

**BIOLOGICAL RESOURCES SUPPORTING DOCUMENTATION**

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*USFWS General Scoping Letter*



**DEPARTMENT OF THE AIR FORCE  
AIR FORCE CIVIL ENGINEER CENTER  
JOINT BASE SAN ANTONIO LACKLAND TEXAS**

May 7, 2024

Mr. Nicolas Post  
Air Force Civil Engineer Center NEPA Division (AFCEC/CIEE)  
2261 Hughes Ave, Suite 155  
Lackland AFB TX 78235-9853

Arizona Ecological Services Field Office  
U.S. Department of the Interior Fish and Wildlife Service  
9828 N 31st Ave., #C3  
Phoenix, AZ 85051

Dear Sir/Madam,

The United States Department of the Air Force (DAF) is preparing an Environmental Impact Statement (EIS) to analyze the potential environmental consequences that could result from the 492nd Special Operations Wing (492 SOW) Beddown at Davis-Monthan Air Force Base (DMAFB), Arizona.

The Proposed Action analyzed in this EIS addresses several programmatic basing actions associated with DMAFB, Air Force Special Operations Command (AFSOC), and Air Combat Command (ACC). The programmatic basing actions include the beddown of the 492 SOW, activation of an ACC Intelligence Squadron, and the transfer of Special Tactics and Special Operations Theater Air Operations Squadrons to DMAFB. The EIS will also analyze the retirement of A-10 aircraft from DMAFB.

The DAF will host public scoping meetings in the DMAFB local area. The dates, times, and locations of the scoping meetings are on the website listed below. The purpose of the meetings and the scoping period is to solicit comments to help effectively define the full range of environmental issues to be analyzed in the EIS. Written comments provided to the DAF during the scoping period will be considered in the preparation of the Draft EIS. Additional information can be found on the project website at [www.492sow-beddown-eis.com](http://www.492sow-beddown-eis.com).



Please provide any comments by June 14, 2024, in writing to Mr. Nicolas Post, U.S. Air Force Civil Engineer Center, AFCEC/CIEE; 13397 Lakefront Drive; Suite 100 Earth City, MO 63045 or submit them via the project website. We appreciate your participation and input on this action.

Sincerely

A handwritten signature in blue ink that reads "Nicolas Post".

Nicolas Post, GS-13, DAF  
Program Manager, NEPA Division

**USFWS IPAC Reports**

 <p><b>United States Department of the Interior</b> FISH AND WILDLIFE SERVICE Arizona Ecological Services Field Office 9828 North 31st Ave #c3 Phoenix, AZ 85051-2517 Phone: (602) 242-0210 Fax: (602) 242-2513</p> 	<p>Project code: 2024-0082225 04/25/2024 19:35:28 UTC</p>
<p>In Reply Refer To: 04/25/2024 19:35:28 UTC Project Code: 2024-0082225 Project Name: 492nd Special Operations Wing Beddown - Davis-Monthan AFB</p>	<p>or habitat segment may be affected. The effects analysis should include the entire action area, which often extends well outside the project boundary or "footprint." For example, projects that involve streams and river systems should consider downstream effects. If the Federal action agency determines that the action may jeopardize a proposed species or may adversely modify proposed critical habitat, the agency must enter into a section 7 conference. The agency may choose to confer with us on an action that may affect proposed species or critical habitat.</p>
<p>Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project</p>	<p>Candidate species are those for which there is sufficient information to support a proposal for listing. Although candidate species have no legal protection under the Act, we recommend that they be considered in the planning process in the event they become proposed or listed prior to project completion. More information on the regulations (50 CFR 402) and procedures for section 7 consultation, including the role of permit or license applicants, can be found in our Endangered Species Consultation Handbook at: <a href="https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf">https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf</a>.</p>
<p>To Whom It May Concern:</p>	<p>We also advise you to consider species protected under the Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703-712) and the Bald and Golden Eagle Protection Act (Eagle Act) (16 U.S.C. 668 et seq.). The MBTA prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when authorized by the Service. The Eagle Act prohibits anyone, without a permit, from taking (including disturbing) eagles, and their parts, nests, or eggs. Currently 1,026 species of birds are protected by the MBTA, including the western burrowing owl (<i>Athene cucularia hypugaea</i>). Protected western burrowing owls can be found in urban areas and may use their nest/burrows year-round; destruction of the burrow may result in the unpermitted take of the owl or their eggs.</p>
<p>The Fish and Wildlife Service (Service) is providing this list under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.). The list you have generated identifies threatened, endangered, proposed, and candidate species, and designated and proposed critical habitat, that may occur within the One-Range that has been delineated for the species (candidate, proposed, or listed) and its critical habitat (designated or proposed) with which your project polygon intersects. These range delineations are based on biological metrics, and do not necessarily represent exactly where the species is located. Please refer to the species information found on ECOS to determine if suitable habitat for the species on your list occurs in your project area.</p>	<p>If a bald eagle or golden eagle nest occurs in or near the proposed project area, our office should be contacted for Technical Assistance. An evaluation must be performed to determine whether the project is likely to disturb or harm eagles. The National Bald Eagle Management Guidelines provide recommendations to minimize potential project impacts to bald eagles (see <a href="https://www.fws.gov/law/bald-and-golden-eagle-protection-act">https://www.fws.gov/law/bald-and-golden-eagle-protection-act</a> and <a href="https://www.fws.gov/program/eagle-management">https://www.fws.gov/program/eagle-management</a>).</p>
<p>The purpose of the Act is to provide a means whereby threatened and endangered species and the habitats upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of Federal trust resources and to determine whether projects may affect federally listed species and/or designated critical habitat. A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.</p>	<p>The Division of Migratory Birds (505/248-7882) administers and issues permits under the MBTA and Eagle Act, while our office can provide guidance and Technical Assistance. For more information regarding the MBTA, BGEPA, and permitting processes, please visit the following web site: <a href="https://www.fws.gov/program/migratory-bird-permit">https://www.fws.gov/program/migratory-bird-permit</a>. Guidance for minimizing impacts to migratory birds for communication tower projects (e.g. cellular, digital television, radio, and emergency broadcast) can be found at <a href="https://www.fws.gov/media/recommended-best-practices-communication-tower-design-siting-construction-operation">https://www.fws.gov/media/recommended-best-practices-communication-tower-design-siting-construction-operation</a>.</p>
<p>If the Federal action agency determines that listed species or critical habitat may be affected by a federally funded, permitted or authorized activity, the agency must consult with us pursuant to 50 CFR 402. Note that a "may affect" determination includes effects that may not be adverse and that may be beneficial, insignificant, or discountable. An effect exists even if only one individual</p>	<p>The U.S. Army Corps of Engineers (Corps) may regulate activities that involve streams (including some intermittent streams) and/or wetlands. We recommend that you contact the Corps to determine their interest in proposed projects in these areas. For activities within a National Wildlife Refuge, we recommend that you contact refuge staff for specific information about refuge resources, please visit <a href="#">this link</a> or visit <a href="https://www.fws.gov/program/national-">https://www.fws.gov/program/national-</a></p>
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[wildlife-refuge-system](#) to locate the refuge you would be working in or around.

If your action is on tribal land or has implications for off-reservation tribal interests, we encourage you to contact the tribe(s) and the Bureau of Indian Affairs (BIA) to discuss potential tribal concerns, and to invite any affected tribe and the BIA to participate in the section 7 consultation. In keeping with our tribal trust responsibility, we will notify tribes that may be affected by proposed actions when section 7 consultation is initiated. For more information, please contact our Tribal Coordinator, John Nystedt, at 928/556-2160 or [John\\_Nystedt@fws.gov](mailto:John_Nystedt@fws.gov).

We also recommend you seek additional information and coordinate your project with the Arizona Game and Fish Department. Information on known species detections, special status species, and Arizona species of greatest conservation need, such as the western burrowing owl and the Sonoran desert tortoise (*Gopherus morafkai*) can be found by using their Online Environmental Review Tool, administered through the Heritage Data Management System and Project Evaluation Program (<https://www.azgfd.com/wildlife-conservation/planning-for-wildlife/project-evaluation-program/>).

We appreciate your concern for threatened and endangered species. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office. If we may be of further assistance, please contact our Flagstaff office at 928/556-2118 for projects in northern Arizona, our general Phoenix number 602/242-0210 for central Arizona, or 520/670-6144 for projects in southern Arizona.

Sincerely,  
*/s/*

Heather Whitlaw  
Field Supervisor  
Attachment

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

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## OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Arizona Ecological Services Field Office**  
9828 North 31st Ave  
#c3  
Phoenix, AZ 85051-2517  
(602) 242-0210

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### PROJECT SUMMARY

Project Code: 2024-0082225

Project Name: 492nd Special Operations Wing Beddown - Davis-Monthan AFB

Project Type: Military Operations

Project Description: The United States (U.S.) Department of the Air Force (DAF) is proposing to transform the 492nd Special Operations Wing (492 SOW) into the Air Force Special Operations Command (AFSOC) third Power Projection Wing (PPW) at Davis-Monthan Air Force Base (AFB), Arizona. AFSOC's third PPW would include the 492 SOW, the 6th and 319th Special Operations Squadrons, an MC-130J squadron, activation of an Intelligence Squadron (IS) as a geographically separated unit under the Air Combat Command (ACC) 361st Intelligence, Surveillance, and Reconnaissance Group (361 ISRG), and Special Tactics and Special Operations Theater Air Operations Squadrons. Throughout this document, all these units are included in the phrase "492 SOW Beddown." The 492 SOW Beddown would include both OA-1K and MC-130J aircraft.

In 2021, as the DAF announced its plans to replace the Air Expeditionary Force deployment model with the Air Force Force Generation model, AFSOC moved to build a force structure that can sustainably and predictably generate combat forces. Squadrons would cycle through four phases that would cover a 24 month period: Individual, Unit, Joint, and Collective phases. These four phases provide a sustainable force of Airmen and airpower.

The 2022 National Defense Strategy (NDS) resulted in DAF/AFSOC focusing on the need for an additional PPW in the western United States. As part of the strategic basing process, AFSOC conducted an enterprise-wide assessment of DAF installations to identify candidate locations for a PPW. With the adoption of the fiscal year (FY) 2023 Presidential Budget and passing of the FY 2024 National Defense Authorization Act, the decision to retire A-10 aircraft was announced. With the planned A-10 retirement, AFSOC's focus turned to western Continental United States A-10 locations that had available facilities and ramp space, proximity to air-to-ground ranges, airspace availability, and synergies with existing rescue and fighter missions. On August 2, 2023, the DAF announced Davis-Monthan AFB, Arizona as the preferred location to host AFSOC's third PPW.

Retirement of A-10s is planned to occur in multiple phases at Davis-Monthan AFB. Phase 1 includes the retirement of all A-10 aircraft associated with the 354th Fighter Squadron (FS) and a portion of the A-10s associated with the 357 FS. These actions are analyzed in the

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Environmental Assessment (EA) for the Fourth Generation Missions Regional Realignment ("Realignment EA") (DAF, 2024). A Finding of No Significant Impact for the Realignment EA was signed on 2024. Results of the planned Phase 2 retirement, which includes retirement of the remaining A-10s are reflected in this EIS. The Phase 2 retirement of A-10s has been announced as part of the FY 2025 Presidential Budget.

The 492 SOW Beddown at Davis-Monthan AFB is planned to occur throughout the next 6 years. Retirement of the 47 FS Formal Training Unit and associated A-10 aircraft from Davis-Monthan AFB is dependent upon the eventual retirement of A-10 aircraft across the United States. For the purposes of the analysis in this EIS, it is assumed that this retirement would occur by the end of FY 2026. However, the past announced potential retirements of the A-10 have seen many delays and postponements due to world events and resulting military needs, therefore, as a practical matter, this date and other dates for the overall A-10 retirement are subject to change.

#### Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@32.15664045,-110.88956401094639,14z>



Counties: Pima County, Arizona

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### ENDANGERED SPECIES ACT SPECIES

There is a total of 11 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [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.

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### MAMMALS

NAME	STATUS
Ocelot <i>Leopardus (=Felis) pardalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4474">https://ecos.fws.gov/ecp/species/4474</a>	Endangered

### BIRDS

NAME	STATUS
Cactus Ferruginous Pygmy-owl <i>Glaucoedidium brasilianum cactorum</i> There is final critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1225">https://ecos.fws.gov/ecp/species/1225</a>	Threatened
California Least Tern <i>Sternula antillarum browni</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3104">https://ecos.fws.gov/ecp/species/3104</a>	Endangered
Yellow-billed Cuckoo <i>Coccyzus americanus</i> Population: Western U.S. DPS There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/2811">https://ecos.fws.gov/ecp/species/2811</a>	Threatened

### REPTILES

NAME	STATUS
Sonoyta Mud Turtle <i>Kinosternon sonoriense longifemorale</i> There is final critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7226">https://ecos.fws.gov/ecp/species/7226</a>	Endangered

### FISHES

NAME	STATUS
Gila Chub <i>Gila intermedia</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/51">https://ecos.fws.gov/ecp/species/51</a>	Endangered
Gila Topminnow (incl. Yaqui) <i>Poeciliopsis occidentalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1116">https://ecos.fws.gov/ecp/species/1116</a>	Endangered

### INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5743">https://ecos.fws.gov/ecp/species/5743</a>	Candidate

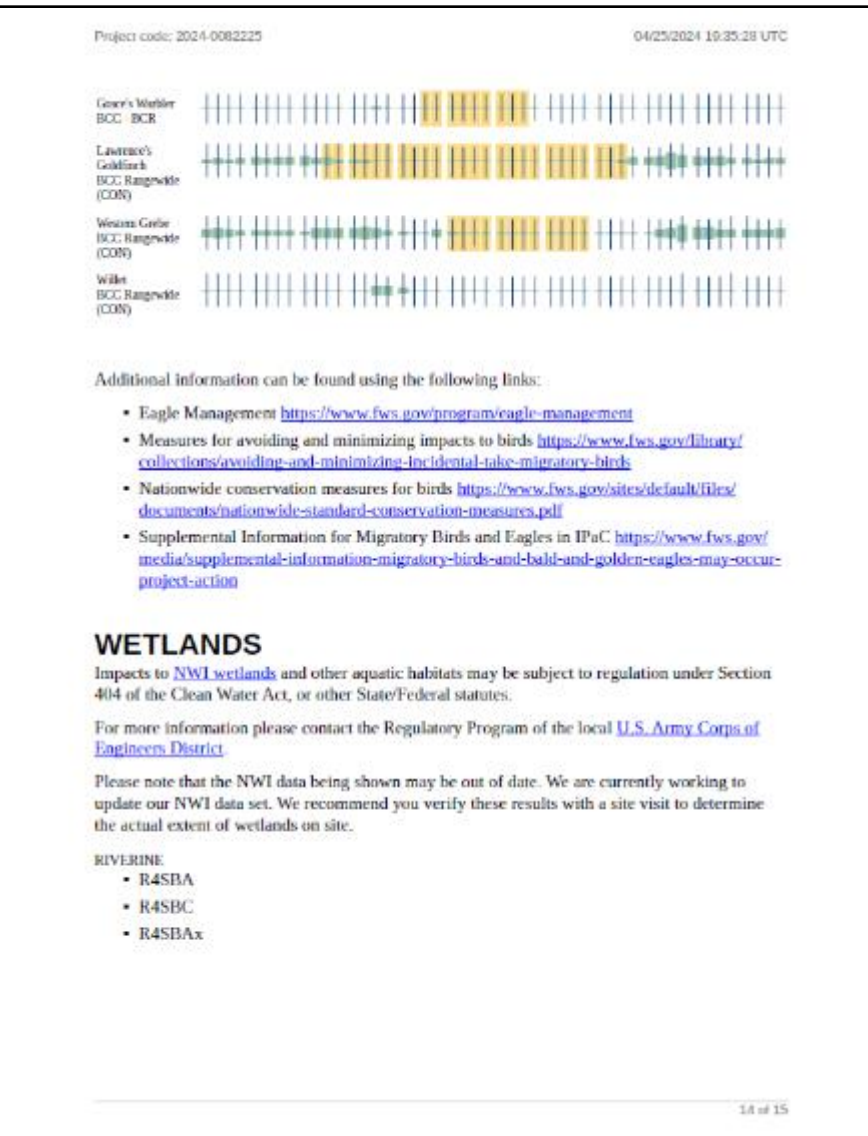
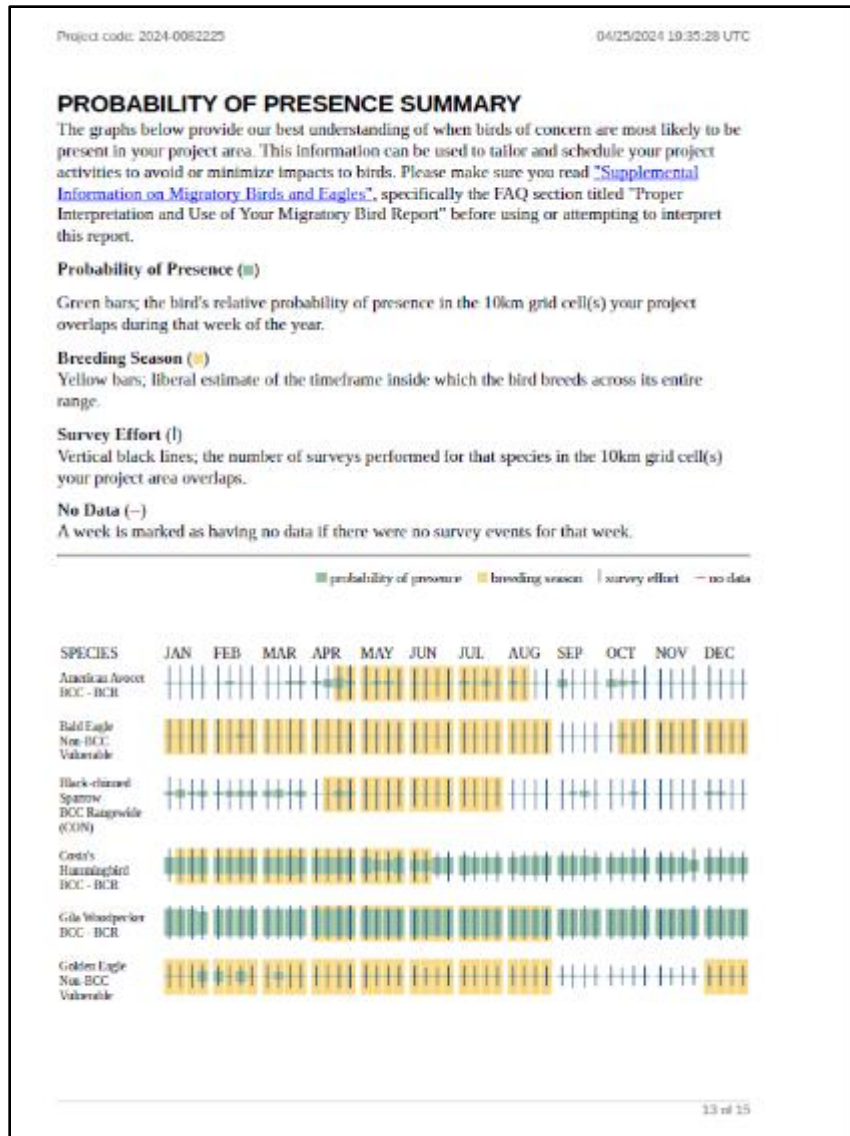
### FLOWERING PLANTS

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<table border="1"> <thead> <tr> <th>NAME</th> <th>STATUS</th> </tr> </thead> <tbody> <tr> <td>Arizona Eryngo <i>Eryngium sparganophyllum</i> Population: There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/10705">https://ecos.fws.gov/ecp/species/10705</a></td> <td>Endangered</td> </tr> <tr> <td>Huachuca Water-umbel <i>Lilaeopsis schaffneriana</i> var. <i>recurva</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1201">https://ecos.fws.gov/ecp/species/1201</a></td> <td>Endangered</td> </tr> <tr> <td>Pima Pineapple Cactus <i>Coryphantha scheeri</i> var. <i>robustispina</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4019">https://ecos.fws.gov/ecp/species/4019</a></td> <td>Endangered</td> </tr> </tbody> </table>	NAME	STATUS	Arizona Eryngo <i>Eryngium sparganophyllum</i> Population: There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/10705">https://ecos.fws.gov/ecp/species/10705</a>	Endangered	Huachuca Water-umbel <i>Lilaeopsis schaffneriana</i> var. <i>recurva</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1201">https://ecos.fws.gov/ecp/species/1201</a>	Endangered	Pima Pineapple Cactus <i>Coryphantha scheeri</i> var. <i>robustispina</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4019">https://ecos.fws.gov/ecp/species/4019</a>	Endangered		<p>There are likely bald eagles present in your project area. For additional information on bald eagles, refer to <a href="#">Bald Eagle Nesting and Sensitivity to Human Activity</a></p> <p>For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.</p>	
NAME	STATUS										
Arizona Eryngo <i>Eryngium sparganophyllum</i> Population: There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/10705">https://ecos.fws.gov/ecp/species/10705</a>	Endangered										
Huachuca Water-umbel <i>Lilaeopsis schaffneriana</i> var. <i>recurva</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1201">https://ecos.fws.gov/ecp/species/1201</a>	Endangered										
Pima Pineapple Cactus <i>Coryphantha scheeri</i> var. <i>robustispina</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4019">https://ecos.fws.gov/ecp/species/4019</a>	Endangered										
<p><b>CRITICAL HABITATS</b>          THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.</p> <p>YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.</p>		<table border="1"> <thead> <tr> <th>NAME</th> <th>BREEDING SEASON</th> </tr> </thead> <tbody> <tr> <td>Bald Eagle <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></td> <td>Breeds Oct 15 to Aug 31</td> </tr> <tr> <td>Golden Eagle <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/1600">https://ecos.fws.gov/ecp/species/1600</a></td> <td>Breeds Dec 1 to Aug 31</td> </tr> </tbody> </table>	NAME	BREEDING SEASON	Bald Eagle <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>	Breeds Oct 15 to Aug 31	Golden Eagle <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/1600">https://ecos.fws.gov/ecp/species/1600</a>	Breeds Dec 1 to Aug 31			
NAME	BREEDING SEASON										
Bald Eagle <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>	Breeds Oct 15 to Aug 31										
Golden Eagle <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/1600">https://ecos.fws.gov/ecp/species/1600</a>	Breeds Dec 1 to Aug 31										
<p><b>USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES</b></p> <p>Any activity proposed on lands managed by the <a href="#">National Wildlife Refuge</a> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.</p> <p>THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.</p>		<p><b>PROBABILITY OF PRESENCE SUMMARY</b></p> <p>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 <a href="#">"Supplemental Information on Migratory Birds and Eagles"</a>, specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.</p>									
<p><b>BALD &amp; GOLDEN EAGLES</b></p> <p>Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.</p> <p>Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the <a href="#">"Supplemental Information on Migratory Birds and Eagles"</a>.</p> <ol style="list-style-type: none"> <li>1. <a href="#">The Bald and Golden Eagle Protection Act</a> of 1940.</li> <li>2. <a href="#">The Migratory Birds Treaty Act</a> of 1918.</li> <li>3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)</li> </ol>		<p><b>Probability of Presence (■)</b></p> <p>Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.</p> <p><b>Breeding Season (■)</b></p> <p>Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.</p> <p><b>Survey Effort ( )</b></p> <p>Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.</p> <p><b>No Data (—)</b></p> <p>A week is marked as having no data if there were no survey events for that week.</p>									
9 of 15		<p>■ probability of presence ■ breeding season   survey effort — no data</p>	10 of 15								



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<p>Additional information can be found using the following links:</p> <ul style="list-style-type: none"> <li>Eagle Management <a href="https://www.fws.gov/program/eagle-management">https://www.fws.gov/program/eagle-management</a></li> <li>Measures for avoiding and minimizing impacts to birds <a href="https://scow.fws.gov/library/collections/avoiding-and-minimizing-incidentals-take-migratory-birds">https://scow.fws.gov/library/collections/avoiding-and-minimizing-incidentals-take-migratory-birds</a></li> <li>Nationwide conservation measures for birds <a href="https://scow.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf">https://scow.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf</a></li> <li>Supplemental Information for Migratory Birds and Eagles in IPaC <a href="https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action">https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</a></li> </ul>																																																															
<h3>MIGRATORY BIRDS</h3> <p>Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.</p> <p>Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".</p> <hr/> <ol style="list-style-type: none"> <li>The <a href="#">Migratory Birds Treaty Act</a> of 1918.</li> <li>The <a href="#">Bald and Golden Eagle Protection Act</a> of 1940.</li> <li>50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)</li> </ol>																																																															
<p>For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.</p>																																																															
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### **IPAC USER CONTACT INFORMATION**

Agency: Private Entity  
Name: amanda anderson  
Address: 8081 Innovation Park Drive  
City: Baton Rouge  
State: LA  
Zip: 70506  
Email: aanderson@gsrscorp.com  
Phone: 2257578088

### **LEAD AGENCY CONTACT INFORMATION**

Lead Agency: Air Force



United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Arizona Ecological Services Field Office  
9828 North 31st Ave  
#c3  
Phoenix, AZ 85051-2517  
Phone: (602) 242-0210 Fax: (602) 242-2513

In Reply Refer To: 08/13/2024 15:36:41 UTC  
Project Code: 2024-0129675  
Project Name: NATURAL RESOURCES SUPPORT ON THE AFSOC BASING AND  
BEDDOWN ENVIRONMENTAL IMPACT STATEMENT AT DM AFB

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The Fish and Wildlife Service (Service) is providing this list under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). The list you have generated identifies threatened, endangered, proposed, and candidate species, and designated and proposed critical habitat, that may occur within the One-Range that has been delineated for the species (candidate, proposed, or listed) and its critical habitat (designated or proposed) with which your project polygon intersects. These range delineations are based on biological metrics, and do not necessarily represent exactly where the species is located. Please refer to the species information found on ECOS to determine if suitable habitat for the species on your list occurs in your project area.

The purpose of the Act is to provide a means whereby threatened and endangered species and the habitats upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of Federal trust resources and to determine whether projects may affect federally listed species and/or designated critical habitat. A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12. If the Federal action agency determines that listed species or critical habitat may be affected by a federally funded, permitted or authorized activity, the agency must consult with us pursuant to 50 CFR 402. Note that a "may affect" determination includes effects that may not be adverse and

that may be beneficial, insignificant, or discountable. An effect exists even if only one individual or habitat segment may be affected. The effects analysis should include the entire action area, which often extends well outside the project boundary or "footprint." For example, projects that involve streams and river systems should consider downstream affects. If the Federal action agency determines that the action may jeopardize a proposed species or may adversely modify proposed critical habitat, the agency must enter into a section 7 conference. The agency may choose to confer with us on an action that may affect proposed species or critical habitat.

Candidate species are those for which there is sufficient information to support a proposal for listing. Although candidate species have no legal protection under the Act, we recommend that they be considered in the planning process in the event they become proposed or listed prior to project completion. More information on the regulations (50 CFR 402) and procedures for section 7 consultation, including the role of permit or license applicants, can be found in our Endangered Species Consultation Handbook at: <https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>.

We also advise you to consider species protected under the Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703-712) and the Bald and Golden Eagle Protection Act (Eagle Act) (16 U.S.C. 668 *et seq.*). The MBTA prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when authorized by the Service. The Eagle Act prohibits anyone, without a permit, from taking (including disturbing) eagles, and their parts, nests, or eggs. Currently 1,026 species of birds are protected by the MBTA, including the western burrowing owl (*Athene cucularia hypugaea*). Protected western burrowing owls can be found in urban areas and may use their nest/burrows year-round; destruction of the burrow may result in the unpermitted take of the owl or their eggs.

If a bald eagle or golden eagle nest occurs in or near the proposed project area, our office should be contacted for Technical Assistance. An evaluation must be performed to determine whether the project is likely to disturb or harm eagles. The National Bald Eagle Management Guidelines provide recommendations to minimize potential project impacts to bald eagles (see <https://www.fws.gov/law/bald-and-golden-eagle-protection-act> and <https://www.fws.gov/program/eagle-management>).

The Division of Migratory Birds (505/248-7882) administers and issues permits under the MBTA and Eagle Act, while our office can provide guidance and Technical Assistance. For more information regarding the MBTA, BGEPA, and permitting processes, please visit the following web site: <https://www.fws.gov/program/migratory-bird-permit>. Guidance for minimizing impacts to migratory birds for communication tower projects (e.g. cellular, digital television, radio, and emergency broadcast) can be found at <https://www.fws.gov/media/recommended-best-practices-communication-tower-design-siting-construction-operation>.

