobrychus exilis</i> <a href="https://ecos.fws.gov/ecp/species/6175">https://ecos.fws.gov/ecp/species/6175</a>	Breeding
Lewis's Woodpecker	<i>Melanerpes lewis</i> <a href="https://ecos.fws.gov/ecp/species/9408">https://ecos.fws.gov/ecp/species/9408</a>	Wintering
Loggerhead Shrike	<i>Lanius ludovicianus</i> <a href="https://ecos.fws.gov/ecp/species/8833">https://ecos.fws.gov/ecp/species/8833</a>	Year-round
Long-billed Curlew	<i>Numenius americanus</i> <a href="https://ecos.fws.gov/ecp/species/5511">https://ecos.fws.gov/ecp/species/5511</a>	Wintering
Mountain Plover	<i>Charadrius montanus</i> <a href="https://ecos.fws.gov/ecp/species/3638">https://ecos.fws.gov/ecp/species/3638</a>	Wintering
Nuttall's Woodpecker	<i>Picoides nuttallii</i> <a href="https://ecos.fws.gov/ecp/species/9410">https://ecos.fws.gov/ecp/species/9410</a>	Year-round
Oak Titmouse	<i>Baeolophus inornatus</i> <a href="https://ecos.fws.gov/ecp/species/9656">https://ecos.fws.gov/ecp/species/9656</a>	Year-round
Olive-sided Flycatcher	<i>Contopus cooperi</i> <a href="https://ecos.fws.gov/ecp/species/3914">https://ecos.fws.gov/ecp/species/3914</a>	Breeding
Peregrine Falcon	<i>Falco peregrinus</i> <a href="https://ecos.fws.gov/ecp/species/8831">https://ecos.fws.gov/ecp/species/8831</a>	Year-round
Purple Finch	<i>Carpodacus purpureus</i>	Year-round

Rufous Hummingbird <i>selasphorus rufus</i> <a href="https://ecos.fws.gov/ecp/species/8002">https://ecos.fws.gov/ecp/species/8002</a>	Breeding, Migrating
Rufous-crowned Sparrow <i>Aimophila ruficeps</i> <a href="https://ecos.fws.gov/ecp/species/9718">https://ecos.fws.gov/ecp/species/9718</a>	Year-round
Sage Thrasher <i>Oreoscoptes montanus</i> <a href="https://ecos.fws.gov/ecp/species/9433">https://ecos.fws.gov/ecp/species/9433</a>	Breeding
Short-eared Owl <i>Asio flammeus</i> <a href="https://ecos.fws.gov/ecp/species/9295">https://ecos.fws.gov/ecp/species/9295</a>	Year-round
Snowy Plover <i>Charadrius alexandrinus</i>	Breeding
Swainson's Hawk <i>Buteo swainsoni</i> <a href="https://ecos.fws.gov/ecp/species/1098">https://ecos.fws.gov/ecp/species/1098</a>	Breeding
Tricolored Blackbird <i>Agelaius tricolor</i> <a href="https://ecos.fws.gov/ecp/species/3910">https://ecos.fws.gov/ecp/species/3910</a>	Year-round
Western Grebe <i>aechmophorus occidentalis</i> <a href="https://ecos.fws.gov/ecp/species/6743">https://ecos.fws.gov/ecp/species/6743</a>	Year-round
White Headed Woodpecker <i>Picoides albolarvatus</i> <a href="https://ecos.fws.gov/ecp/species/9411">https://ecos.fws.gov/ecp/species/9411</a>	Year-round
Williamson's Sapsucker <i>Sphyrapicus thyroideus</i> <a href="https://ecos.fws.gov/ecp/species/8832">https://ecos.fws.gov/ecp/species/8832</a>	Year-round
Willow Flycatcher <i>Empidonax traillii</i> <a href="https://ecos.fws.gov/ecp/species/3482">https://ecos.fws.gov/ecp/species/3482</a>	Breeding
Yellow-billed Magpie <i>Pica nuttalli</i> <a href="https://ecos.fws.gov/ecp/species/9726">https://ecos.fws.gov/ecp/species/9726</a>	Year-round

What does IPaC use to generate the list of migratory bird species potentially occurring in my specified location?

**Landbirds:**

Migratory birds that are displayed on the IPaC species list are based on ranges in the latest edition of the National Geographic Guide, Birds of North America (6th Edition, 2011 by Jon L. Dunn, and Jonathan Alderfer). Although these ranges are coarse in nature, a number of U.S. Fish and Wildlife Service migratory bird biologists agree that these maps are some of the best range maps to date. These ranges were clipped to a specific Bird Conservation Region (BCR) or USFWS Region/Regions, if it was indicated in the 2008 list of Birds of Conservation Concern (BCC) that a species was a BCC species only in a particular Region/Regions. Additional modifications have been made to some ranges based on more local or refined range information and/or information provided by U.S. Fish and Wildlife Service biologists with species expertise. All migratory birds that show in areas on land in IPaC are those that appear in the 2008 Birds of Conservation Concern report.