The U.S. Army Corps of Engineers (Corps) may regulate activities that involve streams (including some intermittent streams) and/or wetlands. We recommend that you contact the Corps to determine their interest in proposed projects in these areas. For activities within a National Wildlife Refuge, we recommend that you contact refuge staff for specific information

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about refuge resources, please visit [this link](#) or visit <https://www.fws.gov/program/national-wildlife-refuge-system> to locate the refuge you would be working in or around.

If your action is on tribal land or has implications for off-reservation tribal interests, we encourage you to contact the tribe(s) and the Bureau of Indian Affairs (BIA) to discuss potential tribal concerns, and to invite any affected tribe and the BIA to participate in the section 7 consultation. In keeping with our tribal trust responsibility, we will notify tribes that may be affected by proposed actions when section 7 consultation is initiated. For more information, please contact our Tribal Coordinator, John Nystedt, at 928/556-2160 or [John.Nystedt@fws.gov](mailto:John.Nystedt@fws.gov).

We also recommend you seek additional information and coordinate your project with the Arizona Game and Fish Department. Information on known species detections, special status species, and Arizona species of greatest conservation need, such as the western burrowing owl and the Sonoran desert tortoise (*Gopherus morafkai*) can be found by using their Online Environmental Review Tool, administered through the Heritage Data Management System and Project Evaluation Program (<https://www.azgfd.com/wildlife-conservation/planning-for-wildlife/project-evaluation-program/>).

We appreciate your concern for threatened and endangered species. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office. If we may be of further assistance, please contact our Flagstaff office at 928/556-2118 for projects in northern Arizona, our general Phoenix number 602/242-0210 for central Arizona, or 520/670-6144 for projects in southern Arizona.

Sincerely,  
/s/

Heather Whitlaw  
Field Supervisor  
Attachment

**Note:** IPaC has provided all available attachments because this project is in multiple field office jurisdictions.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

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## OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

### Arizona Ecological Services Field Office

9828 North 31st Ave  
#c3  
Phoenix, AZ 85051-2517  
(602) 242-0210

This project's location is within the jurisdiction of multiple offices. However, only one species list document will be provided for all offices. The species and critical habitats in this document reflect the aggregation of those that fall in each of the affiliated office's jurisdiction. Other offices affiliated with the project:

### New Mexico Ecological Services Field Office

2105 Osuna Road Ne  
Albuquerque, NM 87113-1001  
(505) 346-2525

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## PROJECT SUMMARY

Project Code: 2024-0129675

Project Name: NATURAL RESOURCES SUPPORT ON THE AFSOC BASING AND BEDDOWN ENVIRONMENTAL IMPACT STATEMENT AT DM AFB

Project Type: Airport - New Construction

Project Description: The Air Force Special Operations Command (AFSOC) is conducting a basing action at Davis-Monthan AFB in Arizona. As part of the basing action, an Environmental Impact Statement (EIS) will be prepared.

The EIS shall provide sufficient, documented information to analyze potential environmental impacts associated with several ongoing strategic basing actions. The first of these is the proposed divestment of 84x A-10C aircraft from Davis-Monthan AFB and the transfer of AFSOCs 492nd Special Operations Wing and subsequent missions. The A-10C aircraft currently assigned to Davis-Monthan AFB would be divested in two phases. The 354th FS would be inactivated and the 357th FS and 47th FS would be reduced in FY24, divesting 36 A-10C aircraft by the end of FY24. In FY26 the 357th FS and 47th FS would be inactivated, and the remaining 46 aircraft would be divested. There would be a reduction of approximately 2,274 manpower authorizations associated with the divestiture of the A-10s at Davis-Monthan.

AFSOC previously conducted a site visit to scope facilities. The AFSOC/A4IC and Det 3, IMSC team confirmed the condition and capacity for senior leadership decision space. AF/ABX provided guidance to focus on A-10C facilities only. The team compared the A-10C facilities with the AFSOC force structure to estimate beddown costing and requirements. Military Construction (MILCON) would potentially be programmed starting in FY28 and Facilities, Sustainment, Restoration, & Modification (FSRM) starting in FY26.

The following is a list of proposed/potential MILCON based on the site visit:

- 2-Bay MC-130J Hangar / AMU
- STS Aquatic Trainer Facility
- STS HPTC Facility
- STS Dual Sq Ops Complex
- Installation Comm Center

The following is a list of proposed FSRM based on the site visit:

- Back Shop Upgrades & Refresh
- Renovate CDCs for Tenant Wing HQ Campus
- Renovate 4413 & 1446 for MC-130J and OA-1K Simulators
- Refresh 5251 & 5247 for Armed Overwatch

- Refresh 4800/5600 for two MC-130J Squadron Operations
- ADAL Fac for SERE/AFE/Oss
- Refresh 5255 for MC-130J Corrosion Control
- Convert 4400 to SCIF (T-AOS)
- Restripe Ramp & Demo Sun Shades
- STS Climbing Tower
- Interim Swing Space

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@32.1765216,-112.56542667748568,14z>



Counties: Arizona and New Mexico

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### ENDANGERED SPECIES ACT SPECIES

There is a total of 51 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [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.

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### MAMMALS

NAME	STATUS
Jaguar <i>Panthera onca</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3944">https://ecos.fws.gov/ecp/species/3944</a>	Endangered
Mexican Long-nosed Bat <i>Leptonycteris nivalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8203">https://ecos.fws.gov/ecp/species/8203</a>	Endangered
Mexican Wolf <i>Canis lupus baileyi</i> Population: U.S.A. (portions of AZ and NM)see 17.84(k) No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3916">https://ecos.fws.gov/ecp/species/3916</a>	Experimental Population, Non- Essential
Mount Graham Red Squirrel <i>Tamiasciurus fremonti grahamensis</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8370">https://ecos.fws.gov/ecp/species/8370</a>	Endangered
New Mexico Meadow Jumping Mouse <i>Zapus hudsonius luteus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/7965">https://ecos.fws.gov/ecp/species/7965</a>	Endangered
Ocelot <i>Leopardus (=Felis) pardalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4474">https://ecos.fws.gov/ecp/species/4474</a>	Endangered
Sonoran Pronghorn <i>Antilocapra americana sonoriensis</i> Population: Wherever found, except where listed as an experimental population No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4750">https://ecos.fws.gov/ecp/species/4750</a>	Endangered
Sonoran Pronghorn <i>Antilocapra americana sonoriensis</i> Population: U.S.A. (AZ), Mexico No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4750">https://ecos.fws.gov/ecp/species/4750</a>	Experimental Population, Non- Essential
<b>BIRDS</b>	
<b>NAME</b>	<b>STATUS</b>
Cactus Ferruginous Pygmy-owl <i>Glaucidium brasilianum cactorum</i> There is final critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1225">https://ecos.fws.gov/ecp/species/1225</a>	Threatened
California Least Tern <i>Sternula antillarum browni</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8104">https://ecos.fws.gov/ecp/species/8104</a>	Endangered
Masked Bobwhite (quail) <i>Colinus virginianus ridgwayi</i> No critical habitat has been designated for this species.	Endangered

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NAME		STATUS		NAME		STATUS	
Species profile: <a href="https://ecos.fws.gov/ecp/species/3484">https://ecos.fws.gov/ecp/species/3484</a>				No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/2096">https://ecos.fws.gov/ecp/species/2096</a>			
Mexican Spotted Owl <i>Strix occidentalis lucida</i>		Threatened		<b>FISHES</b>			
There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8196">https://ecos.fws.gov/ecp/species/8196</a>				NAME		STATUS	
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i>		Experimental Population, Non-Essential		Apache Trout <i>Oncorhynchus apache</i>		Threatened	
Population: U.S.A (AZ, NM) No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1923">https://ecos.fws.gov/ecp/species/1923</a>				No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3532">https://ecos.fws.gov/ecp/species/3532</a>			
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i>		Endangered		Beautiful Shiner <i>Cyprinella formosa</i>		Threatened	
There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/6749">https://ecos.fws.gov/ecp/species/6749</a>				There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/7874">https://ecos.fws.gov/ecp/species/7874</a>			
Yellow-billed Cuckoo <i>Coccyzus americanus</i>		Threatened		Desert Pupfish <i>Cyprinodon macularius</i>		Endangered	
Population: Western U.S. DPS There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3911">https://ecos.fws.gov/ecp/species/3911</a>				There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/7003">https://ecos.fws.gov/ecp/species/7003</a>			
Yuma Ridgway's Rail <i>Rallus obsoletus yumanensis</i>		Endangered		Gila Chub <i>Gila intermedia</i>		Endangered	
No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3505">https://ecos.fws.gov/ecp/species/3505</a>				There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/51">https://ecos.fws.gov/ecp/species/51</a>			
<b>REPTILES</b>				Gila Topminnow (incl. Yaqui) <i>Poeciliopsis occidentalis</i>		Endangered	
NAME		STATUS		No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1116">https://ecos.fws.gov/ecp/species/1116</a>			
Narrow-headed Gartersnake <i>Thamnophis rufipunctatus</i>		Threatened		Gila Trout <i>Oncorhynchus gilae</i>		Threatened	
There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/2204">https://ecos.fws.gov/ecp/species/2204</a>				No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/781">https://ecos.fws.gov/ecp/species/781</a>			
New Mexican Ridge-nosed Rattlesnake <i>Crotalus willardi obscurus</i>		Threatened		Loach Minnow <i>Tiaroga cobitis</i>		Endangered	
There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3657">https://ecos.fws.gov/ecp/species/3657</a>				There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/6922">https://ecos.fws.gov/ecp/species/6922</a>			
Northern Mexican Gartersnake <i>Thamnophis eques megalops</i>		Threatened		Razorback Sucker <i>Xyrauchen texanus</i>		Endangered	
There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/7655">https://ecos.fws.gov/ecp/species/7655</a>				There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/530">https://ecos.fws.gov/ecp/species/530</a>			
Sonoyta Mud Turtle <i>Kinosternon sonoriense longifemorale</i>		Endangered		Sonora Chub <i>Gila ditaenia</i>		Threatened	
There is final critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7276">https://ecos.fws.gov/ecp/species/7276</a>				There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1394">https://ecos.fws.gov/ecp/species/1394</a>			
<b>AMPHIBIANS</b>				Spikedace <i>Meda fulgida</i>		Endangered	
NAME		STATUS		There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/6493">https://ecos.fws.gov/ecp/species/6493</a>			
Chiricahua Leopard Frog <i>Rana chiricahuensis</i>		Threatened		Woundfin <i>Plagopterus argentissimus</i>		Experimental Population, Non-Essential	
There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1516">https://ecos.fws.gov/ecp/species/1516</a>				Population: Gila R. drainage, AZ, NM No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/49">https://ecos.fws.gov/ecp/species/49</a>			
Sonoran Tiger Salamander <i>Ambystoma mavortium stebbinsi</i>		Endangered		Yaqui Catfish <i>Ictalurus pricei</i>		Threatened	



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NAME	STATUS
There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5432">https://ecos.fws.gov/ecp/species/5432</a>	
Yaqui Chub <i>Gila purpurea</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3414">https://ecos.fws.gov/ecp/species/3414</a>	Endangered
<b>SNAILS</b>	
NAME	STATUS
San Bernardino Springsnail <i>Pyrgulopsis bernardina</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1778">https://ecos.fws.gov/ecp/species/1778</a>	Threatened
<b>INSECTS</b>	
NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate
<b>FLOWERING PLANTS</b>	
NAME	STATUS
Acuña Cactus <i>Echinomastus erectocentrus</i> var. <i>acunensis</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5785">https://ecos.fws.gov/ecp/species/5785</a>	Endangered
Arizona Cliffrose <i>Purshia</i> (= <i>Cowania</i> ) <i>subintegra</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/866">https://ecos.fws.gov/ecp/species/866</a>	Endangered
Arizona Eryngo <i>Eryngium sparganophyllum</i> Population: There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/10705">https://ecos.fws.gov/ecp/species/10705</a>	Endangered
Arizona Hedgehog Cactus <i>Echinocereus arizonicus</i> ssp. <i>arizonicus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1702">https://ecos.fws.gov/ecp/species/1702</a>	Endangered
Bartram's Stonecrop <i>Graptopetalum bartramii</i> There is <b>proposed</b> critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8382">https://ecos.fws.gov/ecp/species/8382</a>	Threatened
Beardless Chinchweed <i>Pectis imberbis</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1348">https://ecos.fws.gov/ecp/species/1348</a>	Endangered
Canelo Hills Ladies'-tresses <i>Spiranthes delitescens</i>	Endangered

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NAME	STATUS
No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8098">https://ecos.fws.gov/ecp/species/8098</a>	
Cochise Pincushion Cactus <i>Coryphantha robbinsorum</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7229">https://ecos.fws.gov/ecp/species/7229</a>	Threatened
Huachuca Water-umbel <i>Lilaeopsis schaffneriana</i> var. <i>recurva</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1201">https://ecos.fws.gov/ecp/species/1201</a>	Endangered
Kearney's Blue-star <i>Amsonia kearneyana</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7485">https://ecos.fws.gov/ecp/species/7485</a>	Endangered
Nichol's Turk's Head Cactus <i>Echinocactus horizontalionius</i> var. <i>nicholii</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5343">https://ecos.fws.gov/ecp/species/5343</a>	Endangered
Pima Pineapple Cactus <i>Coryphantha scheeri</i> var. <i>robustispina</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4919">https://ecos.fws.gov/ecp/species/4919</a>	Endangered
Swale Paintbrush <i>Castilleja ornata</i> Population: No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/10121">https://ecos.fws.gov/ecp/species/10121</a>	Proposed Endangered
Wright's Marsh Thistle <i>Cirsium wrightii</i> Population: There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8963">https://ecos.fws.gov/ecp/species/8963</a>	Threatened
<b>CRITICAL HABITATS</b>	
There are 23 critical habitats wholly or partially within your project area under this office's jurisdiction.	
NAME	STATUS
Acuña Cactus <i>Echinomastus erectocentrus</i> var. <i>acunensis</i> <a href="https://ecos.fws.gov/ecp/species/5785#crithab">https://ecos.fws.gov/ecp/species/5785#crithab</a>	Final
Arizona Eryngo <i>Eryngium sparganophyllum</i> <a href="https://ecos.fws.gov/ecp/species/10705#crithab">https://ecos.fws.gov/ecp/species/10705#crithab</a>	Final
Beardless Chinchweed <i>Pectis imberbis</i> <a href="https://ecos.fws.gov/ecp/species/1348#crithab">https://ecos.fws.gov/ecp/species/1348#crithab</a>	Final
Beautiful Shiner <i>Cyprinella formosa</i> <a href="https://ecos.fws.gov/ecp/species/7874#crithab">https://ecos.fws.gov/ecp/species/7874#crithab</a>	Final
Chiricahua Leopard Frog <i>Rana chiricahuensis</i>	Final

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NAME		STATUS		NAME		STATUS	
<a href="https://ecos.fws.gov/ecp/species/1516#crithab">https://ecos.fws.gov/ecp/species/1516#crithab</a>				Yellow-billed Cuckoo <i>Coccyzus americanus</i>		Final	
Desert Pupfish <i>Cyprinodon macularius</i>		Final		<a href="https://ecos.fws.gov/ecp/species/3911#crithab">https://ecos.fws.gov/ecp/species/3911#crithab</a>			
<a href="https://ecos.fws.gov/ecp/species/7003#crithab">https://ecos.fws.gov/ecp/species/7003#crithab</a>							
Gila Chub <i>Gila intermedia</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/51#crithab">https://ecos.fws.gov/ecp/species/51#crithab</a>							
Huachuca Water-umbel <i>Lilaeopsis schaffneriana</i> var. <i>recurva</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/1201#crithab">https://ecos.fws.gov/ecp/species/1201#crithab</a>							
Jaguar <i>Panthera onca</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/3944#crithab">https://ecos.fws.gov/ecp/species/3944#crithab</a>							
Loach Minnow <i>Tiaroga cobitis</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/6922#crithab">https://ecos.fws.gov/ecp/species/6922#crithab</a>							
Mexican Spotted Owl <i>Strix occidentalis lucida</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/8196#crithab">https://ecos.fws.gov/ecp/species/8196#crithab</a>							
Mount Graham Red Squirrel <i>Tamiasciurus fremonti grahamensis</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/8370#crithab">https://ecos.fws.gov/ecp/species/8370#crithab</a>							
New Mexican Ridge-nosed Rattlesnake <i>Crotalus willardi obscurus</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/3657#crithab">https://ecos.fws.gov/ecp/species/3657#crithab</a>							
Northern Mexican Gartersnake <i>Thamnophis eques megalops</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/7655#crithab">https://ecos.fws.gov/ecp/species/7655#crithab</a>							
Quitobaquito Tryonia <i>Tryonia quitobaquiae</i>		Proposed					
For information on why this critical habitat appears for your project, even though Quitobaquito Tryonia 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/4521#crithab">https://ecos.fws.gov/ecp/species/4521#crithab</a>							
Razorback Sucker <i>Xyrauchen texanus</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/530#crithab">https://ecos.fws.gov/ecp/species/530#crithab</a>							
San Bernardino Springsnail <i>Pyrgulopsis bernardina</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/1778#crithab">https://ecos.fws.gov/ecp/species/1778#crithab</a>							
Sonora Chub <i>Gila ditaenia</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/1394#crithab">https://ecos.fws.gov/ecp/species/1394#crithab</a>							
Southwestern Willow Flycatcher <i>Empidonax traillii eximius</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/6749#crithab">https://ecos.fws.gov/ecp/species/6749#crithab</a>							
Spikedace <i>Meda fulgida</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/6493#crithab">https://ecos.fws.gov/ecp/species/6493#crithab</a>							
Yaqui Catfish <i>Ictalurus pricei</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/5432#crithab">https://ecos.fws.gov/ecp/species/5432#crithab</a>							
Yaqui Chub <i>Gila purpurea</i>		Final					
<a href="https://ecos.fws.gov/ecp/species/3414#crithab">https://ecos.fws.gov/ecp/species/3414#crithab</a>							

## USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

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

The following FWS National Wildlife Refuge Lands and Fish Hatcheries lie fully or partially within your project area:

FACILITY NAME	ACRES
BUENOS AIRES NATIONAL WILDLIFE REFUGE <a href="https://www.fws.gov/our-facilities?keywords=%5C%22BUENOS+AIRES+NATIONAL+WILDLIFE+REFUGE%5C%22">https://www.fws.gov/our-facilities?keywords=%5C%22BUENOS+AIRES+NATIONAL+WILDLIFE+REFUGE%5C%22</a>	945,954.474
BUENOS AIRES NATIONAL WILDLIFE REFUGE <a href="https://www.fws.gov/our-facilities?keywords=%5C%22BUENOS+AIRES+NATIONAL+WILDLIFE+REFUGE%5C%22">https://www.fws.gov/our-facilities?keywords=%5C%22BUENOS+AIRES+NATIONAL+WILDLIFE+REFUGE%5C%22</a>	27,281.45
CABEZA PRIETA NATIONAL WILDLIFE REFUGE <a href="https://www.fws.gov/our-facilities?keywords=%5C%22CABEZA+PRIETA+NATIONAL+WILDLIFE+REFUGE%5C%22">https://www.fws.gov/our-facilities?keywords=%5C%22CABEZA+PRIETA+NATIONAL+WILDLIFE+REFUGE%5C%22</a>	51.88
SAN BERNARDINO NATIONAL WILDLIFE REFUGE <a href="https://www.fws.gov/our-facilities?keywords=%5C%22SAN+BERNARDINO+NATIONAL+WILDLIFE+REFUGE%5C%22">https://www.fws.gov/our-facilities?keywords=%5C%22SAN+BERNARDINO+NATIONAL+WILDLIFE+REFUGE%5C%22</a>	25,644.504

## BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

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

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There are likely bald eagles present in your project area. For additional information on bald eagles, refer to [Bald Eagle Nesting and Sensitivity to Human Activity](#)

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

NAME	BREEDING SEASON
Bald Eagle <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>	Breeds Oct 15 to Aug 31
Golden Eagle <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

### 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 "[Supplemental Information on Migratory Birds and Eagles](#)", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

#### Breeding Season (■)

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

#### Survey Effort (|)

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

#### No Data (—)

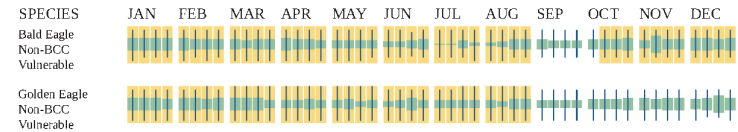
A week is marked as having no data if there were no survey events for that week.

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

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Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

### 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<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

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

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

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492nd Special Operations Wing Beddown at Davis-Monthan Air Force Base  
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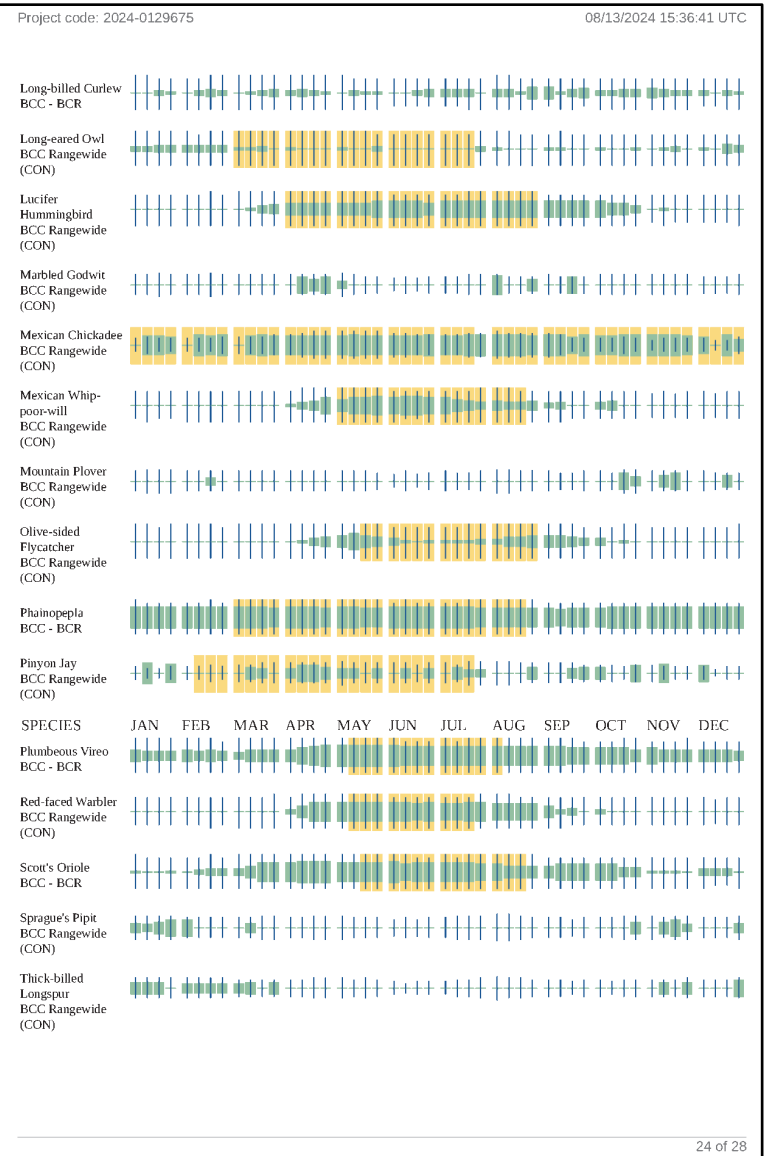
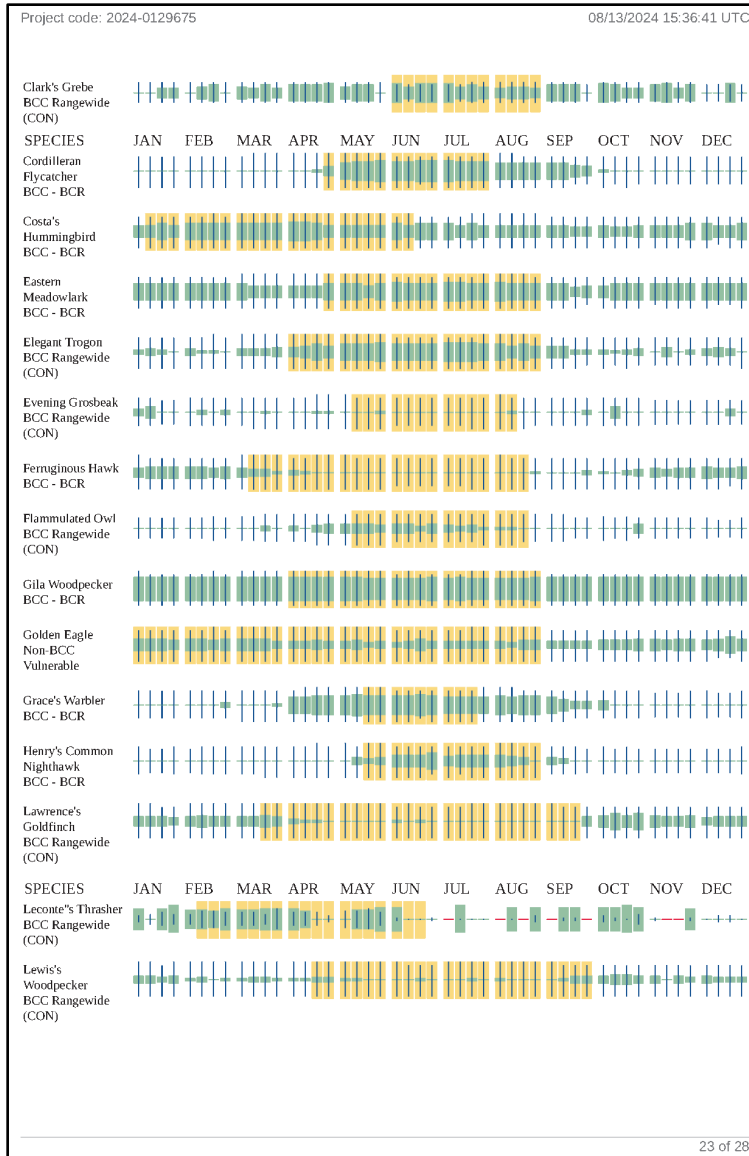
Project code: 2024-0129675		08/13/2024 15:36:41 UTC		Project code: 2024-0129675		08/13/2024 15:36:41 UTC	
NAME		BREEDING SEASON		NAME		BREEDING SEASON	
American Avocet <i>Recurvirostra americana</i>	This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/11927">https://ecos.fws.gov/ecp/species/11927</a>	Breeds Apr 21 to Aug 10		Chestnut-collared Longspur <i>Calcarius ornatus</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/9437">https://ecos.fws.gov/ecp/species/9437</a>	Breeds elsewhere	
Arizona Woodpecker <i>Dryobates arizonae</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/9673">https://ecos.fws.gov/ecp/species/9673</a>	Breeds Apr 10 to Jun 30		Clark's Grebe <i>Aechmophorus clarkii</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/10575">https://ecos.fws.gov/ecp/species/10575</a>	Breeds Jun 1 to Aug 31	
Baird's Sparrow <i>Centronyx bairdii</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/5113">https://ecos.fws.gov/ecp/species/5113</a>	Breeds elsewhere		Cordilleran Flycatcher <i>Empidonax occidentalis</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/11949">https://ecos.fws.gov/ecp/species/11949</a>	Breeds Apr 25 to Jul 25	
Bald Eagle <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>	Breeds Oct 15 to Aug 31		Costa's Hummingbird <i>Calypte costae</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/9470">https://ecos.fws.gov/ecp/species/9470</a>	Breeds Jan 15 to Jun 10	
Bendire's Thrasher <i>Toxostoma bendirei</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/9435">https://ecos.fws.gov/ecp/species/9435</a>	Breeds Mar 15 to Jul 31		Eastern Meadowlark <i>Sturnella magna</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/9455">https://ecos.fws.gov/ecp/species/9455</a>	Breeds Apr 25 to Aug 31	
Black-chinned Sparrow <i>Spizella atrogularis</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/9447">https://ecos.fws.gov/ecp/species/9447</a>	Breeds Apr 15 to Jul 31		Elegant Trogon <i>Trogon elegans</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/9624">https://ecos.fws.gov/ecp/species/9624</a>	Breeds Apr 1 to Aug 31	
Black-throated Gray Warbler <i>Setophaga nigrescens</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/9584">https://ecos.fws.gov/ecp/species/9584</a>	Breeds May 1 to Jul 20		Evening Grosbeak <i>Coccothraustes vespertinus</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/9465">https://ecos.fws.gov/ecp/species/9465</a>	Breeds May 15 to Aug 10	
Broad-tailed Hummingbird <i>Selasphorus platycercus</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/11935">https://ecos.fws.gov/ecp/species/11935</a>	Breeds May 25 to Aug 21		Ferruginous Hawk <i>Buteo regalis</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/6038">https://ecos.fws.gov/ecp/species/6038</a>	Breeds Mar 15 to Aug 15	
Cactus Wren <i>Campylorhynchus brunneicapillus guttatus</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/8834">https://ecos.fws.gov/ecp/species/8834</a>	Breeds Mar 5 to Sep 30		Flammulated Owl <i>Psiloscops flammeolus</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/7728">https://ecos.fws.gov/ecp/species/7728</a>	Breeds May 10 to Aug 15	
Cassin's Sparrow <i>Peucaea cassinii</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/9512">https://ecos.fws.gov/ecp/species/9512</a>	Breeds Aug 1 to Oct 10		Gila Woodpecker <i>Melanerpes uropygialis</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/5960">https://ecos.fws.gov/ecp/species/5960</a>	Breeds Apr 1 to Aug 31	

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NAME	BREEDING SEASON	NAME	BREEDING SEASON	NAME	BREEDING SEASON	NAME	BREEDING SEASON
Golden Eagle <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	Mexican Chickadee <i>Poecile sclateri</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/10585">https://ecos.fws.gov/ecp/species/10585</a>	Breeds Aug 5 to Jul 15	Mexican Whip-poor-will <i>Antrostomus arizonae</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/10680">https://ecos.fws.gov/ecp/species/10680</a>	Breeds May 1 to Aug 20	Mountain Plover <i>Charadrius montanus</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/3638">https://ecos.fws.gov/ecp/species/3638</a>	Breeds elsewhere
Grace's Warbler <i>Setophaga graciae</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/9514">https://ecos.fws.gov/ecp/species/9514</a>	Breeds May 20 to Jul 20	Olive-sided Flycatcher <i>Contopus cooperi</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/3914">https://ecos.fws.gov/ecp/species/3914</a>	Breeds May 20 to Aug 31	Phainopepla <i>Phainopepla nitens lepida</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/11973">https://ecos.fws.gov/ecp/species/11973</a>	Breeds Mar 1 to Aug 20	Pinyon Jay <i>Gymnorhinus cyanocephalus</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/9420">https://ecos.fws.gov/ecp/species/9420</a>	Breeds Feb 15 to Jul 15
Henry's Common Nighthawk <i>Chordeiles minor henryi</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/11979">https://ecos.fws.gov/ecp/species/11979</a>	Breeds May 21 to Aug 25	Plumbeous Vireo <i>Vireo plumbeus</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/11933">https://ecos.fws.gov/ecp/species/11933</a>	Breeds May 10 to Aug 5	Red-faced Warbler <i>Cardellina rubrifrons</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/9578">https://ecos.fws.gov/ecp/species/9578</a>	Breeds May 10 to Jul 15	Scott's Oriole <i>Icterus parisorum</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/11968">https://ecos.fws.gov/ecp/species/11968</a>	Breeds May 21 to Aug 15
Lawrence's Goldfinch <i>Spinus 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	Marbled Godwit <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	Sprague's Pipit <i>Anthus spragueii</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/8964">https://ecos.fws.gov/ecp/species/8964</a>	Breeds elsewhere		
Leconte's Thrasher <i>Toxostoma lecontei</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/8969">https://ecos.fws.gov/ecp/species/8969</a>	Breeds Feb 15 to Jun 20						
Lewis's Woodpecker <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						
Long-billed Curlew <i>Numenius americanus</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/5511">https://ecos.fws.gov/ecp/species/5511</a>	Breeds elsewhere						
Long-eared Owl <i>asio otus</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/3631">https://ecos.fws.gov/ecp/species/3631</a>	Breeds Mar 1 to Jul 15						
Lucifer Hummingbird <i>Calothorax lucifer</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/9576">https://ecos.fws.gov/ecp/species/9576</a>	Breeds Apr 1 to Aug 31						

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NAME		BREEDING SEASON		Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.			
Thick-billed Longspur <i>Rhynchophanes mccownii</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/11901">https://ecos.fws.gov/ecp/species/11901</a>	Breeds elsewhere		<b>No Data (-)</b> A week is marked as having no data if there were no survey events for that week.			
Varied Bunting <i>Passerina versicolor</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/9725">https://ecos.fws.gov/ecp/species/9725</a>	Breeds Apr 25 to Sep 30					
Virginia's Warbler <i>Leiothlypis virginiae</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/9441">https://ecos.fws.gov/ecp/species/9441</a>	Breeds May 1 to Jul 31					
Western Grebe <i>aechmophorus occidentalis</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/6743">https://ecos.fws.gov/ecp/species/6743</a>	Breeds Jun 1 to Aug 31					
Whiskered Screech-owl <i>Megascops trichopsis</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/10569">https://ecos.fws.gov/ecp/species/10569</a>	Breeds Apr 15 to Jul 31					
Willet <i>Tringa semipalmata</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/10669">https://ecos.fws.gov/ecp/species/10669</a>	Breeds elsewhere					
<b>PROBABILITY OF PRESENCE SUMMARY</b>							
<p>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 "<a href="#">Supplemental Information on Migratory Birds and Eagles</a>", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.</p>							
<b>Probability of Presence (■)</b>							
Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.							
<b>Breeding Season (■)</b>							
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.							
<b>Survey Effort ( )</b>							
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<p>Varied Bunting BCC Rangewide (CON)</p> <p>Virginia's Warbler BCC Rangewide (CON)</p> <p>Western Grebe BCC Rangewide (CON)</p> <p>Whiskered Screech-owl BCC Rangewide (CON)</p> <p>Willet BCC Rangewide (CON)</p>	<ul style="list-style-type: none"> <li>▪ PSS1Ah</li> <li>▪ PFO1/SS2C</li> <li>▪ PSS2J</li> <li>▪ PFO1C</li> <li>▪ PSS1/2C</li> <li>▪ PSS1/2Ah</li> <li>▪ PFO1/SS1C</li> <li>▪ PSS1A</li> <li>▪ PSS1Ax</li> <li>▪ PSSC</li> <li>▪ PSS1Cx</li> <li>▪ PSS2A</li> <li>▪ PFO1/SS2A</li> <li>▪ PFOC</li> <li>▪ PSS1C</li> <li>▪ PSS</li> <li>▪ PSS1/2Kx</li> <li>▪ PFO1A</li> </ul>		
<p>Additional information can be found using the following links:</p> <ul style="list-style-type: none"> <li>▪ Eagle Management <a href="https://www.fws.gov/program/eagle-management">https://www.fws.gov/program/eagle-management</a></li> <li>▪ Measures for avoiding and minimizing impacts to birds <a href="https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds">https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds</a></li> <li>▪ Nationwide conservation measures for birds <a href="https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf">https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf</a></li> <li>▪ Supplemental Information for Migratory Birds and Eagles in IPaC <a href="https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action">https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</a></li> </ul>	<p>FRESHWATER POND</p> <ul style="list-style-type: none"> <li>▪ PUBF</li> <li>▪ PAB4Fx</li> <li>▪ PUB</li> </ul> <p>FRESHWATER EMERGENT WETLAND</p> <ul style="list-style-type: none"> <li>▪ PEM1/SS1A</li> <li>▪ PEM1Ch</li> <li>▪ PEM1J</li> <li>▪ PEM1C</li> <li>▪ PEM1A</li> <li>▪ PEM1Ah</li> <li>▪ PEM1B</li> <li>▪ PEM1/SS1Ch</li> <li>▪ PEM1/SS1C</li> </ul>		
<p><b>WETLANDS</b></p> <p>Impacts to <a href="#">NWI wetlands</a> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.</p> <p>For more information please contact the Regulatory Program of the local <a href="#">U.S. Army Corps of Engineers District</a>.</p> <p>Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.</p> <p>Due to your project's size, the list below may be incomplete, or the acreages reported may be inaccurate. For a full list, please contact the local U.S. Fish and Wildlife office or visit <a href="https://www.fws.gov/wetlands/data/mapper.HTML">https://www.fws.gov/wetlands/data/mapper.HTML</a>.</p>	<p>LAKE</p> <ul style="list-style-type: none"> <li>▪ L2UBH</li> <li>▪ L2USC</li> <li>▪ L1UBH</li> </ul>		
<p>FRESHWATER FORESTED/SHRUB WETLAND</p> <ul style="list-style-type: none"> <li>▪ PFO1/SS1A</li> <li>▪ PSS1/2A</li> </ul>			
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- L2EM2F
- L2USA

#### **IPAC USER CONTACT INFORMATION**

Agency: Private Entity  
Name: Beau Rapier  
Address: 8081 Innovation Park Drive  
City: Baton Rouge  
State: LA  
Zip: 70820  
Email: beau@gsrcorp.com  
Phone: 2257578088

#### **LEAD AGENCY CONTACT INFORMATION**

Lead Agency: Air Force  
Name: Beau Rapier  
Email: beau@gsrcorp.com  
Phone: 2177229249

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## Arizona Environmental Online Review Tool Report



Arizona Game and Fish Department Mission  
To conserve Arizona's diverse wildlife resources and manage for safe, compatible outdoor recreation opportunities for current and future generations.

**Project Name:**  
DMAFB 492 SOW

**User Project Number:**  
80884001\_May 2024

**Project Description:**

The United States (U.S.) Department of the Air Force (DAF) is proposing to transform the 492nd Special Operations Wing (492 SOW) into the Air Force Special Operations Command (AFSOC) third Power Projection Wing (PPW) at Davis-Monthan Air Force Base (AFB), Arizona. AFSOC's third PPW would include the 492 SOW, the 6th and 319th Special Operations Squadrons, an MC-130J squadron, activation of an Intelligence Squadron (IS) as a geographically separated unit under the Air Combat Command (ACC) 361st Intelligence, Surveillance, and Reconnaissance Group (361 ISRG), and Special Tactics and Special Operations Theater Air Operations Squadrons. Throughout this document, all these units are included in the phrase "492 SOW Beddown." The 492 SOW Beddown would include both OA-1K and MC-130J aircraft. This Environmental Impact Statement (EIS) is being developed in compliance with the National Environmental Policy Act (NEPA) (42 United States Code 4321 et seq.), Council on Environmental Quality regulations (2022 promulgation), and the DAF's Environmental Impact Analysis Process (32 Code of Federal Regulations [CFR] 889). These regulations require federal agencies to complete an EIS for any proposal that may significantly affect the quality of the natural and human environment, outline the responsibilities of federal agencies, and provide specific procedures for preparing EISs to comply with NEPA. In addition, the DAF is evaluating how the Proposed Action might be affected by or impact other federal and state regulatory and planning processes, such as the Clean Air Act, Clean Water Act, or National Historic Preservation Act. This EIS incorporates various documents by reference.

**Project Type:**  
Military Activities, Integrated Natural Resource Management Planning (INRMP)

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**Contact Person:**  
amanda anderson

**Organization:**  
gulf south research corporation

**On Behalf Of:**  
PRIVATE

**Project ID:**  
HGIS-21894

Please review the entire report for project type and/or species recommendations for the location information entered. Please retain a copy for future reference.

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**Disclaimer:**

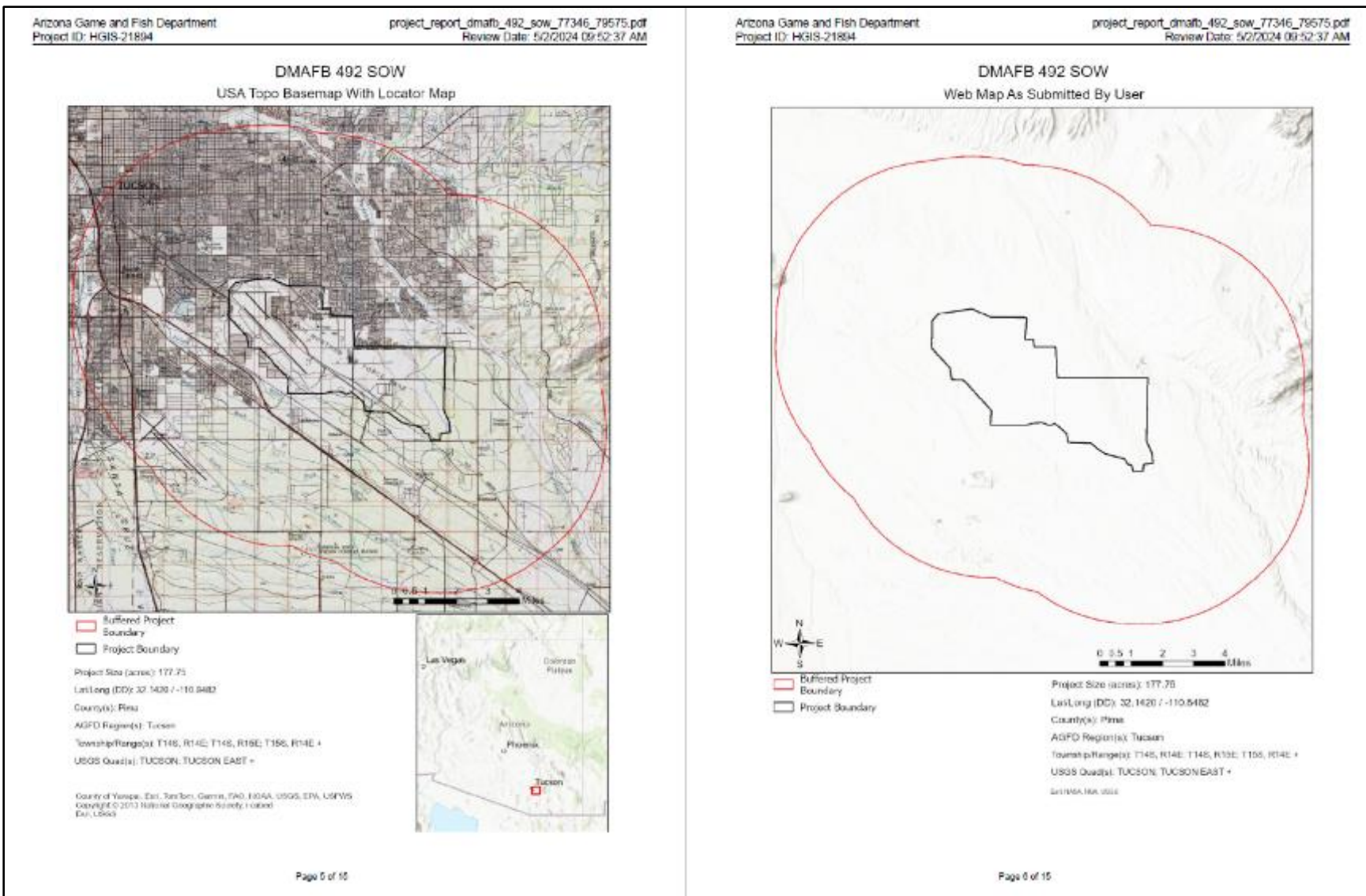
1. This Environmental Review is based on the project study area that was entered. The report must be updated if the project study area, location, or the type of project changes.
2. This is a preliminary environmental screening tool. It is not a substitute for the potential knowledge gained by having a biologist conduct a field survey of the project area. This review is also not intended to replace environmental consultation (including federal consultation under the Endangered Species Act), land use permitting, or the Department's review of site-specific projects.
3. The Department's Heritage Data Management System (HDMS) data is not intended to include potential distribution of special status species. Arizona is large and diverse with plants, animals, and environmental conditions that are ever changing. Consequently, many areas may contain species that biologists do not know about or species previously noted in a particular area may no longer occur there. HDMS data contains information about species occurrences that have actually been reported to the Department. Not all of Arizona has been surveyed for special status species, and surveys that have been conducted have varied greatly in scope and intensity. Such surveys may reveal previously undocumented population of species of special concern.
4. Arizona Wildlife Conservation Strategy (AWCS), specifically Species of Greatest Conservation Need (SGCN), represent potential species distribution models for the State of Arizona which are subject to ongoing change, modification and refinement. The status of a wildlife resource can change quickly, and the availability of new data will necessitate a refined assessment.

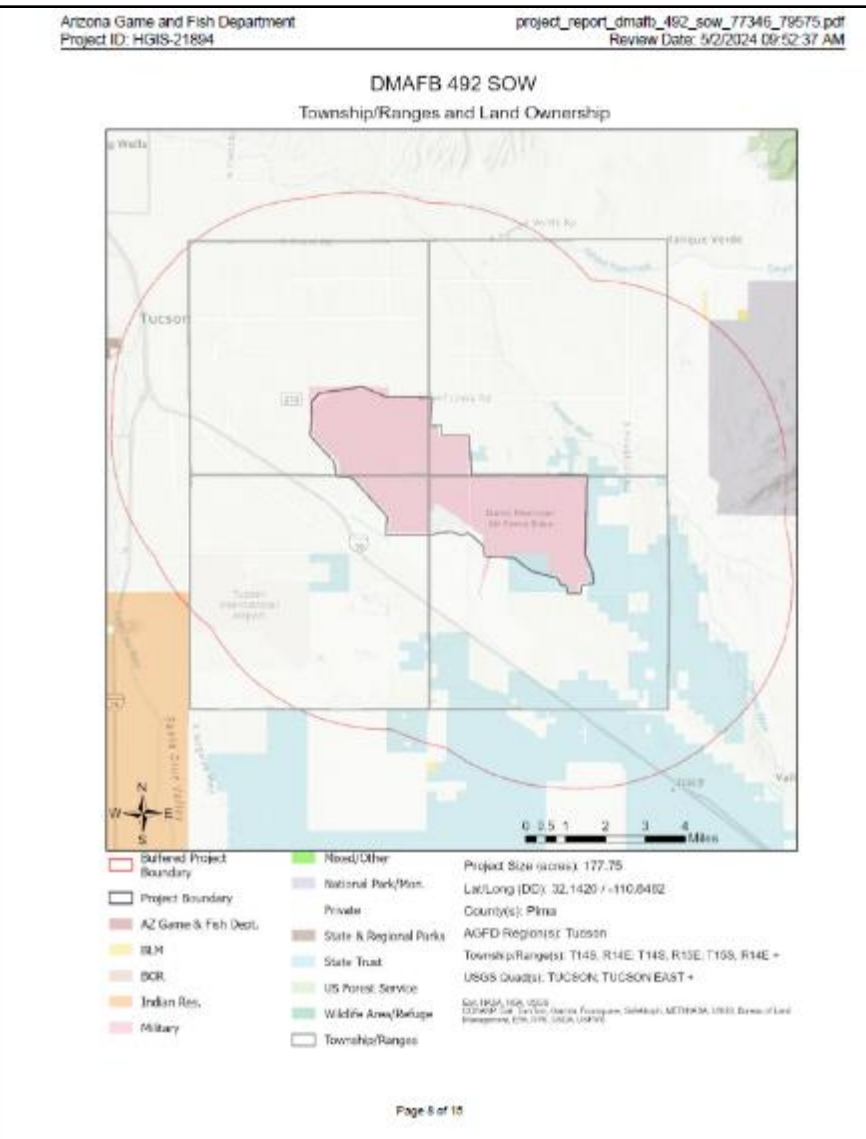
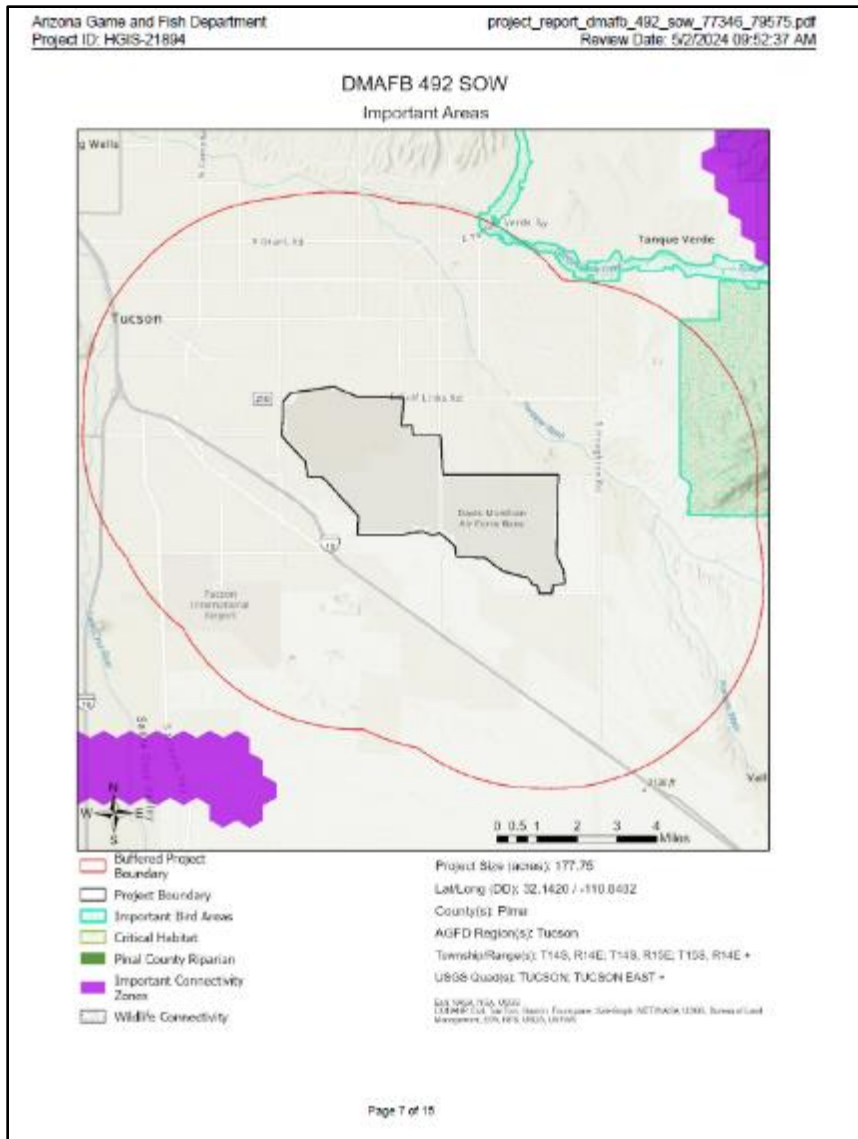
**Locations Accuracy Disclaimer:**

Project locations are assumed to be both precise and accurate for the purposes of environmental review. The creator/owner of the Project Review Report is solely responsible for the project location and thus the correctness of the Project Review Report content.

**Recommendations Disclaimer:**

1. The Department is interested in the conservation of all fish and wildlife resources, including those species listed in this report and those that may have not been documented within the project vicinity as well as other game and nongame wildlife.
2. Recommendations have been made by the Department, under authority of Arizona Revised Statutes Title 5 (Amusements and Sports), 17 (Game and Fish), and 28 (Transportation).
3. Potential impacts to fish and wildlife resources may be minimized or avoided by the recommendations generated from information submitted for your proposed project. These recommendations are preliminary in scope, designed to provide early considerations on all species of wildlife.
4. Making this information directly available does not substitute for the Department's review of project proposals, and should not decrease our opportunity to review and evaluate additional project information and/or new project proposals.
5. Further coordination with the Department requires the submittal of this Environmental Review Report with a cover letter and project plans or documentation that includes project narrative, acreage to be impacted, how construction or project activity(s) are to be accomplished, and project locality information (including site map). Once AGFD had received the information, please allow 30 days for completion of project reviews. Send requests to:  
Project Evaluation Program, Habitat Branch  
Arizona Game and Fish Department  
5000 West Carefree Highway  
Phoenix, Arizona 85006-5000  
Phone Number: (623) 236-7600  
Fax Number: (623) 236-7388  
Or  
[PEP@agfd.gov](mailto:PEP@agfd.gov)
6. Coordination may also be necessary under the National Environmental Policy Act (NEPA) and/or Endangered Species Act (ESA). Site specific recommendations may be proposed during further NEPA/ESA analysis or through coordination with affected agencies.





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Special Status Species Documented within 5 Miles of Project Vicinity						
Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Abutilon parvifolium</i>	Pima Indian Malow	SC	S	S	SR	
<i>Accipiter atricapillus</i>	American Goshawk	SC	S	S		2
<i>Aechmophorus occidentalis</i>	Western Grebe					2
<i>Agelaius phoeniceus</i>	Red-winged Blackbird					2
<i>Agrostis chrysogaster chrysogaster</i>	Gila Longfin Dace	SC		S		2
<i>Ammospermophilus harrisi</i>	Harris' Antelope Squirrel					2
<i>Amphispiza bilineata</i>	Black-throated Sparrow					2
<i>Anthus rubescens</i>	American Pipit					2
<i>Aspidoscelis sonora</i>	Sonoran Spotted Whiptail					2
<i>Aspidoscelis stictogrammus</i>	Giant Spotted Whiptail	SC	S			2
<i>Athene curiolularia hypugaea</i>	Western Burrowing Owl	SC	S	S		2
<i>Auriparus flaviceps</i>	Verdin					2
	Bat Colony					
<i>Buteo swainsoni</i>	Swainson's Hawk					2
<i>Calamospiza melanocorys</i>	Lark Bunting					2
<i>Callipepla squamata</i>	Scaled Quail					2
<i>Calypte costae</i>	Costa's Hummingbird					2
<i>Campylorhynchus brunneicapillus</i>	Cactus Wren					2
<i>Capsicum annuum var. glabrusculum</i>	Chiltepin		S			
<i>Cardinalis sinuatus</i>	Pyrrhuloxia					2
<i>Catharus guttatus</i>	Hermit Thrush					2
<i>Catharus ustulatus</i>	Swainson's Thrush					2
<i>Chaetodipus baileyi</i>	Bailey's Pocket Mouse					2
<i>Charadrius vociferus</i>	Killdeer					2
<i>Chilomeniscus cinctus</i>	Variable Sandsnake					2
<i>Choeronycteris mexicana</i>	Mexican Long-tongued Bat	SC	S	S		2
<i>Circus hudsonius</i>	Northern Harrier					2
<i>Coccyzus americanus</i>	Yellow-billed Cuckoo (Western DPS)	LT	S	S		1
<i>Colaptes chrysoides</i>	Gilded Flicker			S		2
<i>Coluber bilineatus</i>	Sonoran Whipsnake					2
<i>Columba inca</i>	Inca Dove					2
<i>Contopus cooperi</i>	Olive-sided Flycatcher	SC				2
<i>Contopus sordidulus</i>	Western Wood-Pewee					2
<i>Corvus cryptoleucus</i>	Chihuahuan Raven					2
<i>Corynorhinus townsendii pallasiensis</i>	Pale Townsend's Big-eared Bat	SC	S	S		1
<i>Coryphantha scheeri var. robustispina</i>	Pima Pinesapple Cactus	LE		S	HS	
<i>Crotalus tigris</i>	Tiger Rattlesnake					2
<i>Cyananthus latirostris</i>	Broad-billed Hummingbird		S			2