**Atlantic Seabirds:**

Ranges in IPaC for birds off the Atlantic coast are derived from species distribution models developed by the National Oceanic and Atmospheric Association (NOAA) National Centers for Coastal Ocean Science (NCCOS) using the best available seabird survey data for the offshore Atlantic Coastal region to date. NOAA/NCCOS assisted USFWS in developing seasonal species ranges from their models for specific use in IPaC. Some of these birds are not BCC species but were of interest for inclusion because they may occur in high abundance off the coast at different times throughout the year, which potentially makes them more susceptible to certain types of development and activities taking place in that area. For more refined details about the abundance and richness of bird species within your project area off the Atlantic Coast, see the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other types of taxa that may be helpful in your project review.

About the NOAA/NCCOS models: the models were developed as part of the NOAA/NCCOS project: [Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#). The models resulting from this project are being used in a number of decision-support/mapping products in order to help guide decision-making on activities off the Atlantic Coast with the goal of reducing impacts to migratory birds. One such product is the [Northeast Ocean Data Portal](#), which can be used to explore details about the relative occurrence and abundance of bird species in a particular area off the Atlantic Coast.

All migratory bird range maps within IPaC are continuously being updated as new and better information becomes available.

**Can I get additional information about the levels of occurrence in my project area of specific birds or groups of birds listed in IPaC?****Landbirds:**

The [Avian Knowledge Network \(AKN\)](#) provides a tool currently called the "Histogram Tool", which draws from the data within the AKN (latest, survey, point count, citizen science datasets) to create a view of relative abundance of species within a particular location over the course of the year. The

results of the tool depict the frequency of detection of a species in survey events, averaged between multiple datasets within AKN in a particular week of the year. You may access the histogram tools through the [Migratory Bird Programs AKN Histogram Tools](#) webpage.

The tool is currently available for 4 regions (California, Northeast U.S., Southeast U.S. and Midwest), which encompasses the following 32 states: Alabama, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin.

In the near future, there are plans to expand this tool nationwide within the AKN, and allow the graphs produced to appear with the list of trust resources generated by IPaC, providing you with an additional level of detail about the level of occurrence of the species of particular concern potentially occurring in your project area throughout the course of the year.

#### Atlantic Seabirds:

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 NOAAANCCOS [Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project](#) webpage.

## Facilities

### Wildlife refuges

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

This location overlaps the following National Wildlife Refuges:

The area of this project is too large for IPaC to load all National Wildlife Refuges in the area. The list below may be incomplete, or the acreages reported may be inaccurate. Please contact the local U.S. Fish and Wildlife Service office or visit the [NWR map](#) for a full list.

REFUGE	ACRES
<p>Colusa National Wildlife Refuge</p> <p>☎ (530) 458-2666            📠 (530) 458-2666</p> <p>MAILING ADDRESS            C/o Sacramento Nwr Complex            752 County Road 99w            Willows, CA 95988-9639</p> <p>PHYSICAL ADDRESS            2180 Highway 20            Colusa, CA 95932</p> <p><a href="https://www.fws.gov/refuges/profiles/index.cfm?id=81621">https://www.fws.gov/refuges/profiles/index.cfm?id=81621</a></p>	<p>8,159.58 acres</p>
<p>Delevan National Wildlife Refuge</p> <p>☎ (530) 934-2801            📠 (530) 934-7814</p> <p>C/o Sacramento Nwr Complex            752 County Road 99w            Willows, CA 95988-9639</p> <p><a href="https://www.fws.gov/refuges/profiles/index.cfm?id=81622">https://www.fws.gov/refuges/profiles/index.cfm?id=81622</a></p>	<p>11,583.51 acres</p>
<p>Sacramento National Wildlife Refuge</p> <p>☎ (530) 934-2801            📠 (530) 934-7814</p> <p>752 County Road 99w            Willows, CA 95988-9639</p> <p><a href="https://www.fws.gov/refuges/profiles/index.cfm?id=81619">https://www.fws.gov/refuges/profiles/index.cfm?id=81619</a></p>	<p>21,819.75 acres</p>



Sacramento River National Wildlife Refuge

25,607.09 acres

☎ (530) 934-2801

📠 (530) 934-7814

MAILING ADDRESS

C/o Sacramento Nwr Complex  
752 County Road 99w  
Willows, CA 95988-9639

PHYSICAL ADDRESS

8369 Hugh Baber Lane  
Chico, CA 95928

<https://www.fws.gov/refuges/profiles/index.cfm?id=81627>

## 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](#).

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view 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.