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Special Status Species Documented within 5 Miles of Project Vicinity						
Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Cyprinodon eremus</i>	Quitobaquito Pupfish	LE				1
<i>Danaus plexippus</i>	Monarch	C		S		
<i>Echinomastus erectocentrus var. erectocentrus</i>	Needle-spined Pinesapple Cactus	SC			SR	
<i>Empidonax wrightii</i>	Gray Flycatcher					2
<i>Eryngium sparganophyllum</i>	Arizona Eryngo	LE		S		
<i>Eugenes fulgens</i>	Rivoli's Hummingbird					2
<i>Euphagus cyanocephalus</i>	Brewer's Blackbird					2
<i>Falco mexicanus</i>	Prairie Falcon					2
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	SC	S	S		1
<i>Falco sparverius</i>	American Kestrel					2
<i>Gastrophryne mazatlanensis</i>	Sinaloa Narrow-mouthed Toad			S		2
<i>Geothlypis tolmiei</i>	MacGillivray's Warbler					2
<i>Gopherus morafkai</i>	Sonoran Desert Tortoise	CCA	S	S		1
<i>Helodermis suspectum</i>	Gila Monster					1
<i>Icterus bullockii</i>	Bullock's Oriole					2
<i>Icterus cucullatus</i>	Hooded Oriole					2
<i>Inillus alvarius</i>	Sonoran Desert Toad					2
<i>Kinostemon sonoriense sonoriense</i>	Desert Mud Turtle			S		2
<i>Lanius ludovicianus</i>	Loggerhead Shrike	SC				2
<i>Lasius xanthinus</i>	Western Yellow Bat		S			2
<i>Leptonycteris yerbabuenae</i>	Lesser Long-nosed Bat	SC		S		1
<i>Lepus alleni</i>	Antelope Jackrabbit					2
<i>Lilaeopsis schaffneriana ssp. recurva</i>	Huachuca Water-umbel	LE		S	HS	
<i>Lysiloma watsonii</i>	Littleleaf False Tamarind					SR
<i>Megascops kennicottii</i>	Western Screech-owl					2
<i>Melanerpes uropygialis</i>	Gila Woodpecker					2
<i>Melospiza lincolni</i>	Lincoln's Sparrow					2
<i>Melospiza aberi</i>	Aber's Towhee		S			2
<i>Melospiza fusca</i>	Canyon Towhee					2
<i>Micruroides euryxanthus</i>	Sonoran Coralsnake					2
<i>Myotis occultus</i>	Arizona Myotis	SC		S		
<i>Myotis velifer</i>	Cave Myotis	SC		S		2
<i>Myotis yumanensis</i>	Yuma Myotis	SC				2
<i>Opuntia versicolor</i>	Stag-horn Cholla					SR
<i>Parabuteo unicinctus</i>	Harris' Hawk					2
<i>Passerculus sandwichensis</i>	Savannah Sparrow					2
<i>Peucaea carpalis</i>	Rufous-winged Sparrow					2
<i>Phrynosoma solare</i>	Regal Horned Lizard					2

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**Special Status Species Documented within 5 Miles of Project Vicinity**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Poeciliopsis occidentalis occidentalis	Gila Topminnow	LE,UR		S		1
Pooecetes gramineus	Vesper Sparrow					2
Rana yavapaiensis	Lowland Leopard Frog	SC	S	S		1
Selasphorus platycercus	Broad-tailed Hummingbird					2
Setophaga nigrescens	Black-throated Gray Warbler					2
Spizella breweri	Brewer's Sparrow					2
Tadarida brasiliensis	Brazilian Free-tailed Bat					2
Terrapene ornata luteola	Desert Box Turtle			S		1

Note: Status code definitions can be found at <https://www.azgfd.com/wildlife-conservation/on-the-ground-conservation/state-wildlife-action-plan/state-wildlife-action-plan-status-definitions/>

**Special Areas Documented that Intersect with Project Footprint as Drawn**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Tucson Urban Riparian Linkages	Pima County Wildlife Movement Area Riparian/Wash					

Note: Status code definitions can be found at <https://www.azgfd.com/wildlife-conservation/on-the-ground-conservation/state-wildlife-action-plan/state-wildlife-action-plan-status-definitions/>

**Species of Greatest Conservation Need Predicted that Intersect with Project Footprint as Drawn, based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Accipiter gentilis	Northern Goshawk	SC	S	S		2
Ammodramus savannarum perpallidus	Western Grasshopper Sparrow					2
Ammospermophilus harrisi	Harris' Antelope Squirrel					2
Anthus spragueii	Sprague's Pipit	SC				2
Anurostomus ridgwayi	Buff-collared Nightjar		S			2
Aquila chrysaetos	Golden Eagle			S		2
Asio otus	Long-eared Owl					2
Aspidoscelis sonora	Sonoran Spotted Whiptail					2
Athene cucularia hypugaea	Western Burrowing Owl	SC	S	S		2
Auriparus flaviceps	Vardin					2
Botaurus lentiginosus	American Bittern					2
Buteo regalis	Ferruginous Hawk	SC		S		2
Buteo swainsoni	Swainson's Hawk					2
Buteogallus anthracinus	Common Black Hawk					2
Calcarius ornatus	Chestnut-collared Longspur					2
Callipepla squamata	Scaled Quail					2
Calypte costae	Costa's Hummingbird					2

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**Species of Greatest Conservation Need Predicted that Intersect with Project Footprint as Drawn, based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Camptostoma imberbe	Northern Beardless-Tyrannulet		S			2
Campylorhynchus brunneicapillus	Cactus Wren					2
Catharus ustulatus	Swainson's Thrush					2
Chaetodipus baileyi	Bailey's Pocket Mouse					2
Charadrius montanus	Mountain Plover	SC				2
Chilomeniscus stramineus	Variable Sandsnake					2
Choeronycteris mexicana	Mexican Long-tongued Bat	SC	S	S		2
Chordeiles minor	Common Nighthawk					2
Coccyzus americanus	Yellow-billed Cuckoo (Western DPS)					2
Colaptes chrysoides	Golden Flicker			S		2
Coluber bilineatus	Sonoran Whipsnake					2
Columba inca	Inca Dove					2
Corvus cryptoleucus	Chihuahuan Raven					2
Corynorhinus townsendi pallidus	Pale Townsend's Big-eared Bat	SC	S	S		1
Crotalus tigris	Tiger Rattlesnake					2
Cyananthus latirostris	Broad-billed Hummingbird		S			2
Empidonax wrightii	Gray Flycatcher					2
Eumops perotis californicus	Greater Western Bonneted Bat					2
Falco mexicanus	Prairie Falcon					2
Falco peregrinus anatum	American Peregrine Falcon					2
Falco sparverius	American Kestrel					2
Gastrophyne mazatlanensis	Sinaloa Narrow-mouthed Toad					2
Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl					2
Gopherus morafkai	Sonoran Desert Tortoise	CCA	S	S		1
Haemorhous cassinii	Cassin's Finch					2
Heloderma suspectum	Gila Monster					1
Icterus bullockii	Bullock's Oriole					2
Icterus cucullatus	Hooded Oriole					2
Icterus parisorum	Scott's Oriole					2
Inciilius alvarius	Sonoran Desert Toad					2
Kinostemon sonoriense sonoriense	Desert Mud Turtle					2
Lanius ludovicianus	Loggerhead Shrike	SC				2
Lasiurus blossevilli	Western Red Bat		S			2
Lasiurus cinereus	Hoary Bat					2
Lasiurus xanthinus	Western Yellow Bat		S			2
Leptonycteris verbabuena	Lesser Long-nosed Bat	SC				1
Lithobates yavapaiensis	Lowland Leopard Frog	SC	S	S		1
Macrotus californicus	California Leaf-nosed Bat	SC		S		2
Megascops kernicotti	Western Screech-owl					2

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 Project ID: HGIS-21894

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**Species of Greatest Conservation Need Predicted that Intersect with Project Footprint as Drawn, based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Melanerpes uropygialis	Gila Woodpecker					2
Melospiza lincolni	Lincoln's Sparrow					2
Melospiza aberti	Abert's Towhee		S			2
Micrathene whitneyi	Elf Owl					
Micruroides euryxanthus	Sonoran Coralsnake					2
Myadestes townsendi	Townsend's Solitaire					2
Myiarchus tuberculifer	Dusky-capped Flycatcher					2
Myotis auriculus	Southwestern Myotis					2
Myotis thysanodes	Fringed Myotis	SC				2
Myotis velifer	Cave Myotis	SC		S		2
Myotis yumanensis	Yuma Myotis	SC				2
Notiosorex cockrumi	Cockrum's Desert Shrew					2
Nyctinomops femorosaccus	Pockled Free-tailed Bat					2
Nyctinomops macrotis	Big Free-tailed Bat	SC				2
Parabuteo unicinctus	Harris's Hawk					2
Passerculus sandwichensis	Savannah Sparrow					2
Perognathus amplus	Arizona Pocket Mouse					2
Peucaea carpalis	Rufous-winged Sparrow					2
Phrynosoma solare	Regal Horned Lizard					2
Phyllorhynchus browni	Saddled Leaf-nosed Snake					2
Pooecetes gramineus	Vesper Sparrow					2
Progne subis hesperia	Desert Purple Martin					
Sigmodon arizonae cienegae	Arizona Cotton Rat					2
Spizella breweri	Brewer's Sparrow					2
Strix occidentalis lucida	Mexican Spotted Owl		LT			1
Tadarida brasiliensis	Brazilian Free-tailed Bat					2
Toxostoma bendirei	Bendire's Thrasher					2
Troglodytes pacificus	Pacific Wren					2

**Species of Economic and Recreation Importance Predicted that Intersect with Project Footprint as Drawn**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Callipepla gambelli	Gambel's Quail					
Odocoileus hemionus	Mule Deer					
Pecari tajacu	Javelina					
Puma concolor	Mountain Lion					
Zenaidura macroura	White-winged Dove					
Zenaidura macroura	Mourning Dove					

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 Review Date

**Project Type: Military Activities, Integrated Natural Resource Management Planning (INRM)**

**Project Type Recommendations:**  
 Minimize the potential introduction or spread of exotic invasive species, including aquatic and terrestrial insects and pathogens. Precautions should be taken to wash and/or decontaminate all equipment activities before entering and leaving the site. See the Arizona Department of Agriculture website and restricted noxious weeds at <https://www.invasivespeciesinfo.gov/unitedstates/az.shtml> and the Society <https://aznps.com/invas> for recommendations on how to control. To view a list of documents to report invasive species in or near your project area visit iMapInvasives - a national cloud-based and managing invasive species at <https://imap.natureserve.org/imap/services/page/map.html>.

- To build a list: zoom to your area of interest, use the identify/measure tool to draw a polygon around your area of interest, and select "See What's Here" for a list of reported species. To export the list, you must create an account and be logged in. You can then use the export tool to draw a boundary and export the file.

**The Department requests further coordination to provide project/species specific recommendations. Please contact Project Evaluation Program directly at [PEP@azgfd.gov](mailto:PEP@azgfd.gov).**

**Project Location and/or Species Recommendations:**  
 HDMS records indicate that one or more native plants listed on the Arizona Native Plant Law have been documented within the vicinity of your project area. Please contact:  
 Arizona Department of Agriculture  
 1688 W Adams St.  
 Phoenix, AZ 85007  
 Phone: 602.542.4373  
<https://agriculture.az.gov/sites/default/files/Native%20Plant%20Rules%20-%20AZ%20Dept%20of%20Agriculture%20-%20page%2044>

Analysis indicates that your project is located in the vicinity of an identified [wildlife habitat.com](http://wildlife.habitat.com) County-level Stakeholder Assessments contain five categories of data (Barrier/Development, Wildlife Movement Area- Diffuse, Wildlife movement Area- Landscape, Wildlife Movement Area- provide a context of select anthropogenic barriers, and potential connectivity. The reports provide opportunities to preserve or enhance permeability. Project planning and implementation efforts to maintain and improve opportunities for wildlife permeability. For information pertaining to the and wildlife species that may be affected, please refer to: <https://www.azgfd.com/wildlife-conservation/planning-for-wildlife/planning-for-wildlife-identify>. Please contact the Project Evaluation Program ([pep@azgfd.gov](mailto:pep@azgfd.gov)) for specific project recommendations.

HDMS records indicate that **Lesser Long-nosed Bats** have been documented within the vicinity. Please review the Lesser Long-nosed Bat Management Guidelines at: <https://s3.amazonaws.com/azgfd-portal-wordpress/Portal/images/files/wildlife/planningForWildlifeFriendlyGuidelines/FINAL%20JecueHabitat>

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HDMS records indicate that one or more **Listed, Proposed, or Candidate** species or **Critical Habitat** (Designated or Proposed) have been documented in the vicinity of your project. The Endangered Species Act (ESA) gives the US Fish and Wildlife Service (USFWS) regulatory authority over all federally listed species. Please contact USFWS Ecological Services Offices at <https://www.fws.gov/office/arizona-ecological-services> or:

**Phoenix Main Office**

9828 North 31st Avenue #C3  
Phoenix, AZ 85051-2517  
Phone: 602-242-0210  
Fax: 602-242-2513

**Tucson Sub-Office**

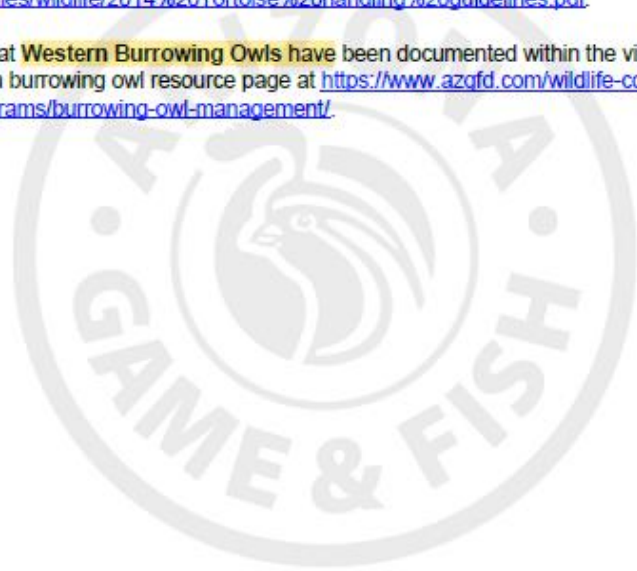
201 N. Bonita Suite 141  
Tucson, AZ 85745  
Phone: 520-670-6144  
Fax: 520-670-6155

**Flagstaff Sub-Office**

SW Forest Science Complex  
2500 S. Pine Knoll Dr.  
Flagstaff, AZ 86001  
Phone: 928-556-2157  
Fax: 928-556-2121

HDMS records indicate that **Sonoran Desert Tortoise** have been documented within the vicinity of your project area. Please review the Tortoise Handling Guidelines found at <https://s3.amazonaws.com/azgfd-portal-wordpress/PortallImages/files/wildlife/2014%20Tortoise%20handling%20guidelines.pdf>.

HDMS records indicate that **Western Burrowing Owls** have been documented within the vicinity of your project area. Please review the western burrowing owl resource page at <https://www.azgfd.com/wildlife-conservation/conservation-and-endangered-species-programs/burrowing-owl-management/>.



## Arizona Environmental Online Review Tool Report



*Arizona Game and Fish Department Mission  
To conserve Arizona's diverse wildlife resources and  
manage for safe, compatible outdoor recreation  
opportunities for current and future generations.*

**The Department requests further coordination to provide project/species specific recommendations.  
Please contact the Project Evaluation Program directly at [PEP@azgfd.gov](mailto:PEP@azgfd.gov).**

**Project Name:**

NATURAL RESOURCES SUPPORT ON THE AFSOC BASING AND BEDDOWN ENVIRONMENTAL  
IMPACT STATEMENT AT DM AFB

**Project Type:**

Military Activities, Development (new buildings, roads, etc.)

**Project ID:**

HGIS-22754

**Project Description:**

The Air Force Special Operations Command (AFSOC) is conducting a basing action at Davis-Monthan AFB in Arizona. As part of the basing action, an Environmental Impact Statement (EIS) will be prepared. The EIS shall provide sufficient, documented information to analyze potential environmental impacts associated with several ongoing strategic basing actions. The first of these is the proposed divestment of 84x A-10C aircraft from Davis-Monthan AFB and the transfer of AFSOCs 492nd Special Operations Wing and subsequent missions. The A-10C aircraft currently assigned to Davis-Monthan AFB would be divested in two phases. The 354th FS would be inactivated and the 357th FS and 47th FS would be reduced in FY24, divesting 36 A-10C aircraft by the end of FY24. In FY26 the 357th FS and 47th FS would be inactivated, and the remaining 46 aircraft would be divested. There would be a reduction of approximately 2,274 manpower authorizations associated with the divestiture of the A-10s at Davis-Monthan. AFSOC previously conducted a site visit to scope facilities. The AFSOC/A4IC and Det 3, IMSC team confirmed the condition and capacity for senior leadership decision space. AF/ABX provided guidance to focus on A-10C facilities only. The team compared the A-10C facilities with the AFSOC force structure to estimate beddown costing and requirements. Military Construction (MILCON) would potentially be programmed starting in FY28 and Facilities, Sustainment, Restoration, & Modification (FSRM) starting in FY26. The following is a list of proposed/potential MILCON based on the site visit: • 2-Bay MC-130J Hangar / AMU • STS Aquatic Trainer Facility • STS HPTC Facility • STS Dual Sq Ops Complex • Installation Comm Center The following is a list of proposed FSRM based on the site visit: • Back Shop Upgrades & Refresh • Renovate CDCs for Tenant Wing HQ Campus • Renovate 4413 & 1446 for MC-130J and OA-1K Simulators • Refresh 5251 & 5247 for Armed Overwatch • Refresh 4800/5600 for two MC-130J Squadron Operations • ADAL Fac for SERE/AFE/Oss • Refresh 5255 for MC-130J Corrosion Control • Convert 4400 to SCIF (T-AOS) • Restripe Ramp & Demo Sun Shades • STS Climbing Tower • Interim Swing Space

**Contact Person:**

Beau Rapier

**Organization:**

Gulf South Research Corporation

**On Behalf Of:**

DOD

**Disclaimer:**

1. This Environmental Review is based on the project study area that was entered. The report must be updated if the project study area, location, or the type of project changes.
2. This is a preliminary environmental screening tool. It is not a substitute for the potential knowledge gained by having a biologist conduct a field survey of the project area. This review is also not intended to replace environmental consultation (including federal consultation under the Endangered Species Act), land use permitting, or the Department's review of site-specific projects.
3. The Department's Heritage Data Management System (HDMS) data is not intended to include potential distribution of special status species. Arizona is large and diverse with plants, animals, and environmental conditions that are ever changing. Consequently, many areas may contain species that biologists do not know about or species previously noted in a particular area may no longer occur there. HDMS data contains information about species occurrences that have actually been reported to the Department. Not all of Arizona has been surveyed for special status species, and surveys that have been conducted have varied greatly in scope and intensity. Such surveys may reveal previously undocumented population of species of special concern.
4. Arizona Wildlife Conservation Strategy (AWCS), specifically Species of Greatest Conservation Need (SGCN), represent potential species distribution models for the State of Arizona which are subject to ongoing change, modification and refinement. The status of a wildlife resource can change quickly, and the availability of new data will necessitate a refined assessment.

**Locations Accuracy Disclaimer:**

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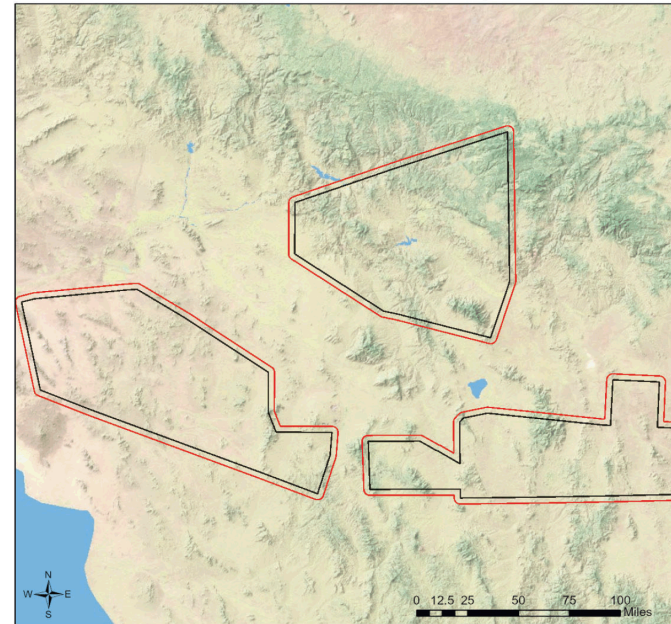
**Recommendations Disclaimer:**

1. The Department is interested in the conservation of all fish and wildlife resources, including those species listed in this report and those that may have not been documented within the project vicinity as well as other game and nongame wildlife.
2. Recommendations have been made by the Department, under authority of Arizona Revised Statutes Title 5 (Amusements and Sports), 17 (Game and Fish), and 28 (Transportation).
3. Potential impacts to fish and wildlife resources may be minimized or avoided by the recommendations generated from information submitted for your proposed project. These recommendations are preliminary in scope, designed to provide early considerations on all species of wildlife.
4. Making this information directly available does not substitute for the Department's review of project proposals, and should not decrease our opportunity to review and evaluate additional project information and/or new project proposals.
5. Further coordination with the Department requires the submittal of this Environmental Review Report with a cover letter and project plans or documentation that includes project narrative, acreage to be impacted, how construction or project activity(s) are to be accomplished, and project locality information (including site map). Once AGFD had received the information, please allow 30 days for completion of project reviews. Send requests to:

**Project Evaluation Program, Habitat Branch**  
 Arizona Game and Fish Department  
 5000 West Carefree Highway  
 Phoenix, Arizona 85086-5000  
 Phone Number: (623) 236-7600  
 Fax Number: (623) 236-7366  
 Or  
[PEP@azgfd.gov](mailto:PEP@azgfd.gov)

6. Coordination may also be necessary under the National Environmental Policy Act (NEPA) and/or Endangered Species Act (ESA). Site specific recommendations may be proposed during further NEPA/ESA analysis or through coordination with affected agencies.

**SUPPORT ON THE AFSOC BASING AND BEDDOWN ENVIRONMENTAL IMPACT  
 USA Topo Basemap With Locator Map**

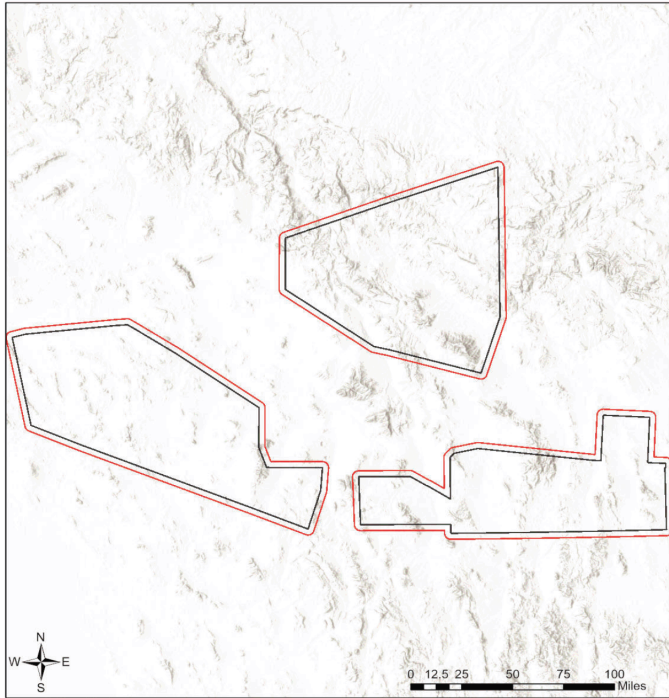


Buffered Project Boundary  
 Project Boundary  
 Project Size (acres): 13,119,946.32  
 Lat/Long (DD): 32.1817 / -112.4563  
 County(s): Apache; Cochise; Gila; Graham +  
 AGFD Region(s): Mesa; Pinetop; Tucson; Yuma  
 Township/Range(s): +  
 USGS Quad(s): AGUA DULCE MOUNTAINS; AGUILA MOUNTAINS NE +  
 County of Yavapai; Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS  
 Copyright:© 2013 National Geographic Society, i-cubed  
 Esri, USGS



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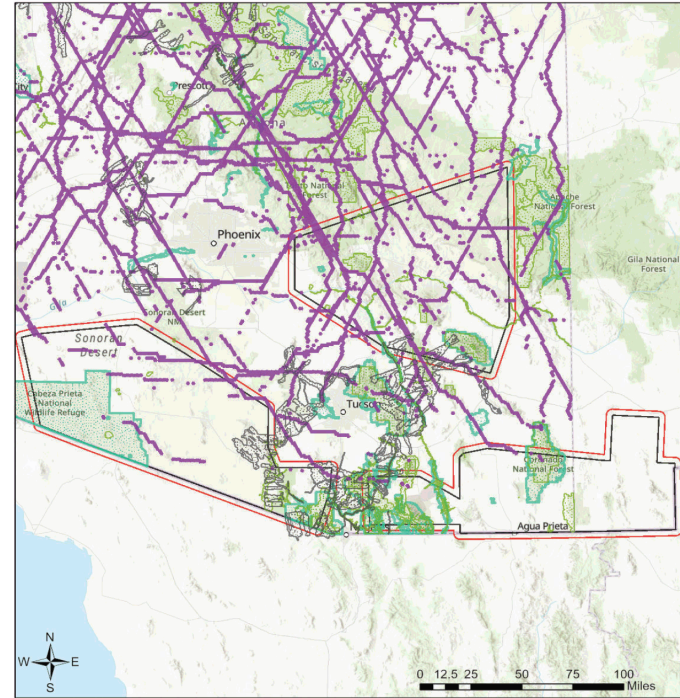
› SUPPORT ON THE AFSOC BASING AND BEDDOWN ENVIRONMENTAL IMPACT ›  
 Web Map As Submitted By User



Buffered Project Boundary  
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 AGFD Region(s): Mesa; Pinetop; Tucson; Yuma  
 Township/Range(s): +  
 USGS Quad(s): AGUA DULCE MOUNTAINS; AGUILA MOUNTAINS NE +  
 Ext: USGS

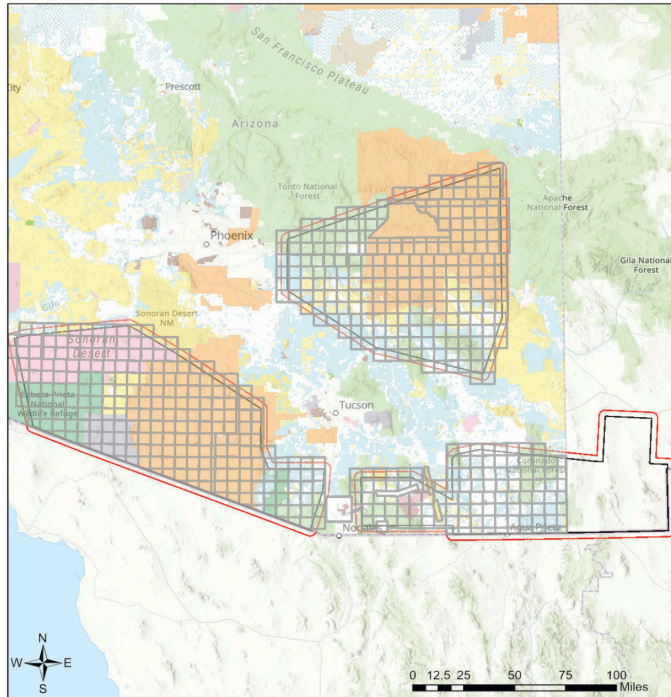
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› SUPPORT ON THE AFSOC BASING AND BEDDOWN ENVIRONMENTAL IMPACT ›  
 Important Areas



Buffered Project Boundary  
 Project Boundary  
 Important Bird Areas  
 Critical Habitat  
 Important Connectivity Zones  
 Wildlife Connectivity  
 Project Size (acres): 13,119,946.32  
 Lat/Long (DD): 32.1817 / -112.4563  
 County(s): Apache; Cochise; Gila; Graham +  
 AGFD Region(s): Mesa; Pinetop; Tucson; Yuma  
 Township/Range(s): +  
 USGS Quad(s): AGUA DULCE MOUNTAINS; AGUILA MOUNTAINS NE +  
 COPLAN: Esri; TomTom; Garmin; FAO; NOAA; USGS; Bureau of Land Management; EPA; IFLS; USFWS; Ext: USGS

SUPPORT ON THE AFSOC BASING AND BEDDOWN ENVIRONMENTAL IMPACT  
 Township/Ranges and Land Ownership



▭ Buffered Project Boundary  
▭ Project Boundary  
▭ AZ Game & Fish Dept.  
▭ BLM  
▭ BOR  
▭ Indian Res.  
▭ Military  
▭ Mixed/Other  
▭ National Park/Mon.  
▭ Private  
▭ State & Regional Parks  
▭ State Trust  
▭ US Forest Service  
▭ Wildlife Area/Refuge  
▭ Township/Ranges

Project Size (acres): 13,119,946.32  
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 AGFD Region(s): Mesa; Pinetop; Tucson; Yuma  
 Township/Range(s): +  
 USGS Quad(s): AGUA DULCE MOUNTAINS; AGUILA MOUNTAINS NE +

COLMAP, Esri, TomTom, Garmin, FAO, NOAA, USGS, Bureau of Land Management, EPA, NPS, USFWS, Esri, USGS

Special Status Species Documented within 3 Miles of Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Abutilon parishii</i>	Pima Indian Mallow	SC	S	S	SR	
<i>Accipiter atricapillus</i>	American Goshawk	SC	S	S		2
<i>Adopaeoides prittwiti</i>	Sunrise Skipper		S			
<i>Aechmophorus occidentalis</i>	Western Grebe					2
<i>Agathymus evansi</i>	Huachuca Giant-skipper		S			
<i>Agave delamateri</i>	Tonto Basin Agave	SC	S			
<i>Agave delamateri</i>	Tonto Basin Agave	SC	S		HS	
<i>Agave murpheyi</i>	Hohokam Agave	SC	S	S		
<i>Agave murpheyi</i>	Hohokam Agave	SC	S	S	HS	
<i>Agave parviflora ssp. parviflora</i>	Santa Cruz Striped Agave	SC	S			
<i>Agave parviflora ssp. parviflora</i>	Santa Cruz Striped Agave	SC	S		HS	
<i>Agave phillipsiana</i>	Phillips Agave		S		HS	
<i>Agave toumeyana var. bella</i>	Toumey Agave					SR
<i>Agelaius phoeniceus</i>	Red-winged Blackbird					2
<i>Agosia chrysogaster chrysogaster</i>	Gila Longfin Dace	SC		S		2
<i>Agosia chrysogaster ssp. 1</i>	Yaqui Longfin Dace	SC		S		2
<i>Agosia chrysogaster</i>	Longfin Dace	SC		S		2
<i>Allium goodingii</i>	Gooding Onion	CCA	S		HS	
<i>Allium plummerae</i>	Plummer Onion					SR
<i>Allium rhizomatum</i>	Redflower Onion					SR
<i>Ambystoma mavortium stebbinsi</i>	Sonoran Tiger Salamander	LE				1
<i>Ammodramus savannarum ammolegus</i>	Arizona grasshopper sparrow		S	S		2
<i>Ammospermophilus harrisi</i>	Harris' Antelope Squirrel					2
<i>Amoreuxia gonzalezii</i>	Saiya	SC	S		HS	
<i>Amphispiza bilineata</i>	Black-throated Sparrow					2
<i>Amphispiza quinquestrata</i>	Five-striped Sparrow					2
<i>Amsonia grandiflora</i>	Large-flowered Blue Star	SC	S			
<i>Amsonia kearneyana</i>	Kearney Blue-star	LE		S	HS	
<i>Anaxyrus microscaphus</i>	Arizona Toad	SC		S		2
<i>Anaxyrus retiformis</i>	Sonoran Green Toad			S		2
<i>Anthus rubescens</i>	American Pipit					2
<i>Anthus spragueii</i>	Sprague's Pipit	SC				2
<i>Antilocapra americana sonoriensis</i>	Sonoran Pronghorn	LE, XN		S		1
<i>Antilocapra americana sonoriensis</i>	Sonoran Pronghorn	LE		S		1
<i>Antilocapra americana sonoriensis</i>	Sonoran Pronghorn	XN		S		1
<i>Antrostomus ridgwayi</i>	Buff-collared Nightjar		S			2
<i>Apacheria chiricahuensis</i>	Chiricahua Rock Flower					SR
<i>Aphelocoma woodhouseii</i>	Woodhouse's Scrub-Jay					2
<i>Aquila chrysaetos</i>	Golden Eagle	BGA		S		2

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Special Status Species Documented within 3 Miles of Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Aquila chrysaetos</i>	Golden Eagle			S		2
<i>Argia sabino</i>	Sabino Canyon Dancer	SC	S			
<i>Asclepias lemmonii</i>	Lemmon Milkweed		S			
<i>Asclepias uncialis</i>	Greene Milkweed	SC	S			
<i>Ashmunella chiricahuana</i>	Cave Creek Woodlandsnail					2
<i>Ashmunella levettei</i>	Huachuca Woodlandsnail	UR				2
<i>Asio otus</i>	Long-eared Owl					2
<i>Aspidoscelis arizonae</i>	Arizona Striped Whiptail			S		
<i>Aspidoscelis sonorae</i>	Sonoran Spotted Whiptail					2
<i>Aspidoscelis stictogrammus</i>	Giant Spotted Whiptail	SC	S			2
<i>Aspidoscelis xanthonotus</i>	Red-backed Whiptail	SC	S			2
<i>Asplenium dalhousiae</i>	Dalhousie Spleenwort			S		
<i>Astragalus cobrensis</i> var. <i>maguirei</i>	Coppermine Milk-vetch	SC	S		SR	
<i>Astragalus hypoxylus</i>	Huachuca Milk-vetch	SC	S	S	SR	
<i>Athene cucularia hypugaea</i>	Western Burrowing Owl	SC	S	S		2
<i>Auriparus flaviceps</i>	Verdin					2
<i>Ayenia jaliscana</i>	Ayenia		S			
<i>Baiomys taylori</i>	Northern Pygmy Mouse		S			
Bat Colony						
<i>Berberis harrisoniana</i>	Kofa Mountain Barberry			S		
<i>Browallia eludens</i>	Bush-violet	SC	S			
<i>Buteo plagiatus</i>	Gray Hawk	SC				
<i>Buteo regalis</i>	Ferruginous Hawk	SC		S		2
<i>Buteo swainsoni</i>	Swainson's Hawk					2
<i>Buteogallus anthracinus</i>	Common Black Hawk					2
<i>Calamospiza melanocorys</i>	Lark Bunting					2
<i>Calcarius ornatus</i>	Chestnut-collared Longspur					2
<i>Callipepla squamata</i>	Scaled Quail					2
<i>Calothorax lucifer</i>	Lucifer Hummingbird		S			3
<i>Calypso bulbosa</i> var. <i>americana</i>	Fairy Slipper				SR	
<i>Calypte costae</i>	Costa's Hummingbird					2
<i>Camptostoma ornatum</i>	Mexican Stoneroller	SC	S			2
<i>Camptostoma imberbe</i>	Northern Beardless-Tyrannulet		S			2
<i>Campylorhynchus brunneicapillus</i>	Cactus Wren					2
<i>Canis lupus baileyi</i>	Mexican Wolf	LE, XN		S		1
<i>Capsicum annuum</i> var. <i>glabrusculum</i>	Chiltepín		S			
<i>Cardellina rubrifrons</i>	Red-faced Warbler					2
<i>Cardinalis sinuatus</i>	Pyrrhuloxia					2
<i>Carex chihuahuensis</i>	Chihuahuan Sedge		S			

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<i>Carex ultra</i>	Cochise Sedge		S	S		
<i>Castilleja mogollonica</i>	White Mountains Paintbrush	SC	S		SR	
<i>Castilleja nervata</i>	Trans-pecos Indian-paintbrush		S			
<i>Catharus guttatus</i>	Hermit Thrush					2
<i>Catharus ustulatus</i>	Swainson's Thrush					2
<i>Catostomus clarkii</i>	Desert Sucker	SC	S	S		2
<i>Catostomus insignis</i>	Sonora Sucker	SC	S	S		2
<i>Centronyx bairdii</i>	Baird's Sparrow	SC	S			2
<i>Chaetodipus baileyi</i>	Bailey's Pocket Mouse					2
<i>Charadrius vociferus</i>	Killdeer					2
<i>Chilomeniscus cinctus</i>	Variable Sandsnake					2
<i>Chionactis annulata</i>	Resplendent Shovel-nosed Snake					
<i>Chionactis pararostris organica</i>	Organ Pipe Shovel-nosed Snake					2
<i>Choeronycteris mexicana</i>	Mexican Long-tongued Bat	SC	S	S		2
<i>Choiysya mollis</i>	Santa Cruz Star Leaf	SC	S			
<i>Chordeiles minor</i>	Common Nighthawk					2
<i>Cicindela oregona maricopa</i>	Maricopa Tiger Beetle	SC				
<i>Circus hudsonius</i>	Northern Harrier					2
<i>Cirsium parryi</i>	Parry Thistle		S		SR	
<i>Coccothraustes vespertinus</i>	Evening Grosbeak					2
<i>Coccyzus americanus</i>	Yellow-billed Cuckoo (Western DPS)	LT	S	S		1
<i>Colaptes chrysoides</i>	Gilded Flicker			S		2
<i>Colinus virginianus ridgwayi</i>	Masked Bobwhite	LE				1
<i>Coluber bilineatus</i>	Sonoran Whipsnake					2
<i>Columbina inca</i>	Inca Dove					2
<i>Contopus cooperi</i>	Olive-sided Flycatcher	SC				2
<i>Contopus sordidulus</i>	Western Wood-Pewee					2
<i>Corvus cryptoleucus</i>	Chihuahuan Raven					2
<i>Corynorhinus townsendii pallescens</i>	Pale Townsend's Big-eared Bat	SC	S	S		1
<i>Coryphantha recurvata</i>	Santa Cruz Beehive Cactus		S		HS	
<i>Coryphantha robbinsorum</i>	Cochise Pincushion Cactus	LT			HS	
<i>Coryphantha scheeri</i> var. <i>robustispina</i>	Pima Pineapple Cactus	LE		S		
<i>Coryphantha scheeri</i> var. <i>robustispina</i>	Pima Pineapple Cactus	LE		S	HS	
<i>Coursetia glabella</i>	Smooth Baby-bonnets	SC	S			
<i>Craugastor augusti cactorum</i>	Western Barking Frog		S			2
<i>Crotalus cerberus</i>	Arizona Black Rattlesnake					2
<i>Crotalus lepidus klauberi</i>	Banded Rock Rattlesnake					1
<i>Crotalus lepidus</i>	Rock Rattlesnake					1

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Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Crotalus pricei</i>	Twin-spotted Rattlesnake		S			1
<i>Crotalus pyrrhus</i>	Speckled Rattlesnake					2
<i>Crotalus tigris</i>	Tiger Rattlesnake					2
<i>Crotalus willardi obscurus</i>	New Mexico Ridge-nosed Rattlesnake	LT		S		1
<i>Crotalus willardi willardi</i>	Arizona Ridge-nosed Rattlesnake		S			1
<i>Crotaphytus nebrius</i>	Sonoran Collared Lizard					2
<i>Cryptantha ganderi</i>	Gander's Cryptantha		SC			
<i>Cyanocitta stelleri</i>	Steller's Jay					2
<i>Cynanthus latirostris</i>	Broad-billed Hummingbird		S			2
<i>Cynomys ludovicianus</i>	Black-tailed Prairie Dog	CCA		S		1
<i>Cyprinella formosa</i>	Beautiful Shiner	LT				1
<i>Cyprinodon eremus</i>	Quitobaquito Pupfish	LE				1
<i>Cyprinodon macularius</i>	Desert Pupfish	LE		S		1
<i>Cyripedium parviflorum var. pubescens</i>	Yellow Lady's-slipper		S		HS	
<i>Dalea tentaculoides</i>	Gentry's Indigo Bush	SC	S	S	HS	
<i>Danaus plexippus</i>	Monarch	C		S		
<i>Dendrocygna autumnalis</i>	Black-bellied Whistling-Duck					2
<i>Desmodium metcalfei</i>	Metcalfe's Tick-trefoil		S			
<i>Dichromanthus michuacanus</i>	Michoacan Ladies'-tresses					SR
<i>Draba standleyi</i>	Standley Whitlow-grass		SC			
<i>Dryobates arizonae</i>	Arizona Woodpecker		S			2
<i>Dumetella carolinensis</i>	Gray Catbird		S			3
<i>Echinocereus arizonicus ssp. arizonicus</i>	Arizona Hedgehog Cactus	LE		S	HS	
<i>Echinocereus arizonicus ssp. nigrihorridispinus</i>	Black-spined Hedgehog Cactus					SR
<i>Echinocereus ledingii</i>	Pinaleno Hedgehog Cactus					SR
<i>Echinocereus nicholii</i>	Nichol's Hedgehog Cactus					SR
<i>Echinocereus pseudopectinatus</i>	Devil-thorn					SR
<i>Echinocereus santaritensis</i>	Santa Rita Hedgehog Cactus					SR
<i>Echinomastus erectocentrus var. acunensis</i>	Acuna Cactus	LE		S	HS	
<i>Echinomastus erectocentrus var. erectocentrus</i>	Needle-spined Pineapple Cactus	SC				SR
<i>Echinomastus intertextus</i>	White Fishhook Cactus					SR
<i>Elgaria kingii</i>	Madrean Alligator Lizard					2
<i>Empidonax fulvifrons pygmaeus</i>	Northern Buff-breasted Flycatcher	SC	S			2
<i>Empidonax traillii extimus</i>	Southwestern Willow Flycatcher	LE		S		1
<i>Empidonax wrightii</i>	Gray Flycatcher					2

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<i>Epithelantha micromeris</i>	Button Cactus					SR
<i>Eremophila alpestris</i>	Horned Lark					2
<i>Erigeron anchana</i>	Sierra Ancha Fleabane	SC	S			
<i>Erigeron arisolius</i>	Arid Throne Fleabane		S			
<i>Erigeron heliographis</i>	Pinalenos Fleabane	SC	S			
<i>Erigeron kuschei</i>	Chiricahua Fleabane	SC	S			SR
<i>Erigeron lemmonii</i>	Lemmon Fleabane	SC				HS
<i>Erigeron piscaticus</i>	Fish Creek Fleabane	SC	S	S		SR
<i>Eriogonum capillare</i>	San Carlos Wild-buckwheat	SC				SR
<i>Eryngium sparganophyllum</i>	Arizona Eryngo	LE		S		
<i>Escobaria orcuttii</i>	Orcutt's Foxtail Cactus					SR
<i>Eugenes fulgens</i>	Rivoli's Hummingbird					2
<i>Eumops perotis californicus</i>	Greater Western Bonneted Bat	SC		S		2
<i>Eumops underwoodi</i>	Underwood's Bonneted Bat	SC				2
<i>Euphagus cyanocephalus</i>	Brewer's Blackbird					2
<i>Euphorbia macropus</i>	Woodland Spurge	SC				SR
<i>Euptilotis neoxenus</i>	Eared Quetzal		S			
<i>Falco mexicanus</i>	Prairie Falcon					2
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	SC	S	S		1
<i>Falco sparverius</i>	American Kestrel					2
<i>Ferocactus cylindraceus</i>	Desert Barrel Cactus					SR
<i>Ferocactus emoryi</i>	Emory's Barrel-cactus					SR
<i>Fremontodendron californicum</i>	Flannel Bush			S		SR
<i>Gastrocopta dalliana</i>	Shortneck Snaggletooth	CCA				1
<i>Gastrophryne mazatlanensis</i>	Sinoloan Narrow-mouthed Toad			S		2
<i>Gentianella wislizeni</i>	Wislizeni Gentian	SC	S			SR
<i>Geothlypis tolmiei</i>	MacGillivray's Warbler					2
<i>Gila ditaenia</i>	Sonora Chub	LT				1
<i>Gila intermedia</i>	Gila Chub	LE		S		1
<i>Gila purpurea</i>	Yaqui Chub	LE				1
<i>Gila robusta</i>	Roundtail Chub	SC	S	S		1
<i>Glaucidium brasilianum cactorum</i>	Cactus Ferruginous Pygmy-owl	LT	S	S		1
<i>Glaucidium gnoma californicum</i>	Northern Pygmy-owl					2
<i>Glaucidium gnoma gnoma</i>	Mountain Pygmy-owl					2
<i>Gopherus morafkai</i>	Sonoran Desert Tortoise	CCA	S	S		1
<i>Graptopetalum bartramii</i>	Bartram Stonecrop	LT	S	S		SR
<i>Gyalopion quadrangulare</i>	Thornscrub Hook-nosed Snake		S			2
<i>Haemorhous cassinii</i>	Cassin's Finch					2
<i>Haliaeetus leucocephalus</i> (wintering pop.)	Bald Eagle - Winter Population	SC, BGA	S	S		

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<i>Haliaeetus leucocephalus</i>	Bald Eagle	SC, BGA	S	S		1
<i>Helianthus niveus</i> ssp. <i>tephrodes</i>	Algodones Sunflower	SC				
<i>Heloderma suspectum</i>	Gila Monster					1
<i>Heterotheca rutteri</i>	Huachuca Golden Aster	SC	S	S		
<i>Heuchera eastwoodiae</i>	Senator Mine Alumroot		S			
<i>Heuchera glomerulata</i>	Chiricahua Mountain Alumroot		S			
<i>Hexalectris arizonica</i>	Arizona Crested Coral-root		S		SR	
<i>Hexalectris colemanii</i>	Coleman's coral-root	SC	S		SR	
<i>Hexalectris warnockii</i>	Texas Purple Spike	SC	S	S	HS	
<i>Hieracium abscissum</i>	Rusby's Hawkweed		S			
<i>Hieracium pringlei</i>	Pringle Hawkweed	SC				
<i>Hyla wrightorum</i> (Huachuca/Canelo Hills Pop.)	See: <i>Hyla wrightorum</i>	SC	S			1
<i>Hyla wrightorum</i>	Arizona Treefrog					3
<i>Hypoxis mexicana</i>	Yellow Star Grass				SR	
<i>Hypsiglena</i> sp. nov.	Hooded Nightsnake					2
<i>Ictalurus pricei</i>	Yaqui Catfish	LT				1
<i>Icterus bullockii</i>	Bullock's Oriole					2
<i>Icterus cucullatus</i>	Hooded Oriole					2
<i>Icterus parisorum</i>	Scott's Oriole					2
<i>Ictinia mississippiensis</i>	Mississippi Kite					2
<i>Idionycteris phyllotis</i>	Allen's Lappet-browed Bat	SC	S	S		2
<i>Incius alvarius</i>	Sonoran Desert Toad					2
<i>Junco phaeonotus</i>	Yellow-eyed Junco		S			2
<i>Kinosternon arizonense</i>	Arizona Mud Turtle					2
<i>Kinosternon flavescens</i>	Yellow Mud Turtle					2
<i>Kinosternon sonoriense longifemorale</i>	Sonoyta Mud Turtle	LE				1
<i>Kinosternon sonoriense sonoriense</i>	Desert Mud Turtle			S		2
<i>Lampornis clemenciae</i>	Blue-throated Mountain-gem					2
<i>Lampropeltis gentilis</i>	Western Milksnake					1
<i>Lampropeltis nigrita</i>	Mexican Black Kingsnake					
<i>Lanius ludovicianus</i>	Loggerhead Shrike	SC				2
<i>Lasiurus cinereus</i>	Hoary Bat					2
<i>Lasiurus frantzii</i>	Desert Red Bat		S			2
<i>Lasiurus xanthinus</i>	Western Yellow Bat		S			2
<i>Leopardus pardalis</i>	Ocelot	LE		S		1
<i>Leptonycteris nivalis</i>	Mexican Long-nosed Bat	LE				
<i>Leptonycteris yerbabuena</i>	Lesser Long-nosed Bat	SC		S		1

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Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
<i>Lepus alleni</i>	Antelope Jackrabbit					2
<i>Lichanura trivirgata</i>	Three-Lined Boa	SC				2
<i>Lilaeopsis schaffneriana</i> ssp. <i>recurva</i>	Huachuca Water-umbel	LE		S	HS	
<i>Lilium parryi</i>	Lemon Lily	SC	S		SR	
<i>Limosella pubiflora</i>	Chiricahua Mudwort	SC	S			
<i>Lobelia fenestralis</i>	Leafy Lobelia				SR	
<i>Lobelia laxiflora</i>	Mexican Lobelia				SR	
<i>Lophocereus schottii</i>	Senita				SR	
<i>Lotus alamosanus</i>	Sonoran Bird's-foot Trefoil		S			
<i>Lupinus huachucanus</i>	Huachuca Mountain Lupine		S			
<i>Lupinus lemmonii</i>	Lemmon's Lupine		S			
<i>Mabrya acerifolia</i>	Mapleleaf False Snapdragon		S			
<i>Macroptilium supinum</i>	Supine Bean	SC	S		SR	
<i>Macrotus californicus</i>	California Leaf-nosed Bat	SC		S		2
<i>Malaxis abieticola</i>	Slender-flowered Malaxis				SR	
<i>Malaxis corymbosa</i>	Madrean Adder's Mouth				SR	
<i>Malaxis porphyrea</i>	Purple Adder's Mouth				SR	
<i>Mammillaria heyderi</i> var. <i>bullingtoniana</i>	Cream Cactus				SR	
<i>Mammillaria viridiflora</i>	Varied Fishhook Cactus				SR	
<i>Mammillaria wrightii</i> var. <i>wilcoxii</i>	Wilcox Fishhook Cactus				SR	
<i>Manihot davisiae</i>	Arizona Manihot		S			
<i>Meda fulgida</i>	Spikedace	LE		S		1
<i>Megascops kennicottii</i>	Western Screech-owl					2
<i>Megascops trichopsis</i>	Whiskered Screech-owl		S			2
<i>Melanerpes uropygialis</i>	Gila Woodpecker					2
<i>Melospiza lincolni</i>	Lincoln's Sparrow					2
<i>Melospiza aberti</i>	Abert's Towhee		S			2
<i>Melospiza fusca</i>	Canyon Towhee					2
<i>Metastelma mexicanum</i>	Wiggins Milkweed Vine	SC	S			
<i>Microtus longicaudus leucophaeus</i>	White-bellied Long-tailed Vole		S			2
<i>Micruroides euryxanthus</i>	Sonoran Coralsnake					2
<i>Muhlenbergia elongata</i>	Sycamore Muhly		S			
<i>Muhlenbergia palmeri</i>	Palmer's Muhly		S			
<i>Myadestes townsendi</i>	Townsend's Solitaire					2
<i>Myiarchus tuberculifer</i>	Dusky-capped Flycatcher					2
<i>Myiodynastes luteiventris</i>	Sulphur-bellied Flycatcher		S			2
<i>Myotis auriculus</i>	Southwestern Myotis					2
<i>Myotis ciliolabrum</i>	Western Small-footed Myotis	SC				



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Myotis occultus	Arizona Myotis	SC		S		
Myotis thysanodes	Fringed Myotis	SC				2
Myotis velifer	Cave Myotis	SC		S		2
Myotis volans	Long-legged Myotis	SC				
Myotis yumanensis	Yuma Myotis	SC				2
Naesiotes christenseni	Santa Rita Rabdotus					2
Notiosorex cockrumi	Cockrum's Desert Shrew					2
Nyctinomops femorosaccus	Pocketed Free-tailed Bat					2
Nyctinomops macrotis	Big Free-tailed Bat	SC				2
Oncorhynchus apache	Apache Trout	LT,PD L				1
Oncorhynchus gilae	Gila Trout	LT				1
Opuntia versicolor	Stag-horn Cholla				SR	
Oreohelix concentrata	Huachuca Mountainsnail					2
Oreohelix grahamensis	Pinaleno Mountainsnail	CCA	S			1
Oreoscoptes montanus	Sage Thrasher					2
Oxybelis aeneus	Brown Vinesnake		S			2
Pachyramphus aglaiae	Rose-throated Becard		S			2
Packera neomexicana var. toumeyii	Toumey Groundsel		S			
Panthera onca	Jaguar	LE		S		1
Parabuteo unicinctus	Harris's Hawk					2
Paspalum virletii	Virlet Paspalum		S			
Passerculus sandwichensis	Savannah Sparrow					2
Passiflora arizonica	Arizona Passionflower		S			
Patagioenas fasciata	Band-tailed Pigeon					2
Pectis imberbis	Beardless Chinchweed	LE	S			
Pediomelum pentaphyllum	Chihuahua Scurfpea	SC	S	S		
Peniocereus greggii var. greggii	Night-blooming Cereus	SC				SR
Peniocereus striatus	Dahlia Rooted Cereus					SR
Pennellia tricornuta	Chiricahua Rock Cress		S			
Penstemon discolor	Catalina Beardtongue	SC	S		HS	
Peritoma multicaulis	Slender Spiderflower	SC				SR
Perityle ajoensis	Ajo Rock Daisy					SR
Perityle cochisensis	Chiricahua Rock Daisy		S			SR
Perognathus amplus	Arizona Pocket Mouse					2
Peromyscus merriami	Merriam's Deermouse		S			3
Peromyscus nasutus	Northern Rock Deermouse					2
Peucaea botterii arizonae	Arizona Botter's Sparrow			S		2
Peucaea carpalis	Rufous-winged Sparrow					2
Phemeranthus humilis	Pinos Altos Flameflower	SC	S			SR

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Phemeranthus marginatus	Tepec Flameflower	SC	S			SR
Phrynosoma cornutum	Texas Horned Lizard	SC				
Phrynosoma goodei	Goode's Horned Lizard					2
Phrynosoma solare	Regal Horned Lizard					2
Phyllorhynchus browni	Saddled Leaf-nosed Snake					2
Pinicola enucleator	Pine Grosbeak					2
Platanthera aquilonis	Northern Green Orchid					SR
Platanthera limosa	Thurber's Bog Orchid					SR
Platanthera purpurascens	Purple-petal Bog Orchid					SR
Plestiodon callicephalus	Mountain Skink			S		2
Poecile gambeli	Mountain Chickadee					2
Poecile sclateri	Mexican Chickadee					2
Poecilopsis occidentalis	Gila Topminnow	LE,UR		S		1
Poecilopsis occidentalis	occidentalis					
Poecilopsis occidentalis sonoriensis	Yaqui Topminnow	LE				1
Polemonium pauciflorum ssp. hincleyi	Hincley's Ladder	SC	S			
Poliophtia nigriceps	Black-capped Gnatcatcher					2
Poocetes gramineus	Vesper Sparrow					2
Potentilla albiflora	Pinaleno Cinquefoil			S		
Potentilla rhyolitica var. chiricahuensis	Chiricahua Cinquefoil			S		
Potentilla rhyolitica var. rhyolitica	Huachuca Cinquefoil			S		
Psilactis gentryi	Mexican Tansyaster			S		
Psiloscoops flammeolus	Fammulated Owl					2
Psilotum nudum	Whisk Fern			S		HS
Pyrgulopsis arizonae	Bylas Springsnail	SC		S		1
Pyrgulopsis bernardina	San Bernardino Springsnail	LT				1
Pyrgulopsis thompsoni	Huachuca Springsnail	CCA	S			1
Radiocentrum clappi	Cave Creek Mountainsnail					2
Rallus obsoletus yumanensis	Yuma Ridgway's Rail	LE		S		1
Ramosomyia violiceps	Violet-crowned Hummingbird			S		2
Rana blairi	Plains Leopard Frog				S	1
Rana chiricahuensis	Chiricahua Leopard Frog	LT			S	1
Rana tarahumarae	Tarahumara Frog	SC	S			1
Rana yavapaiensis	Lowland Leopard Frog	SC	S	S		1
Rhinichthys osculus	Speckled Dace	SC			S	
Rhynchophanes mccownii	McCown's Longspur					2
Rhynchopsitta pachyrhyncha	Thick-billed Parrot					1
Rumex orthoneurus	Blumer's Dock	SC	S			HS

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Salix arizonica	Arizona Willow	CCA	S		HS	
Salix bebbiana	Bebb's Willow		S			
Salvia amissa	Aravaipa Sage	SC	S	S		
Samolus vagans	Chiricahua Mountain Brookweed		S			
Sauromalus ater	Common Chuckwalla	SC				
Sceloporus jarrovi	Yarrow's Spiny Lizard					2
Sceloporus slevini	Slevin's Bunchgrass Lizard		S	S		2
Sceloporus virgatus	Striped Plateau Lizard					2
Schiedeella arizonica	Fallen Ladies'-tresses					SR
Sciurus arizonensis	Arizona Gray Squirrel					2
Sciurus nayaritensis chiricahuae	Chiricahua Fox Squirrel	SC	S			2
Selasphorus platycercus	Broad-tailed Hummingbird					2
Senecio multidentatus var. huachucae	Huachuca Groundsel		S		HS	
Senticolis triaspis intermedia	Northern Green Ratsnake		S			2
Senticolis triaspis	Green Ratsnake		S			2
Setophaga graciae	Grace's Warbler					2
Setophaga nigrescens	Black-throated Gray Warbler					2
Sialia sialis fulva	Azure Bluebird					2
Sigmodon arizonae cienegae	Arizona Cotton Rat					2
Sigmodon hispidus	Hispid Cotton Rat					2
Sigmodon ochrognathus	Yellow-nosed Cotton Rat	SC				3
Sistrurus tergeminus edwardsii	Desert Massasauga			S		
Sisyrinchium cernuum	Nodding Blue-eyed Grass		S			
Smilisca fodiens	Lowland Burrowing Treefrog			S		2
Sonorella baboquivariensis	Baboquivari Talussnail					2
Sonorella christenseni	Clark Peak Talussnail	CCA	S			1
Sonorella galiurensis	Galiuro Talussnail					2
Sonorella grahamensis	Pinaleno Talussnail	CCA	S			1
Sonorella imitator	Mimic Talussnail	CCA	S			1
Sonorella macrophallus	Wet Canyon Talussnail	CCA	S			1
Sonorella pedregosensis	Leslie Canyon Talussnail					2
Sonorella virilis	Chiricahua Talussnail					2
Sorex arizonae	Arizona Shrew	SC	S			2
Sorex navigator	Western Water Shrew		S			2
Spiranthes delitescens	Canelo Hills Ladies'-tresses	LE			HS	
Spizella breweri	Brewer's Sparrow					2
Stellaria porsildii	Porsild's Starwort		S			
Stenocereus thurberi	Organ Pipe Cactus					SR
Stephanomeria exigua ssp. exigua	Small Wirelettuce			S		

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Stevia lemmonii	Lemmon's Stevia		S			
Streptopus amplexifolius	White Mandarin Twisted Stalk					SR
Strix occidentalis lucida	Mexican Spotted Owl	LT		S		1
Tadarida brasiliensis	Brazilian Free-tailed Bat					2
Tamiasciurus fremonti grahamensis	Mt Graham Red Squirrel	LE				1
Tantilla wilcoxi	Chihuahuan Black-headed Snake		S			2
Tantilla yaquia	Yaqui Black-headed Snake		S			2
Terrapene ornata luteola	Desert Box Turtle			S		1
Terrapene ornata	Ornate Box Turtle			S		1
Thamnophis eques megalops	Northern Mexican Gartersnake	LT	S	S		1
Thamnophis rufipunctatus	Narrow-headed Gartersnake	LT	S	S		1
Thelypteris puberula var. sonorensis	Aravaipa Woodfern		S	S		
Thomomys bottae mearnsi	Mearns' Southern Pocket Gopher	SC				
Thomomys umbrinus intermedius	Southern Pocket Gopher					2
Tiaroga cobitis	Loach Minnow	LE		S		1
Toxostoma bendirei	Bendire's Thrasher					2
Toxostoma lecontei	LeConte's Thrasher			S		2
Tragia laciniata	Sonoita Noseburn		S			
Triteleopsis palmeri	Blue Sand Lily			S	SR	
Trogon elegans	Elegant Trogon		S			2
Tryonia gilae	Gila Tryonia	SC		S		1
Tryonia quitobaquiae	Quitobaquito Tryonia	PE				1
Tuberochernes ubicki	A Cave Obligate Pseudoscorpion		S			
Tyrannus crassirostris	Thick-billed Kingbird		S			2
Uma rufopunctata	Yuman Desert Fringe-toed Lizard	SC		S		2
Uma thurmanae	Mohawk Dunes Fringe-toad Lizard			S		2
Vauquelinia californica ssp. pauciflora	Limestone Arizona Rosewood	SC				SR
Vauquelinia californica ssp. sonorensis	Arizona Sonoran Rosewood			S		
Viola umbraticola	Ponderosa Violet		S			
Vireo vicinior	Gray Vireo		S			2
Xantusia bezyi	Bezy's Night Lizard		S			2
Zigadenus virescens	Green Death Camas					SR
Zonotrichia leucophrys oriantha	Mountain West White-crowned Sparrow					2

Note: Status code definitions can be found at <https://www.azgfd.com/wildlife-conservation/on-the-ground-conservation/state-wildlife-action-plan/state-wildlife-action-plan-status-definitions/>.

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Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Aguila Mtns - Crater Range	Maricopa County Wildlife Movement Area - Landscape					
Aguilas Mtns - Granite Mtns	Maricopa County Wildlife Movement Area - Landscape					
Ajo Range to Mesquite Mountains	Pima County Wildlife Movement Area - Landscape					
Ajo Range/Barajita Valley Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Altar Wash	Pima County Wildlife Movement Area - Riparian/Wash					
Alvarez/Artesa Mountains/Vamori Valley Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Antelope Tank (Babocomari R)	Conservation Opportunity Area					
Appleton-Whittell Research Ranch (NAS) IBA	Important Bird Area					
Appleton-Whittell and Las Cienagas	Conservation Opportunity Area					
Aravaipa Canyon Ecosystem	Conservation Opportunity Area					
Aravaipa Creek (Lower Aravaipa Creek)	Conservation Opportunity Area					
Arivaca Cienaga/Arivaca Creek IBA	Important Bird Area					
Arivaca/Cedar Creek	Pima County Wildlife Movement Area - Riparian/Wash					
Arnett Creek (Upper Queen Creek)	Conservation Opportunity Area					
Ash Creek (Salt River Draw-Salt River)	Conservation Opportunity Area					
Atascosa Highlands IBA	Important Bird Area					
Atascosa Highlands	Conservation Opportunity Area					
Baboquivari Mountains through Brown Canyon/Las Guijas Wash to Sierrita Mountains	Pima County Wildlife Movement Area - Landscape					
Baboquivari Mountains through Fresno Wash to Sierrita Mountains	Pima County Wildlife Movement Area - Landscape					
Baboquivari/Coyote/Quinlan Mountains Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Bald Hill Tank (Babocomari R)	Conservation Opportunity Area					
Batamote/Pozo Redondo/Souceda/Sikort Chuapo Mountains Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Bates Mountain/Puerto Blanco Mountains to Ajo Range across State Route 85	Pima County Wildlife Movement Area - Landscape					
Bates Well	Pima County Wildlife Movement Area - Diffuse					

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Bear Creek (Headwaters Las Nutrias)	Conservation Opportunity Area					
Big Tank	Conservation Opportunity Area					
Boghole Ciénega	Conservation Opportunity Area					
Bonita Creek	Conservation Opportunity Area					
Boyce Thompson Arboretum (Upper Queen Creek)	Conservation Opportunity Area					
Boyce Thompson Arboretum/Arnett-Queen Creeks IBA	Important Bird Area					
Brown Wash	Pima County Wildlife Movement Area - Riparian/Wash					
Buenos Aires NWR and Altar Valley	Conservation Opportunity Area					
Buenos Aires National Wildlife Refuge Wildland Block	Pima County Wildlife Movement Area - Diffuse					
CH for Coccozyus americanus	Yellow-billed Cuckoo Designated Critical Habitat					
CH for Cyprinodon eremus	Quitobaquito Desert Pupfish Designated Critical Habitat					
CH for Empidonax traillii extimus	Southwestern Willow Flycatcher Designated Critical Habitat					
CH for Eryngium sparganophyllum	Arizona Eryngo Designated Critical Habitat					
CH for Gila intermedia	Gila Chub Designated Critical Habitat					
CH for Kinostemon sonoriense longifemorale	Sonoyta Mud Turtle Designated Critical Habitat					
CH for Lilaepsis schaffneriana ssp. recurva	Huachuca Water Umbel Designated Critical Habitat					
CH for Meda fulgida	Spikedace Designated Critical Habitat					
CH for Panthera onca	Jaguar Designated Critical Habitat					
CH for Rana chiricahuensis	Chiricahua Leopard Frog Designated Critical Habitat					
CH for Tamiasciurus fremonti grahamensis	Mt Graham Red Squirrel Designated Critical Habitat					
CH for Thamnophis eques megalops	Northern Mexican gartersnake Designated Critical Habitat					
CH for Tiaroga cobitis	Loach Minnow Designated Critical Habitat					
CH for Xyrauchen texanus	Razorback Sucker Designated Critical Habitat					
Campaign Creek (Pinto Creek)	Conservation Opportunity Area					
Canyon Passes between Superior and Globe	Pinal County Wildlife Movement Area - Landscape					
Cave Canyon	Conservation Opportunity Area					

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Cave Creek Drainage Streams (Cave Creek-San Simon River)	Conservation Opportunity Area					
Charlebois Spring (Salt River-Apache, Canyon, and Saguaro Lake)	Conservation Opportunity Area					
Child's Valley	Pima County Wildlife Movement Area - Diffuse					
Chiracahua Mountains	Conservation Opportunity Area					
Chiracahua Mountains IBA	Important Bird Area					
Ciénega Creek - Headwaters to I-10	Conservation Opportunity Area					
Cold Springs (Black Rock Wash-Gila River)	Conservation Opportunity Area					
Comobabi Mountains Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Comobabi Mountains to Baboquivari Valley	Pima County Wildlife Movement Area - Landscape					
Coon Creek (Salt River-Theodore Roosevelt Lake)	Conservation Opportunity Area					
Cott Tank Drainage	Conservation Opportunity Area					
Cottonwood Spring	Conservation Opportunity Area					
Coyote-Baboquivari	Conservation Opportunity Area					
Crater Range - Childs Mountain	Maricopa County Wildlife Movement Area - Landscape					
Crater Range - Growler Mountains	Maricopa County Wildlife Movement Area - Landscape					
Crater Range - Saucedo Mountains	Maricopa County Wildlife Movement Area - Landscape					
Crater Range/Childs/Little Ajo Mountains to Batamote/Saucedo Mountains	Pima County Wildlife Movement Area - Landscape					
Dale's Tank	Conservation Opportunity Area					
Deer Creek - Aravaipa (Lower Aravaipa Creek)	Conservation Opportunity Area					
Devil's Canyon	Pinal County Wildlife Movement Area - Diffuse					
Dragoon Mountains	Conservation Opportunity Area					
El Capitan - Aravaipa Canyon	Pinal County Wildlife Movement Area - Landscape					
Esperanza/Demetrie Wash	Pima County Wildlife Movement Area - Riparian/Wash					
Fish Creek (Salt River-Apache, Canyon, and Saguaro Lake)	Conservation Opportunity Area					
Florence Military Reservation	Pinal County Wildlife Movement Area - Landscape					

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Freeman Spring (Babocomari R)	Conservation Opportunity Area					
Fresno Spring	Conservation Opportunity Area					
Galiuro - Pinaleno - Dos Cabezas Linkage Design	Wildlife Connectivity					
Galiuro Mountains - Santa Catalina Mountains	Pinal County Wildlife Movement Area - Landscape					
Galiuro Mountains - Tortilla Mountains	Pinal County Wildlife Movement Area - Landscape					
Galiuro-Winchester	Conservation Opportunity Area					
Gardner Canyon	Conservation Opportunity Area					
Gardner Canyon	Pima County Wildlife Movement Area - Riparian/Wash					
Gardner Canyon/State Route 83 Pronghorn Linkage	Pima County Wildlife Movement Area - Landscape					
Gila Box	Conservation Opportunity Area					
Gila River - San Pedro River	Pinal County Wildlife Movement Area - Riparian/Wash					
Gila River to Lake St. Claire	Pinal County Wildlife Movement Area - Riparian/Wash					
Gila River	Conservation Opportunity Area					
Gila River	Pinal County Wildlife Movement Area - Riparian/Wash					
Growler Valley	Pima County Wildlife Movement Area - Diffuse					
Gu Vo Hills/Mesquite Mountains/La Quituni Valley Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Hess Canyon (Salt River Draw-Salt River)	Conservation Opportunity Area					
Home Ranch Tank (Upper Aravaipa Creek)	Conservation Opportunity Area					
Horse Tank	Conservation Opportunity Area					
Huachuca Mountains IBA	Important Bird Area					
Huachuca Mountains	Conservation Opportunity Area					
Important Connectivity Zone	Wildlife Connectivity					
Indian Allotments	Indian Allotments					
Ironwood National Monument - Vekol Mountains	Pinal County Wildlife Movement Area - Landscape					
Joaquin Creek (Headwaters Las Nutrias)	Conservation Opportunity Area					
Kingfisher Pond (SPRNCA)	Conservation Opportunity Area					
Kitt Peak Linkage Design	Wildlife Connectivity					
Kitt Peak State Route 86 (RTA Planned/Funded Underpass)	Pima County Wildlife Crossing Area					

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Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Kitt Peak: Comobabi Mountains to Baboquivari/Coyote/Quinlan Mountains	Pima County Wildlife Movement Area - Landscape					
La Barge Creek (Salt River-Apache, Canyon, and Saguaro Lake)	Conservation Opportunity Area					
Lampshire Canyon-Oak Grove Flat	Conservation Opportunity Area					
Las Cienegas NCA IBA	Important Bird Area					
Las Cienegas National Conservation Area to Audubon Appleton-Whittell Research Ranch	Pima County Wildlife Movement Area - Landscape					
Leslie Canyon NWR	Conservation Opportunity Area					
Lodge Pond	Conservation Opportunity Area					
Lone Mountain Canyon (Headwaters Las Nutrias)	Conservation Opportunity Area					
Lower Guesthouse Pond	Conservation Opportunity Area					
Lower San Pedro Preserve-East Pond (Dodson Wash - San Pedro R)	Conservation Opportunity Area					
Lower San Pedro Preserve-West Pond (Dodson Wash - San Pedro R)	Conservation Opportunity Area					
Lower San Pedro River IBA	Important Bird Area					
Lower San Pedro River	Conservation Opportunity Area					
Marley Ranch to Canoa Ranch	Pima County Wildlife Movement Area - Landscape					
Mescal Warm Spring (Dripping Springs Wash-Gila River)	Conservation Opportunity Area					
Mexico - Tumacacori - Baboquivari Connectivity Assessment	Wildlife Connectivity					
Mineral Creek (Mineral Creek-Gila River)	Conservation Opportunity Area					
Mineral Mountains	Pinal County Wildlife Movement Area - Diffuse					
Mohawks	Conservation Opportunity Area					
Monkey Spring	Conservation Opportunity Area					
Mud Spring (Headwaters Las Nutrias)	Conservation Opportunity Area					
Mule Mountains	Conservation Opportunity Area					
Murray Spring (SPRNCA)	Conservation Opportunity Area					
N/A	Apache/Navajo Counties Wildlife Movement Area - Diffuse					
O'Donnell Canyon (Babocomari R)	Conservation Opportunity Area					

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Special Areas Documented that Intersect with Project Footprint as Drawn

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Organ Pipe Cactus National Monument/State Route 85 Wash Crossings	Pima County Wildlife Crossing Area					
Patagonia - Santa Rita Linkage Design	Wildlife Connectivity					
Patagonia Mountains IBA	Important Bird Area					
Patagonia Mountains	Conservation Opportunity Area					
Patagonia Sonoita Creek TNC Preserve IBA	Important Bird Area					
Peck Canyon	Conservation Opportunity Area					
Peloncillo Mountains South	Conservation Opportunity Area					
Peterson Ranch Pond	Conservation Opportunity Area					
Pinal Creek (Pinal Creek)	Conservation Opportunity Area					
Pinalaño Mountains IBA	Important Bird Area					
Pinalaño Mountains Streams (Cottonwood Wash, and Stockton Wash-Gila River)	Conservation Opportunity Area					
Pinalaño Mountains	Conservation Opportunity Area					
Pinto Creek (Pinto Creek)	Conservation Opportunity Area					
Porter Springs Wash and Cold Springs	Conservation Opportunity Area					
Post Canyon (Babocomari R)	Conservation Opportunity Area					
Pozo Redondo Mountains to Ajo Range	Pima County Wildlife Movement Area - Landscape					
Pozo Verde Mountains to Mexico	Pima County Wildlife Movement Area - Landscape					
Queen Creek - Gila River Indian Community	Maricopa County Wildlife Movement Area - Riparian/Wash					
Queen Creek - Gila River Indian Community	Pinal County Wildlife Movement Area - Riparian/Wash					
Queen Creek	Conservation Opportunity Area					
Queen Valley - Middle Gila/Mineral Mountains	Pinal County Wildlife Movement Area - Landscape					
Quijotoa Mountains to Alvarez Mountains	Pima County Wildlife Movement Area - Landscape					
Quijotoa Mountains to Brownell Mountains	Pima County Wildlife Movement Area - Landscape					
Quijotoa Mountains/Quijotoa Valley Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Quitobaquito	Conservation Opportunity Area					
Ray Copper Mine	Pinal County Wildlife Movement Area - Diffuse					
Reavis Creek	Conservation Opportunity Area					

492nd Special Operations Wing Beddown at Davis-Monthan Air Force Base  
Environmental Impact Statement

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Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Redrock Canyon	Conservation Opportunity Area					
Rincon - Santa Rita - Whetstone Linkage Design	Wildlife Connectivity					
Riparian Area	Riparian Area					
San Bernardino National Wildlife Refuge	Conservation Opportunity Area					
San Carlos Indian Reservation	San Carlos Indian Reservation					
San Cristobal Valley/Antelope Hills	Pima County Wildlife Movement Area - Diffuse					
San Luis Mountains/Coches Ridge to Mexico	Pima County Wildlife Movement Area - Landscape					
San Pedro Riparian National Conservation Area IBA	Important Bird Area					
San Pedro Riparian National Conservation Area	Conservation Opportunity Area					
San Pedro River-Lower Reach (Near San Manuel-Gila R Conf.) (Tucson Wash, Dodson Wash-San Pedro R)	Conservation Opportunity Area					
San Pedro River-Upper Reach (International Border-Near St. David, Montezuma Canyon, Banning Creek, Walnut Gulch, Clifford Wash-San Pedro R)	Conservation Opportunity Area					
San Rafael Grasslands IBA	Important Bird Area					
San Rafael Grasslands	Conservation Opportunity Area					
Santa Catalina/Rincon - Galiuro Connectivity Assessment	Wildlife Connectivity					
Santa Cruz River Headwaters to International Border	Conservation Opportunity Area					
Santa Rita - Sierrita Linkage Design	Wildlife Connectivity					
Santa Rita - Tumacacori Linkage Design	Wildlife Connectivity					
Santa Rita Experimental Range/Coronado National Forest Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Santa Rita Mountains IBA	Important Bird Area					
Santa Rita Mountains	Conservation Opportunity Area					
Santa Teresa Wilderness	Conservation Opportunity Area					
Sauceda Mtns - Sand Tank Mtns	Maricopa County Wildlife Movement Area - Landscape					
Sells Valley to Artesa Mountains	Pima County Wildlife Movement Area - Landscape					

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Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Sells Valley to Comobabi Mountains	Pima County Wildlife Movement Area - Landscape					
Sells/Gu Oidak Valley Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Sentinel Plains	Maricopa County Wildlife Movement Area - Diffuse					
Sierra Blanca/Brownell Mountains/Window Valley Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Sierra Pinta/O'Neil Hills/Agua Dulce Mountains	Pima County Wildlife Movement Area - Diffuse					
Sierrita Mountains Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Sonoita Creek Headwaters to Patagonia Lake	Conservation Opportunity Area					
Sonoita Creek TNC Preserve	Conservation Opportunity Area					
Sonoran Desert Borderlands IBA	Important Bird Area					
Sonoran Desert Borderlands	Conservation Opportunity Area					
Sopori Wash	Pima County Wildlife Movement Area - Riparian/Wash					
State Route 286 East to State Route 286 West	Pima County Wildlife Movement Area - Landscape					
Superstition Mtns - Mazatzal Mtns	Maricopa County Wildlife Movement Area - Landscape					
Sycamore Spring (Headwaters Las Nutrias)	Conservation Opportunity Area					
Tabletop Mountains - Little Tabletop Mountains	Pinal County Wildlife Movement Area - Landscape					
Telegraph and Mescal Fires	Conservation Opportunity Area					
Ten Mile Wash	Maricopa County Wildlife Movement Area - Riparian/Wash					
Tohono Indian Reservation	Tohono Indian Reservation					
Tonto Forest West of Superior through Gonzales Pass	Pinal County Wildlife Movement Area - Landscape					
Tortilla Creek Drainage (Salt River-Apache, Canyon, and Saguaro Lake)	Conservation Opportunity Area					
Tortilla Mountains - Ripsey Wash - Donally Wash	Pinal County Wildlife Movement Area - Landscape					
Tortolita Mountains - Tortilla Mountains	Pinal County Wildlife Movement Area - Landscape					
Tumacacori/San Luis Mountains Wildland Block	Pima County Wildlife Movement Area - Diffuse					
Turkey Creek (Babocomari R)	Conservation Opportunity Area					

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**Special Areas Documented that Intersect with Project Footprint as Drawn**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Two Bar Ridge - Roosevelt Lake	Maricopa County Wildlife Movement Area - Landscape					
Upper Guesthouse Pond	Conservation Opportunity Area					
Upper Little Colorado River Watershed IBA	Important Bird Area					
Upper Little Colorado River Watershed	Conservation Opportunity Area					
Valley north and east of the San Tan Mountains	Pinal County Wildlife Movement Area - Landscape					
Vekol Valley - Rainbow Valley	Maricopa County Wildlife Movement Area - Diffuse					
West Fork Little Colorado River - fish barrier to headwaters	Conservation Opportunity Area					
West Fork Pinto Creek (Pinto Creek)	Conservation Opportunity Area					
West Turkey Creek (Turkey Creek)	Conservation Opportunity Area					
Whetstone Mountains to Las Cienegas National Conservation Area	Pima County Wildlife Movement Area - Landscape					
Whetstone Mountains	Conservation Opportunity Area					
White Hills - Saucedo Mtns	Maricopa County Wildlife Movement Area - Landscape					
White Mtn Apache Indian Reservation	White Mtn Apache Indian Reservation					
Whitewater Draw State Wildlife Area IBA	Important Bird Area					
Whitewater Draw State Wildlife Area	Conservation Opportunity Area					

Note: Status code definitions can be found at <https://www.azgfd.com/wildlife-conservation/on-the-ground-conservation/state-wildlife-action-plan/state-wildlife-action-plan-status-definitions/>.

**Species of Greatest Conservation Need Predicted that Intersect with Project Footprint as Drawn, based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Accipiter atricapillus	American Goshawk	SC	S	S		2
Aechmophorus clarkii	Clark's Grebe					2
Aechmophorus occidentalis	Western Grebe					2
Agosia chrysogaster	Longfin Dace	SC		S		2
Ambystoma mavortium stebbinsi	Sonoran Tiger Salamander	LE				1
Ammodramus savannarum ammolagus	Arizona grasshopper sparrow		S	S		2
Ammodramus savannarum perpallidus	Western Grasshopper Sparrow					2
Ammospermophilus harrisi	Harris' Antelope Squirrel					2

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Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Amphispiza quinquestriata	Five-striped Sparrow					2
Anaxyrus microscaphus	Arizona Toad	SC		S		2
Anaxyrus retiformis	Sonoran Green Toad			S		2
Anodonta californiensis	California Floater	SC	S			1
Anthus spragueii	Sprague's Pipit	SC				2
Antilocapra americana americana	American Pronghorn					2
Antilocapra americana sonoriensis	Sonoran Pronghorn	LE,XN		S		1
Antrostomus ridgwayi	Buff-collared Nightjar		S			2
Aquila chrysaetos	Golden Eagle			S		2
Artemisiospiza nevadensis	Sagebrush Sparrow					3
Ashmunella chiricahuana	Cave Creek Woodlandsnail					2
Ashmunella levettei	Huachuca Woodlandsnail	UR				2
Asio otus	Long-eared Owl					2
Aspidoscelis sonorae	Sonoran Spotted Whiptail					2
Aspidoscelis stictogrammus	Giant Spotted Whiptail	SC	S			2
Aspidoscelis xanthonotus	Red-backed Whiptail	SC	S			2
Athene cucularia hypugaea	Western Burrowing Owl	SC	S	S		2
Auriparus flaviceps	Verdin					2
Baeolophus ridgwayi	Juniper Titmouse					3
Botaurus lentiginosus	American Bittern					2
Buteo regalis	Ferruginous Hawk	SC		S		2
Buteo swainsoni	Swainson's Hawk					2
Buteogallus anthracinus	Common Black Hawk					2
Calcarius ornatus	Chestnut-collared Longspur					2
Callipepla squamata	Scaled Quail					2
Callospermophilus lateralis	Golden-mantled Ground Squirrel					2
Calypte costae	Costa's Hummingbird					2
Camptostoma ornatum	Mexican Stoneroller	SC	S			2
Camptostoma imberbe	Northern Beardless-Tyrannulet		S			2
Campylorhynchus brunneicapillus	Cactus Wren					2
Canis lupus baileyi	Mexican Wolf	LE,XN		S		1
Cardellina rubrifrons	Red-faced Warbler					2
Catharus ustulatus	Swainson's Thrush					2
Catostomus bernardini	Yaqui Sucker					2
Catostomus clarkii	Desert Sucker	SC	S	S		2
Catostomus discobolus	Bluehead Sucker	PS		S		2
Catostomus insignis	Sonora Sucker	SC	S	S		2
Catostomus latipinnis	Flannelmouth Sucker	CCA		S		2
Catostomus sp. 3	Little Colorado Sucker	CCA	S	S		2

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Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Chaetodipus baileyi	Bailey's Pocket Mouse					2
Charadrius montanus	Mountain Plover	SC				2
Charadrius nivosus nivosus	Western Snowy Plover					2
Chilomeniscus cinctus	Variable Sandsnake					2
Chionactis palarostris	Sonoran Shovel-nosed Snake					2
Choronycteris mexicana	Mexican Long-tongued Bat	SC	S	S		2
Chordeiles minor	Common Nighthawk					2
Cinclus mexicanus	American Dipper					2
Coccythraustes vespertinus	Evening Grosbeak					2
Coccyzus americanus	Yellow-billed Cuckoo (Western DPS)	LT	S	S		1
Colaptes chrysoides	Gilded Flicker			S		2
Colinus virginianus ridgwayi	Masked Bobwhite	LE				1
Coluber bilineatus	Sonoran Whipsnake					2
Columbina inca	Inca Dove					2
Contopus cooperi	Olive-sided Flycatcher	SC				2
Corvus cryptoleucus	Chihuahuan Raven					2
Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	SC	S	S		1
Craugastor augusti	Barking Frog					2
Crotalus cerberus	Arizona Black Rattlesnake					2
Crotalus lepidus	Rock Rattlesnake					1
Crotalus pricei	Twin-spotted Rattlesnake		S			1
Crotalus tigris	Tiger Rattlesnake					2
Crotalus willardi obscurus	New Mexico Ridge-nosed Rattlesnake	LT		S		1
Crotalus willardi willardi	Arizona Ridge-nosed Rattlesnake			S		1
Crotaphytus nebrius	Sonoran Collared Lizard					2
Cyananthus latirostris	Broad-billed Hummingbird		S			2
Cynomys gunnisoni	Gunnison's Prairie Dog	SC		S		1
Cynomys ludovicianus	Black-tailed Prairie Dog	CCA		S		1
Cyprinella formosa	Beautiful Shiner	LT				1
Cyprinodon macularius	Desert Pupfish	LE		S		1
Cyrtonyx montezumae	Montezuma Quail					3
Dendragapus obscurus	Dusky Grouse					2
Dendrocygna autumnalis	Black-bellied Whistling-Duck					2
Didelphis virginiana californica	Mexican Opossum					2
Dryobates arizonae	Arizona Woodpecker			S		2
Dumetella carolinensis	Gray Catbird			S		3
Elgaria kingii	Madrean Alligator Lizard					2
Empidonax fulvifrons pygmaeus	Northern Buff-breasted Flycatcher	SC	S			2

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**Species of Greatest Conservation Need Predicted that Intersect with Project Footprint as Drawn, based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Empidonax traillii extimus	Southwestern Willow Flycatcher	LE		S		1
Empidonax wrightii	Gray Flycatcher					2
Euderma maculatum	Spotted Bat	SC	S	S		2
Eugenes fulgens	Rivoli's Hummingbird					2
Eumops perotis californicus	Greater Western Bonneted Bat	SC		S		2
Eumops underwoodi	Underwood's Bonneted Bat	SC				2
Falco mexicanus	Prairie Falcon					2
Falco peregrinus anatum	American Peregrine Falcon	SC	S	S		1
Falco sparverius	American Kestrel					2
Gastrocopta dalliana	Shortneck Snaggletooth	CCA				1
Gastrophryne mazatlanensis	Sinoloan Narrow-mouthed Toad			S		2
Geothlypis tolmiei	MacGillivray's Warbler					2
Gila ditaenia	Sonora Chub	LT				1
Gila elegans	Bonytail Chub	LE		S		1
Gila intermedia	Gila Chub	LE		S		1
Gila purpurea	Yaqui Chub	LE				1
Gila robusta	Roundtail Chub	SC	S	S		1
Glaucidium brasilianum cactorum	Cactus Ferruginous Pygmy-owl	LT	S	S		1
Glaucidium gnoma californicum	Northern Pygmy-owl					2
Glaucidium gnoma gnoma	Mountain Pygmy-owl					2
Gopherus morafkai	Sonoran Desert Tortoise	CCA	S	S		1
Gyalopion quadrangulare	Thornscrub Hook-nosed Snake			S		2
Gymnorhinus cyanocephalus	Pinyon Jay	UR		S		2
Haemorhous cassinii	Cassin's Finch					2
Haliaeetus leucocephalus	Bald Eagle	SC	S	S		1
Heloderma suspectum	Gila Monster					1
Hyla wrightorum (Huachuca/Canelo Hills Pop.)	See: Hyla wrightorum	SC	S			1
Hypsiglena sp. nov.	Hooded Nightsnake					2
Ictalurus pricei	Yaqui Catfish	LT				1
Icterus bullockii	Bullock's Oriole					2
Icterus cucullatus	Hooded Oriole					2
Icterus parisorum	Scott's Oriole					2
Ictinia mississippiensis	Mississippi Kite					2
Idionycteris phyllotis	Allen's Lappet-browed Bat	SC	S	S		2
Inciilius alvarius	Sonoran Desert Toad					2
Ixobrychus exilis	Least Bittern					3
Junco phaeonotus	Yellow-eyed Junco		S			2
Kinosternon arizonense	Arizona Mud Turtle					2



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Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Kinosternon flavescens	Yellow Mud Turtle					2
Kinosternon sonoriense longifemorale	Sonoyta Mud Turtle	LE				1
Kinosternon sonoriense sonoriense	Desert Mud Turtle			S		2
Lampornis clemenciae	Blue-throated Mountain-gem					2
Lampropeltis gentilis	Western Milksnake					1
Lanius ludovicianus	Loggerhead Shrike	SC				2
Lasiurus cinereus	Hoary Bat					2
Lasiurus frantzii	Desert Red Bat		S			2
Lasiurus xanthinus	Western Yellow Bat		S			2
Leopardus pardalis	Ocelot	LE		S		1
Lepidomeda vittata	Little Colorado Spinedace	LT		S		1
Leptonycteris yerbabuena	Lesser Long-nosed Bat	SC		S		1
Lepus alleni	Antelope Jackrabbit					2
Lichanura trivirgata	Three-Lined Boa	SC				2
Lontra canadensis sonora	Southwestern River Otter	SC				2
Macrotus californicus	California Leaf-nosed Bat	SC		S		2
Meda fulgida	Spikedace	LE		S		1
Megascops kennicottii	Western Screech-owl					2
Megascops trichopsis	Whiskered Screech-owl		S			2
Melanerpes lewis	Lewis's Woodpecker					2
Melanerpes uropygialis	Gila Woodpecker					2
Melospiza lincolni	Lincoln's Sparrow					2
Melospiza aberti	Abert's Towhee		S			2
Micrathene whitneyi	Elf Owl					3
Microtus longicaudus leucophaeus	White-bellied Long-tailed Vole		S			2
Microtus longicaudus	Long-tailed Vole					3
Microtus montanus	Montane Vole					2
Micruroides euryxanthus	Sonoran Coralsnake					2
Myadestes townsendi	Townsend's Solitaire					2
Myiarchus tuberculifer	Dusky-capped Flycatcher					2
Myiodynastes luteiventris	Sulphur-bellied Flycatcher		S			2
Myotis auriculus	Southwestern Myotis					2
Myotis thysanodes	Fringed Myotis	SC				2
Myotis velifer	Cave Myotis	SC		S		2
Myotis yumanensis	Yuma Myotis	SC				2
Neotamias cinereicollis	Gray-collared Chipmunk					2
Neotamias minimus	Least Chipmunk		S			2
Neotoma mexicana mexicana	Mexican Woodrat					2

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Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Neotoma stephensi	Stephen's Woodrat					2
Notiosorex cockrumi	Cockrum's Desert Shrew					2
Nyctinomops femorosaccus	Pocketed Free-tailed Bat					2
Nyctinomops macrotis	Big Free-tailed Bat	SC				2
Oncorhynchus apache	Apache Trout	LT,PD				1
Oreohelix concentrata	Huachuca Mountainsnail					2
Oreohelix grahamensis	Pinaleno Mountainsnail	CCA	S			1
Oreohelix houghi	Diablo Mountainsnail					2
Oxybelis aeneus	Brown Vinesnake		S			2
Pachyrhamphus aglaiae	Rose-throated Becard		S			2
Panthera onca	Jaguar	LE		S		1
Parabuteo unicinctus	Harris's Hawk					2
Passerculus sandwichensis	Savannah Sparrow					2
Patagioenas fasciata	Band-tailed Pigeon					2
Perisoreus canadensis	Canada Jay					2
Perognathus amplus cineris	Wupatki Arizona Pocket Mouse	SC				2
Perognathus amplus	Arizona Pocket Mouse					2
Perognathus flavus goodpasteri	Springerville Pocket Mouse	SC	S			2
Peromyscus nasutus	Northern Rock Deermouse					2
Peucaea botteri arizonae	Arizona Botter's Sparrow			S		2
Peucaea carpalis	Rufous-winged Sparrow					2
Peucedramus taeniatus	Olive Warbler					3
Phrynosoma goodei	Goode's Horned Lizard					2
Phrynosoma solare	Regal Horned Lizard					2
Phyllorhynchus browni	Saddled Leaf-nosed Snake					2
Pinicola enucleator	Pine Grosbeak					2
Plestiodon callicephalus	Mountain Skink		S			2
Poecile sclateri	Mexican Chickadee					2
Poeciliopsis occidentalis occidentalis	Gila Topminnow	LE,UR		S		1
Poeciliopsis occidentalis sonoriensis	Yaqui Topminnow	LE				1
Polioptila nigriceps	Black-capped Gnatcatcher					2
Poocetes gramineus	Vesper Sparrow					2
Progne subis hesperia	Desert Purple Martin			S		2
Psiloscops flammeolus	Flammulated Owl					2
Ptychocheilus lucius	Colorado Pikeminnow	LE,XN				1
Pyrgulopsis arizonae	Bylas Springsnail	SC		S		1
Pyrgulopsis bernardina	San Bernardino Springsnail	LT				1

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Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Pyrgulopsis thompsoni	Huachuca Springsnail	CCA	S			1
Radiocentrum chiricahuana	Chiricahua Mountainsnail					2
Radiocentrum clappi	Cave Creek Mountainsnail					2
Rallus limicola	Virginia Rail					3
Rana blairi	Plains Leopard Frog			S		1
Rana chiricahuensis	Chiricahua Leopard Frog	LT		S		1
Rana pipiens	Northern Leopard Frog		S			1
Rana tarahumarae	Tarahumara Frog	SC	S			1
Rana yavapaiensis	Lowland Leopard Frog	SC	S	S		1
Rhynchophanes mccownii	McCown's Longspur					2
Sceloporus jarrovi	Yarrow's Spiny Lizard					2
Sceloporus slevini	Slevin's Bunchgrass Lizard		S	S		2
Sceloporus virgatus	Striped Plateau Lizard					2
Sciurus arizonensis	Arizona Gray Squirrel					2
Sciurus nayaritensis chiricahuae	Chiricahua Fox Squirrel	SC	S			2
Senticolis triaspis	Green Ratsnake		S			2
Setophaga graciae	Grace's Warbler					2
Setophaga nigrescens	Black-throated Gray Warbler					2
Sialia sialis fulva	Azure Bluebird					2
Sigmodon arizonae cienegae	Arizona Cotton Rat					2
Sigmodon hispidus	Hispid Cotton Rat					2
Sistrurus tergeminus	Western Massasauga					1
Smilisca fodiens	Lowland Burrowing Treefrog			S		2
Sonorella ashmuni	Richinbar Talussnail					2
Sonorella baboquivariensis	Baboquivari Talussnail					2
Sonorella christenseni	Clark Peak Talussnail	CCA	S			1
Sonorella dalli	Garden Canyon Talussnail					2
Sonorella danieli	Bear Canyon Talussnail					2
Sonorella galiuensis	Galiuro Talussnail					2
Sonorella grahamensis	Pinaleno Talussnail	CCA	S			1
Sonorella granulatisima	Ramsey Canyon Talussnail					2
Sonorella imitator	Mimic Talussnail	CCA	S			1
Sonorella macrophallus	Wet Canyon Talussnail	CCA	S			1
Sonorella rooseveltiana	Roosevelt Talussnail					2
Sonorella superstitionis	Superstition Mountains Talussnail					2
Sonorella virilis	Chiricahua Talussnail					2
Sonorella walkeri	Santa Rita Talussnail					2
Sorex arizonae	Arizona Shrew	SC	S			2
Sorex nanus	Dwarf Shrew					2

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**Species of Greatest Conservation Need Predicted that Intersect with Project Footprint as Drawn, based on Predicted Range Models**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Sorex navigator	Western Water Shrew		S			2
Spizella breweri	Brewer's Sparrow					2
Strix occidentalis lucida	Mexican Spotted Owl	LT		S		1
Sylvilagus nuttallii pinetis	A Southwestern Cottontail					3
Tadarida brasiliensis	Brazilian Free-tailed Bat					2
Tamiasciurus fremonti grahamensis	Mt Graham Red Squirrel	LE				1
Tantilla wilcoxi	Chihuahuan Black-headed Snake		S			2
Tantilla yaquia	Yaqui Black-headed Snake		S			2
Terrapene ornata	Ornate Box Turtle			S		1
Thamnophis eques	Mexican Gartersnake	PS				1
Thamnophis rufipunctatus	Narrow-headed Gartersnake	LT	S	S		1
Thomomys umbrinus intermedius	Southern Pocket Gopher					2
Tiaroga cobitis	Loach Minnow	LE		S		1
Toxostoma bendirei	Bendire's Thrasher					2
Toxostoma lecontei	LeConte's Thrasher			S		2
Troglodytes pacificus	Pacific Wren					2
Trogon elegans	Elegant Trogon		S			2
Tryonia gilae	Gila Tryonia	SC		S		1
Tryonia quitobaquiae	Quitobaquito Tryonia	PE				1
Tyrannus crassirostris	Thick-billed Kingbird		S			2
Uma rufopunctata	Yuman Desert Fringe-toed Lizard	SC		S		2
Uma thurmanae	Mohawk Dunes Fringe-toad Lizard			S		2
Vireo vicinior	Gray Vireo		S			2
Xantusia bezyi	Bezy's Night Lizard		S			2
Xyrauchen texanus	Razorback Sucker	LE,PT		S		1
Zapus hudsonius luteus	New Mexico Meadow Jumping Mouse	LE	S			1
Zonotrichia leucophrys oriantha	Mountain West White-crowned Sparrow					2

**Species of Economic and Recreation Importance Predicted that Intersect with Project Footprint as Drawn**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Antilocapra americana americana	America Pronghorn					
Antilocapra americana sonoriensis	Sonoran Pronghorn		LE			
Callipepla gambelii	Gambel's Quail					
Callipepla squamata	Scaled Quail					
Cervus elaphus	Elk					
Cyrtonyx montezumae	Montezuma Quail					
Dendragapus obscurus	Dusky Grouse					
Meleagris gallopavo	Wild Turkey					

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**Species of Economic and Recreation Importance Predicted that Intersect with Project Footprint as Drawn**

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Odocoileus hemionus	Mule Deer					
Odocoileus virginianus	White-tailed Deer					
Ovis canadensis canadensis	Rocky Mountain Bighorn Sheep					
Ovis canadensis mexicana	Mexicana Desert Bighorn Sheep					
Patagioenas fasciata	Band-tailed Pigeon					
Pecari tajacu	Javelina					
Phasianus colchicus	Ring-necked Pheasant					
Puma concolor	Mountain Lion					
Sciurus aberti	Abert's Squirrel					
Sciurus nayaritensis chiricahuae	Chiricahua Fox Squirrel			S		
Sciurus nayaritensis	Mexican Fox Squirrel					
Tamiasciurus hudsonicus mogollonensis	Red Squirrel					
Ursus americanus	American Black Bear					
Zenaidura macroura	White-winged Dove					
Zenaidura macroura	Mourning Dove					

**Project Type: Military Activities, Development (new buildings, roads, etc.)**

**Project Type Recommendations:**

Fence recommendations will be dependent upon the goals of the fence project and the wildlife species expected to be impacted by the project. General guidelines for ensuring wildlife-friendly fences include: barbless wire on the top and bottom with the maximum fence height 42", minimum height for bottom 16". Modifications to this design may be considered for fencing anticipated to be routinely encountered by elk, bighorn sheep or pronghorn (e.g., Pronghorn fencing would require 18" minimum height on the bottom). Please refer to the Department's Fencing Guidelines located on Wildlife Friendly Guidelines page, which is part of the Wildlife Planning button at <https://www.azgfd.com/wildlife-conservation/planning-for-wildlife/planning-for-wildlife-wildlife-friendly-guidelines/>.

During the planning stages of your project, please consider the local or regional needs of wildlife in regards to movement, connectivity, and access to habitat needs. Loss of this permeability prevents wildlife from accessing resources, finding mates, reduces gene flow, prevents wildlife from re-colonizing areas where local extirpations may have occurred, and ultimately prevents wildlife from contributing to ecosystem functions, such as pollination, seed dispersal, control of prey numbers, and resistance to invasive species. In many cases, streams and washes provide natural movement corridors for wildlife and should be maintained in their natural state. Uplands also support a large diversity of species, and should be contained within important wildlife movement corridors. In addition, maintaining biodiversity and ecosystem functions can be facilitated through improving designs of structures, fences, roadways, and culverts to promote passage for a variety of wildlife. Guidelines for many of these can be found at: <https://www.azgfd.com/wildlife-conservation/planning-for-wildlife/planning-for-wildlife-wildlife-friendly-guidelines/>.

Consider impacts of outdoor lighting on wildlife and develop measures or alternatives that can be taken to increase human safety while minimizing potential impacts to wildlife. Conduct wildlife surveys to determine species within project area, and evaluate proposed activities based on species biology and natural history to determine if artificial lighting may disrupt behavior patterns or habitat use. Use only the minimum amount of light needed for safety. Narrow spectrum bulbs should be used as often as possible to lower the range of species affected by lighting. All lighting should be shielded, canted, or cut to ensure that light reaches only areas needing illumination.

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Consider tower designs and/or modifications that reduce or eliminate impacts to migratory birds (i.e. free standing, minimally lighted structures).

Minimize the potential introduction or spread of exotic invasive species, including aquatic and terrestrial plants, animals, insects and pathogens. Precautions should be taken to wash and/or decontaminate all equipment utilized in the project activities before entering and leaving the site. See the Arizona Department of Agriculture website for a list of prohibited and restricted noxious weeds at [https://www.invasivespeciesinfo.gov/unitedstates/az\\_shtml](https://www.invasivespeciesinfo.gov/unitedstates/az_shtml) and the Arizona Native Plant Society <https://aznps.com/invas> for recommendations on how to control. To view a list of documented invasive species or to report invasive species in or near your project area visit iMapInvasives - a national cloud-based application for tracking and managing invasive species at <https://imap.natureserve.org/map/services/page/map.html>.

- To build a list: zoom to your area of interest, use the identify/measure tool to draw a polygon around your area of interest, and select "See What's Here" for a list of reported species. To export the list, you must have an account and be logged in. You can then use the export tool to draw a boundary and export the records in a csv file.

Minimization and mitigation of impacts to wildlife and fish species due to changes in water quality, quantity, chemistry, temperature, and alteration to flow regimes (timing, magnitude, duration, and frequency of floods) should be evaluated. Minimize impacts to springs, in-stream flow, and consider irrigation improvements to decrease water use. If dredging is a project component, consider timing of the project in order to minimize impacts to spawning fish and other aquatic species (include spawning seasons), and to reduce spread of exotic invasive species. We recommend early coordination with Project Evaluation Program for projects that could impact water resources, wetlands, streams, springs, and/or riparian habitats.

The Department recommends that wildlife surveys are conducted to determine if noise-sensitive species occur within the project area. Avoidance or minimization measures could include conducting project activities outside of breeding seasons.

Vegetation restoration projects (including treatments of invasive or exotic species) should have a completed site-evaluation plan (identifying environmental conditions necessary to re-establish native vegetation), a revegetation plan (species, density, method of establishment), a short and long-term monitoring plan, including adaptive management guidelines to address needs for replacement vegetation.

**Project Location and/or Species Recommendations:**

Analysis indicates that your project is located in the vicinity of an identified **wildlife habitat linkage corridor**. The **Arizona Missing Linkages** represent ideal connections within or between intact blocks or core habitats. The blocks are currently disconnected or isolated and the linkages should be examined for improving permeability, or are currently intact and in need of preservation and/or enhancement. The reports provide recommendations for opportunities to preserve or enhance permeability. Project planning and implementation efforts should focus on maintaining and improving opportunities for wildlife permeability. For information pertaining to the linkage assessment and wildlife species that may be affected, please refer to: <https://www.azgfd.com/wildlife/planning/habitatconnectivity/identifying-corridors/>. Please contact the Project Evaluation Program ([pep@azgfd.gov](mailto:pep@azgfd.gov)) for specific project recommendations.

HDMS records indicate that one or more native plants listed on the **Arizona Native Plant Law and Antiquities Act** have been documented within the vicinity of your project area. Please contact: Arizona Department of Agriculture  
 1688 W Adams St.  
 Phoenix, AZ 85007  
 Phone: 602.542.4373  
<https://agriculture.az.gov/sites/default/files/Native%20Plant%20Rules%20-%20AZ%20Dept%20of%20Ag.pdf> starts on page 44

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HDMS records indicate that **Black-tailed Prairie Dogs** have been documented within the vicinity of your project area. Please review the Black-tailed Prairie Dog Management Guidelines found at: <https://s3.amazonaws.com/azgfd-portal-wordpress/PortalImages/files/wildlife/planningFor/wildlifeFriendlyGuidelines/FINALCynoludoHabitatGdlns.pdf>

HDMS records indicate that **Chiricahua Leopard Frogs** have been documented within the vicinity of your project area. Please review the Chiricahua Leopard Frog Management Guidelines found at: <https://s3.amazonaws.com/azgfd-portal-wordpress/PortalImages/files/wildlife/planningFor/wildlifeFriendlyGuidelines/FINALLithchirHabitatGdlns.pdf>

Analysis indicates that your project is located in the vicinity of an identified **Conservation Opportunity Area (COA)**. While there are many areas in Arizona that present abundant conservation opportunities, COAs are specific areas on the landscape that the Department identified as having the greatest potential for conservation efforts. COAs were identified using species and habitat data, the presence of unique landscape features, and Departmental expertise. COAs range in size, scope, and focal species and/or habitats and are strictly a non-regulatory conservation tool for the public and our conservation partners to consider. For more information regarding this particular COA near your project area and the Department's suggestions for potential conservation efforts, please visit the COA profile at <https://awcs.azgfd.com/conservation-opportunity-areas>.

Analysis indicates that your project is located in the vicinity of an identified **wildlife habitat connectivity feature**. The **County-level Stakeholder Assessments** contain five categories of data (Barrier/Development, Wildlife Crossing Area, Wildlife Movement Area- Diffuse, Wildlife movement Area- Landscape, Wildlife Movement Area- Riparian/Washes) that provide a context of select anthropogenic barriers, and potential connectivity. The reports provide recommendations for opportunities to preserve or enhance permeability. Project planning and implementation efforts should focus on maintaining and improving opportunities for wildlife permeability. For information pertaining to the linkage assessment and wildlife species that may be affected, please refer to: <https://www.azgfd.com/wildlife-conservation/planning-for-wildlife/planning-for-wildlife-identifying-corridors/>. Please contact the Project Evaluation Program ([pep@azgfd.gov](mailto:pep@azgfd.gov)) for specific project recommendations.

Analysis indicates that your project is located in the vicinity of an identified **wildlife habitat connectivity feature**. The **Detailed Wildlife Connectivity Assessments** represent ideal connections within or between intact blocks or core habitats. The blocks are currently disconnected or isolated and the linkages should be examined for improving permeability, or are currently intact and in need of preservation and/or enhancement. The reports provide recommendations for opportunities to preserve or enhance permeability. Project planning and implementation efforts should focus on maintaining and improving opportunities for wildlife permeability. For information pertaining to the linkage assessment and wildlife species that may be affected, please refer to: <https://www.azgfd.com/wildlife/planning/habitatconnectivity/identifying-corridors/>. Please contact the Project Evaluation Program ([pep@azgfd.gov](mailto:pep@azgfd.gov)) for specific project recommendations.

The analysis has detected one or more **Important Bird Areas** within your project vicinity. Please see [http://aziba.org/?page\\_id=38](http://aziba.org/?page_id=38) for details about the Important Bird Area(s) identified in the report.

HDMS records indicate that **Lesser Long-nosed Bats** have been documented within the vicinity of your project area. Please review the Lesser Long-nosed Bat Management Guidelines at: <https://s3.amazonaws.com/azgfd-portal-wordpress/PortalImages/files/wildlife/planningFor/wildlifeFriendlyGuidelines/FINALlecyueHabitatGdln.pdf>

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HDMS records indicate that one or more **Listed, Proposed, or Candidate** species or **Critical Habitat** (Designated or Proposed) have been documented in the vicinity of your project. The Endangered Species Act (ESA) gives the US Fish and Wildlife Service (USFWS) regulatory authority over all federally listed species. Please contact USFWS Ecological Services Offices at <https://www.fws.gov/office/arizona-ecological-services> or:

<b>Phoenix Main Office</b> 9828 North 31st Avenue #C3 Phoenix, AZ 85051-2517 Phone: 602-242-0210 Fax: 602-242-2513	<b>Tucson Sub-Office</b> 201 N. Bonita Suite 141 Tucson, AZ 85745 Phone: 520-670-6144 Fax: 520-670-6155	<b>Flagstaff Sub-Office</b> SW Forest Science Complex 2500 S. Pine Knoll Dr. Flagstaff, AZ 86001 Phone: 928-556-2157 Fax: 928-556-2121
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HDMS records indicate that **Mount Graham Red Squirrel** have been documented within the vicinity of your project area. Please review the Mount Graham Red Squirrel Management Guidelines found at: <https://s3.amazonaws.com/azgfd-portal-wordpress/PortalImages/files/wildlife/planningFor/wildlifeFriendlyGuidelines/FINALTamihudsgrahaHabitatGdlns.pdf>

HDMS records indicate that **Peregrine Falcons** have been documented within the vicinity of your project area. Please review the Peregrine Falcon Management Guidelines at: <https://s3.amazonaws.com/azgfd-portal-wordpress/PortalImages/files/wildlife/planningFor/wildlifeFriendlyGuidelines/peregrineFalconConservGuidelines.pdf>.

This review has identified **riparian areas** within the vicinity of your project. During the planning stage of your project, avoid, minimize, or mitigate any potential impacts to riparian areas identified in this report. Riparian areas play an important role in maintaining the functional integrity of the landscape, primarily by acting as natural drainages that convey water through an area, thereby reducing flood events. In addition, riparian areas provide important movement corridors and habitat for fish and wildlife. Riparian areas are channels that contain water year-round or at least part of the year. Riparian areas also include those channels which are dry most of the year, but may contain or convey water following rain events. All types of riparian areas offer vital habitats, resources, and movement corridors for wildlife. The Pinal County Comprehensive Plan (i.e. policies 6.1.2.1 and 7.1.2.4), Open Space and Trails Master Plan, Drainage Ordinance, and Drainage Design Manual all identify riparian area considerations, guidance, and policies. Guidelines to avoid, minimize, or mitigate impacts to riparian habitat can be found at <https://www.azgfd.com/wildlife-conservation/planning-for-wildlife/planning-for-wildlife-wildlife-friendly-guidelines/>. Further consultation with the Arizona Game and Fish Department and Pinal County may be warranted.

HDMS records indicate that **Sonoran Desert Tortoise** have been documented within the vicinity of your project area. Please review the Tortoise Handling Guidelines found at <https://s3.amazonaws.com/azgfd-portal-wordpress/PortalImages/files/wildlife/2014%20Tortoise%20handling%20guidelines.pdf>.

Analysis indicates that your project is located in the vicinity of an identified **wildlife habitat connectivity feature**. The **Statewide Wildlife Connectivity Assessment's Important Connectivity Zones (ICZs)** represent general areas throughout the landscape which contribute the most to permeability of the whole landscape. ICZs may be used to help identify, in part, areas where more discrete corridor modeling ought to occur. The reports provide recommendations for opportunities to preserve or enhance permeability. Project planning and implementation efforts should focus on maintaining and improving opportunities for wildlife permeability. For information pertaining to the linkage assessment and wildlife species that may be affected, please refer to: [https://s3.amazonaws.com/azgfd-portal-wordpress/azgfd/wp/wp-content/uploads/0001/01/23120719/ALIWCA\\_Final\\_Report\\_Perkl\\_2013\\_lowres.pdf](https://s3.amazonaws.com/azgfd-portal-wordpress/azgfd/wp/wp-content/uploads/0001/01/23120719/ALIWCA_Final_Report_Perkl_2013_lowres.pdf). Please contact the Project Evaluation Program ([pep@azgfd.gov](mailto:pep@azgfd.gov)) for specific project recommendations.

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HDMS records indicate that **Western Burrowing Owls** have been documented within the vicinity of your project area. Please review the western burrowing owl resource page at <https://www.azgfd.com/wildlife-conservation/conservation-and-endangered-species-programs/burrowing-owl-management/>.



*USFWS Section 7 Informal Consultation Letter*



DEPARTMENT OF THE AIR FORCE  
355TH FIGHTER WING  
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

August 27, 2024

Barbara Long, PMAES, DAFC  
Cultural/Natural Resources and NEPA Manager  
355 CES/CEIE  
3775 South Fifth Street  
Davis-Monthan AFB AZ 85707-3012

Heather Whitlaw  
Field Supervisor  
U.S. Fish and Wildlife Service  
Arizona Ecological Services Field Office  
9828 North 31st Ave #c3  
Phoenix AZ 85051-2517

Project Codes: 2024-0105883; 2024-0129675

Dear Ms. Whitlaw

The United States (U.S.) Department of the Air Force (DAF) is preparing an Environmental Impact Statement (EIS) to analyze the potential environmental consequences that could result from the 492nd Special Operations Wing (492 SOW) Beddown at Davis-Monthan Air Force Base (AFB), Arizona. This letter serves to facilitate informal consultation with the U.S. Fish and Wildlife Service (USFWS) and to request concurrence with the DAF's determination of *No Effects* to federally listed species from the Proposed Action.

**Project Description.** The Proposed Action analyzed in the EIS addresses several actions associated with Davis-Monthan AFB, Air Force Special Operations Command (AFSOC), and Air Combat Command (ACC). The actions include the beddown of the 492 SOW, the transfer of Special Tactics and Special Operations Theater Air Operations Squadrons to Davis-Monthan AFB, activation of an ACC Intelligence Squadron (IS) and facilities and infrastructure construction, renovation, and demolition projects. In addition, the EIS will analyze interim conditions, defined as the timeframe between the Phase 1 and planned Phase 2 A-10 retirements, along with the No Action and Proposed Action Alternatives. Specific facilities on Davis-Monthan AFB that would be included as part of the Proposed Action are shown in Attachment 1. The airspace and ranges proposed for use are shown in Attachment 2.

**Threatened and Endangered Species.** The USFWS's Information for Planning and Consultation (IPaC) online system was accessed on June 18, 2024 and August 13, 2024, to identify federally listed species protected under the Endangered Species Act (ESA) (16 U.S. Code [USC] 1531-1544, as amended) with potential to occur within the region of

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influence (ROI) (i.e., action area). The ROI for biological resources includes the base affected environment and the airspace and range affected environment.

**Base Affected Environment** – The base affected environment includes the areas affected by ground disturbance at Davis-Monthan AFB and the areas surrounding the base that currently experience aircraft noise of 65 decibel (dB) day-night average sound level (DNL) or greater (Attachment 1). Via an online letter dated June 18, 2024, the USFWS provided an automated official species list identifying 11 species (including 1 candidate species and 10 threatened and endangered species) with potential to occur in the base affected ROI for biological resources. No federally designated critical habitat occurs at or near the installation (Project Code: 2024-0105883) (Attachment 3) (USFWS 2024a). Refer to Attachment 5 for a list of these species, their preferred habitats, and effects determination rationales.

**Airspace and Range Affected Environment** – The airspace and range affected environment includes lands beneath the airspace and ranges proposed for use in southern Arizona and southwestern New Mexico (Attachment 2). Via an online letter dated August 13, 2024, the USFWS provided an additional automated official species list that identified 51 species with potential to occur on the lands beneath the airspace and ranges proposed for use. Additionally, there are 23 critical habitats wholly or partially beneath these areas. Refer to Attachment 4 for a copy of the IPaC letter that includes a comprehensive list of these species and critical habitats (Project Code: 2024-0129675) (USFWS 2024b).

**Conclusion.** Implementation of the Proposed Action would have a determination of *No Effects* to federally listed species.

**Base Effects Determination** – Because no federally listed threatened, endangered, or candidate species and/or designated critical habitat(s) occur at Davis-Monthan AFB (DAF, 2023a), no effects to federally listed species would result from implementation of the Proposed Action.

The annual estimated number of total 492 SOW aircraft operations is approximately 20,040 per year for all units. Based A-10 aircraft, which conduct 24,068 annual operations under interim conditions, would retire from Davis-Monthan AFB, resulting in a net decrease of 4,028 total airfield operations. Any decrease in airfield operations within the ROI could result in a decreased opportunity for bird-aircraft strikes to occur. Adherence to the existing Bird/Wildlife Aircraft Strike Hazard (BASH) program would minimize the risk of bird-aircraft strikes for migratory birds (DAF, 2023b). A decrease in airfield operations may reduce effects to nesting migratory birds in the ROI as well.

The DAF has determined that implementation of the Proposed Action would have no effects to federally listed species known to occur or with potential to occur in the areas affected by ground disturbance at Davis-Monthan AFB and the areas surrounding the base that experience aircraft noise of 65 dB DNL or greater.

**Airspace and Range Effects Determination** – It is anticipated that no adverse effects to federally listed species, critical habitats, migratory birds, and bald and golden eagles would result from implementation of the Proposed Action. When compared to interim conditions, there would be a decrease of 8,828 annual aircraft operations and there would be no changes to the lands beneath the airspace and ranges proposed for use. Ground disturbance beneath the airspace and ranges proposed for use would be limited to the use

of defensive countermeasures, such as chaff and flares, and munitions. Compared to interim conditions, munitions use at approved ranges would be reduced by 768,185 rounds per year and the use of defensive countermeasures (chaff and flares) would decrease by 45,680 per year.

All airspace proposed for use by AFSOC pilots is currently used as active military airspace by military jet aircraft; no new types of effects would be introduced into these areas.

When compared to interim conditions, the  $L_{dnnr}$  (i.e., onset rate-adjusted day-night average, A-weighted sound level) would remain the same or decrease beneath all the airspace areas proposed for use, except under the Fort Huachuca Airspace (Restricted Area [R-2303] A/B/C) (Attachment 2). Under the Fort Huachuca Airspace, the  $L_{dnnr}$  would increase by 5 dB up to 54 dB. Wildlife under the Fort Huachuca Airspace have been previously exposed to aircraft noise and use of munitions and could be habituated to the environment and its ongoing military use. Under the Proposed Action, wildlife under the proposed airspace would not be exposed to a significant change in the noise environment.

Chaff and flares would be used as a defensive countermeasure by AFSOC pilots during training operations. Chaff and flares would only be used in airspace areas currently approved for such use. Flare use by pilots would conform to existing altitude and seasonal restrictions to ensure fire safety. Ordnance delivery would only occur in ranges authorized for such use. When compared to interim conditions, use of munitions and defensive countermeasures would decrease.

When compared to interim conditions, AFSOC aircraft operations would increase in some areas of special use airspace and decrease in others. These changes in operations are not anticipated to substantially change the BASH risk in the airspace. Current procedures for avoiding flight operations during periods of high concentrations of birds (both in space and time) would continue. Adherence to the existing BASH program would minimize the risk of bird-aircraft strikes to negligible levels.

As such, the DAF has determined that implementation of the Proposed Action would have no effects to federally listed species known to occur or with potential to occur in the land beneath the airspace and ranges proposed for use.

In accordance with Section 7(c) of the ESA, the Sikes Act (16 USC 670a-670o, 74 Stat. 1052), and as part of the DAF's Environmental Impact Analysis Process, the DAF requests your agency's concurrence on the effects determinations provided in this letter. In the meantime, if you have any comments or questions, please contact me by phone at (520) 228-4035 or refer to the project website at <https://492sow-beddown-eis.com>. Thank you for your assistance.

Sincerely

LONG.BARBARA.ELIS  
ABETH.1176974512

Digitally signed by  
LONG.BARBARA.ELISABETH.1176  
194612  
Date: 2024.09.03 15:32:51 -0700

BARBARA LONG, PMAES, DAFC  
Cultural/Natural Resources and NEPA  
Manager

Attachments:

1. Base Affected Environment Map
2. Airspace Affected Environment Map
3. IPaC Trust Resource Report – Base Affected Environment
4. IPaC Trust Resource Report – Airspace Affected Environment
5. Potential for Impacts from the Proposed Action to Federally Listed Species Known to Occur or With Potential to Occur in the Region of Influence

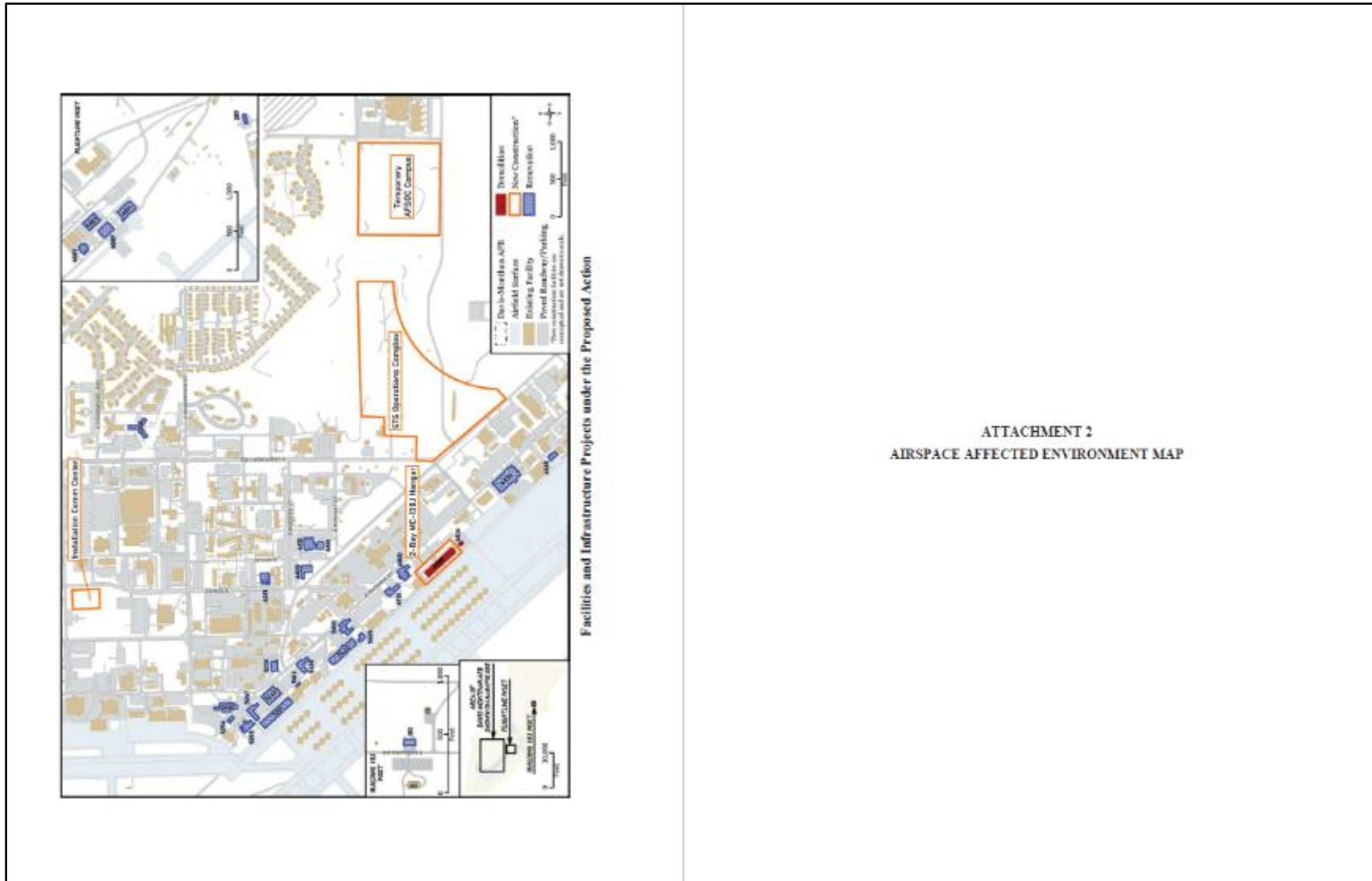
References:

- DAF 2023a. Department of the Air Force (DAF). Davis-Monthan Air Force Base Integrated Natural Resource Management Plan. 2023.
- DAF 2023b. Department of the Air Force (DAF). 355th Wing Davis-Monthan Air Force Base Bird/Wildlife Aircraft Strike Hazard Plan. 2023.
- USFWS 2024a. United States Fish and Wildlife Service (USFWS). Information for Planning and Consultation - DM AFB Base Affected Environment ROI. Accessed online at: <https://ipac.ecosphere.fws.gov/>
- USFWS 2024b. United States Fish and Wildlife Service (USFWS). Information for Planning and Consultation - DM AFB Airspace Affected Environment ROI. Accessed online at: <https://ipac.ecosphere.fws.gov/>

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ATTACHMENT 1  
BASE AFFECTED ENVIRONMENT MAP





ATTACHMENT 2  
AIRSPACE AFFECTED ENVIRONMENT MAP





United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Arizona Ecological Services Field Office  
9828 North 31st Ave  
#C3  
Phoenix, AZ 85051-2517  
Phone: (602) 242-0210 Fax: (602) 242-2513



In Reply Refer To: 06/18/2024 20:37:48 UTC  
Project Code: 2024-0105883  
Project Name: NATURAL RESOURCES SUPPORT ON THE AFSOC BASING AND  
BEDDOWN ENVIRONMENTAL IMPACT STATEMENT AT DM AFB

Subject: List of threatened and endangered species that may occur in your proposed project  
location or may be affected by your proposed project

To Whom It May Concern:

The Fish and Wildlife Service (Service) is providing this list under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). The list you have generated identifies threatened, endangered, proposed, and candidate species, and designated and proposed critical habitat, that *may* occur within the One-Range that has been delineated for the species (candidate, proposed, or listed) and its critical habitat (designated or proposed) with which your project polygon intersects. These range delineations are based on biological metrics, and do not necessarily represent exactly where the species is located. Please refer to the species information found on ECOS to determine if suitable habitat for the species on your list occurs in your project area.

The purpose of the Act is to provide a means whereby threatened and endangered species and the habitats upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of Federal trust resources and to determine whether projects may affect federally listed species and/or designated critical habitat. A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12. If the Federal action agency determines that listed species or critical habitat *may be affected* by a federally funded, permitted or authorized activity, the agency must consult with us pursuant to 50 CFR 402. Note that a "may affect" determination includes effects that may not be adverse and

Project code: 2024-0105883

06/18/2024 20:37:48 UTC

that may be beneficial, insignificant, or discountable. An effect exists even if only one individual or habitat segment may be affected. The effects analysis should include the entire action area, which often extends well outside the project boundary or "footprint." For example, projects that involve streams and river systems should consider downstream affects. If the Federal action agency determines that the action may jeopardize a *proposed* species or may adversely modify *proposed* critical habitat, the agency must enter into a section 7 conference. The agency may choose to confer with us on an action that may affect proposed species or critical habitat.

Candidate species are those for which there is sufficient information to support a proposal for listing. Although candidate species have no legal protection under the Act, we recommend that they be considered in the planning process in the event they become proposed or listed prior to project completion. More information on the regulations (50 CFR 402) and procedures for section 7 consultation, including the role of permit or license applicants, can be found in our Endangered Species Consultation Handbook at: <https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>.

We also advise you to consider species protected under the Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703-712) and the Bald and Golden Eagle Protection Act (Eagle Act) (16 U.S.C. 668 *et seq.*). The MBTA prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when authorized by the Service. The Eagle Act prohibits anyone, without a permit, from taking (including disturbing) eagles, and their parts, nests, or eggs. Currently 1,026 species of birds are protected by the MBTA, including the western burrowing owl (*Athene cucularia hypugaea*). Protected western burrowing owls can be found in urban areas and may use their nest/burrows year-round; destruction of the burrow may result in the unpermitted take of the owl or their eggs.

If a bald eagle or golden eagle nest occurs in or near the proposed project area, our office should be contacted for Technical Assistance. An evaluation must be performed to determine whether the project is likely to disturb or harm eagles. The National Bald Eagle Management Guidelines provide recommendations to minimize potential project impacts to bald eagles (see <https://www.fws.gov/law/bald-and-golden-eagle-protection-act> and <https://www.fws.gov/program/eagle-management>).

The Division of Migratory Birds (505/248-7882) administers and issues permits under the MBTA and Eagle Act, while our office can provide guidance and Technical Assistance. For more information regarding the MBTA, BGPEA, and permitting processes, please visit the following web site: <https://www.fws.gov/program/migratory-bird-permit>. Guidance for minimizing impacts to migratory birds for communication tower projects (e.g. cellular, digital television, radio, and emergency broadcast) can be found at <https://www.fws.gov/media/recommended-best-practices-communication-tower-design-siting-construction-operation>.

The U.S. Army Corps of Engineers (Corps) may regulate activities that involve streams (including some intermittent streams) and/or wetlands. We recommend that you contact the Corps to determine their interest in proposed projects in these areas. For activities within a National Wildlife Refuge, we recommend that you contact refuge staff for specific information

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about refuge resources, please visit [this link](#) or visit <https://www.fws.gov/program/national-wildlife-refuge-system> to locate the refuge you would be working in or around.

If your action is on tribal land or has implications for off-reservation tribal interests, we encourage you to contact the tribe(s) and the Bureau of Indian Affairs (BIA) to discuss potential tribal concerns, and to invite any affected tribe and the BIA to participate in the section 7 consultation. In keeping with our tribal trust responsibility, we will notify tribes that may be affected by proposed actions when section 7 consultation is initiated. For more information, please contact our Tribal Coordinator, John Nystedt, at 928/556-2160 or [John.Nystedt@fws.gov](mailto:John.Nystedt@fws.gov).

We also recommend you seek additional information and coordinate your project with the Arizona Game and Fish Department. Information on known species detections, special status species, and Arizona species of greatest conservation need, such as the western burrowing owl and the Sonoran desert tortoise (*Gopherus morafkai*) can be found by using their Online Environmental Review Tool, administered through the Heritage Data Management System and Project Evaluation Program (<https://www.azgfd.com/wildlife-conservation/planning-for-wildlife/project-evaluation-program>).

We appreciate your concern for threatened and endangered species. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office. If we may be of further assistance, please contact our Flagstaff office at 928/556-2118 for projects in northern Arizona, our general Phoenix number 602/242-0210 for central Arizona, or 520/670-6144 for projects in southern Arizona.

Sincerely,  
*/s/*

Heather Whitlaw  
Field Supervisor  
Attachment

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

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## OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Arizona Ecological Services Field Office**  
9828 North 31st Ave  
#c3  
Phoenix, AZ 85051-2517  
(602) 242-0210

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**PROJECT SUMMARY**

Project Code: 2024-0105883  
 Project Name: NATURAL RESOURCES SUPPORT ON THE AFSOC BASING AND BEDDOWN ENVIRONMENTAL IMPACT STATEMENT AT DM AFB  
 Project Type: Airport - New Construction  
 Project Description: The Air Force Special Operations Command (AFSOC) is conducting a basing action at Davis-Monthan AFB in Arizona. As part of the basing action, an Environmental Impact Statement (EIS) will be prepared.

The EIS shall provide sufficient, documented information to analyze potential environmental impacts associated with several ongoing strategic basing actions. The first of these is the proposed divestment of 84x A-10C aircraft from Davis- Monthan AFB and the transfer of AFSOCs 492nd Special Operations Wing and subsequent missions. The A-10C aircraft currently assigned to Davis- Monthan AFB would be divested in two phases. The 354th FS would be inactivated and the 357th FS and 47th FS would be reduced in FY24, divesting 36 A-10C aircraft by the end of FY24. In FY26 the 357th FS and 47th FS would be inactivated, and the remaining 46 aircraft would be divested. There would be a reduction of approximately 2,274 manpower authorizations associated with the divestiture of the A-10s at Davis-Monthan.

AFSOC previously conducted a site visit to scope facilities. The AFSOC/ A4IC and Det 3, IMSC team confirmed the condition and capacity for senior leadership decision space. AF/A8X provided guidance to focus on A-10C facilities only. The team compared the A-10C facilities with the AFSOC force structure to estimate beddown costing and requirements. Military Construction (MILCON) would potentially be programmed starting in FY28 and Facilities, Sustainment, Restoration, & Modification (FSRM) starting in FY26.

The following is a list of proposed/potential MILCON based on the site visit:

- 2-Bay MC-130J Hangar / AMU
- STS Aquatic Trainer Facility
- STS HPTC Facility
- STS Dual Sq Ops Complex
- Installation Comm Center

The following is a list of proposed FSRM based on the site visit:


- Back Shop Upgrades & Refresh
- Renovate CDCs for Tenant Wing HQ Campus
- Renovate 4413 & 1446 for MC-130J and OA-1K Simulators
- Refresh 5251 & 5247 for Armed Overwatch
- Refresh 4800/5600 for two MC-130J Squadron Operations

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- ADAL Fac for SERE/AFE/Oss
- Refresh 5255 for MC-130J Corrosion Control
- Convert 4400 to SCIF (T-AOS)
- Restripe Ramp & Demo Sun Shades
- STS Climbing Tower
- Interim Swing Space

Project Location:  
 The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@32.15863415,-110.83773354372195,14z>



Counties: Pima County, Arizona

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**ENDANGERED SPECIES ACT SPECIES**

There is a total of 11 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>4</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [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.

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**MAMMALS**

NAME	STATUS
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Ocelot <i>Leopardus (=Felis) pardalis</i>	Endangered
No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4474">https://ecos.fws.gov/ecp/species/4474</a>	

**BIRDS**

NAME	STATUS
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Cactus Ferruginous Pygmy-owl <i>Glaucidium brasilianum cactorum</i>	Threatened
There is <b>final</b> critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1225">https://ecos.fws.gov/ecp/species/1225</a>	
California Least Tern <i>Sternula antillarum browni</i>	Endangered
No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8104">https://ecos.fws.gov/ecp/species/8104</a>	
Yellow-billed Cuckoo <i>Coccyzus americanus</i>	Threatened
Population: Western U.S. DPS There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3911">https://ecos.fws.gov/ecp/species/3911</a>	

**REPTILES**

NAME	STATUS
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Sonoyta Mud Turtle <i>Kinosternon sonoriense longifemorale</i>	Endangered
There is <b>final</b> critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7276">https://ecos.fws.gov/ecp/species/7276</a>	

**FISHES**

NAME	STATUS
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Gila Chub <i>Gila intermedia</i>	Endangered
There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/51">https://ecos.fws.gov/ecp/species/51</a>	
Gila Topminnow (incl. Yaqui) <i>Poeciliopsis occidentalis</i>	Endangered
No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1116">https://ecos.fws.gov/ecp/species/1116</a>	

**INSECTS**

NAME	STATUS
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Monarch Butterfly <i>Danaus plexippus</i>	Candidate
No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	

**FLOWERING PLANTS**

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NAME	STATUS
Arizona Eryngo <i>Eryngium sparganophyllum</i> Population: There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/10705">https://ecos.fws.gov/ecp/species/10705</a>	Endangered
Huachuca Water-umbel <i>Lilaeopsis schaffneriana</i> var. <i>recurva</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1201">https://ecos.fws.gov/ecp/species/1201</a>	Endangered
Pima Pineapple Cactus <i>Coryphantha scheeri</i> var. <i>robustispina</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4919">https://ecos.fws.gov/ecp/species/4919</a>	Endangered

**CRITICAL HABITATS**  
 THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.  
 YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

**USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES**  
 Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.  
 THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

**BALD & GOLDEN EAGLES**  
 Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.  
 Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

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

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There are likely bald eagles present in your project area. For additional information on bald eagles, refer to [Bald Eagle Nesting and Sensitivity to Human Activity](#)

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

NAME	BREEDING SEASON
Bald Eagle <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>	Breeds Oct 15 to Aug 31
Golden Eagle <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 Dec 1 to Aug 31

**PROBABILITY OF PRESENCE SUMMARY**  
 The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "[Supplemental Information on Migratory Birds and Eagles](#)", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

**Probability of Presence (■)**  
 Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

**Breeding Season (■)**  
 Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

**Survey Effort (|)**  
 Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

**No Data (—)**  
 A week is marked as having no data if there were no survey events for that week.

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

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SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Bald Eagle Non-BCC Vulnerable												
Golden Eagle Non-BCC Vulnerable												

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/programs/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

### 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<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

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

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

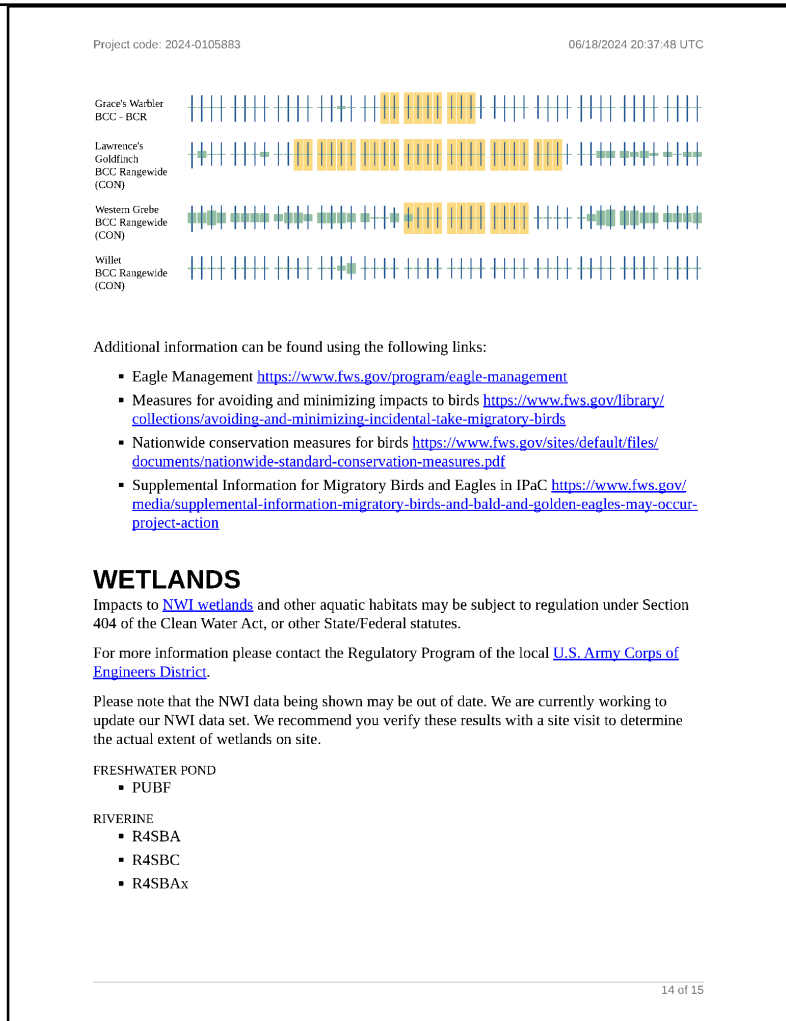
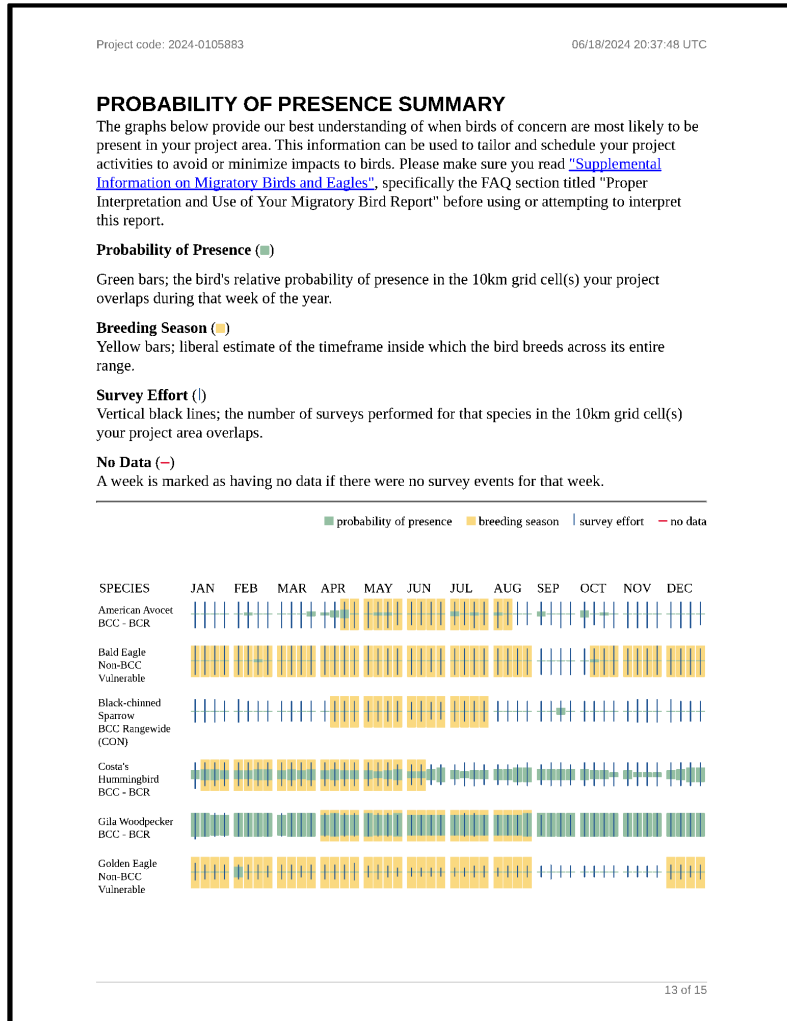
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NAME	BREEDING SEASON
American Avocet <i>Recurvirostra americana</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/11927">https://ecos.fws.gov/ecp/species/11927</a>	Breeds Apr 21 to Aug 10
Bald Eagle <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>	Breeds Oct 15 to Aug 31
Black-chinned Sparrow <i>Spizella atrogularis</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/9447">https://ecos.fws.gov/ecp/species/9447</a>	Breeds Apr 15 to Jul 31
Costa's Hummingbird <i>Calypte costae</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/9470">https://ecos.fws.gov/ecp/species/9470</a>	Breeds Jan 15 to Jun 10
Gila Woodpecker <i>Melanerpes uropygialis</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/5960">https://ecos.fws.gov/ecp/species/5960</a>	Breeds Apr 1 to Aug 31
Golden Eagle <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 Dec 1 to Aug 31
Grace's Warbler <i>Setophaga graciae</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/9514">https://ecos.fws.gov/ecp/species/9514</a>	Breeds May 20 to Jul 20
Lawrence's Goldfinch <i>Spinus 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
Western Grebe <i>aechmophorus occidentalis</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/6743">https://ecos.fws.gov/ecp/species/6743</a>	Breeds Jun 1 to Aug 31
Willet <i>Tringa semipalmata</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/10669">https://ecos.fws.gov/ecp/species/10669</a>	Breeds elsewhere

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**IPAC USER CONTACT INFORMATION**

Agency: Private Entity  
Name: Beau Rapier  
Address: 8081 Innovation Park Drive  
City: Baton Rouge  
State: LA  
Zip: 70820  
Email: beau@gsrcorp.com  
Phone: 2257578088

ATTACHMENT 4  
IPAC TRUST RESOURCE REPORT – AIRSPACE AFFECTED ENVIRONMENT

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United States Department of the Interior

FISH AND WILDLIFE SERVICE  
Arizona Ecological Services Field Office  
9828 North 31st Ave  
#C3  
Phoenix, AZ 85051-2517  
Phone: (602) 242-0210 Fax: (602) 242-2513



In Reply Refer To: 08/13/2024 15:36:41 UTC  
Project Code: 2024-0129675  
Project Name: NATURAL RESOURCES SUPPORT ON THE AFSOC BASING AND  
BEDDOWN ENVIRONMENTAL IMPACT STATEMENT AT DM AFB

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The Fish and Wildlife Service (Service) is providing this list under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). The list you have generated identifies threatened, endangered, proposed, and candidate species, and designated and proposed critical habitat, that *may* occur within the One-Range that has been delineated for the species (candidate, proposed, or listed) and its critical habitat (designated or proposed) with which your project polygon intersects. These range delineations are based on biological metrics, and do not necessarily represent exactly where the species is located. Please refer to the species information found on ECOS to determine if suitable habitat for the species on your list occurs in your project area.

The purpose of the Act is to provide a means whereby threatened and endangered species and the habitats upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of Federal trust resources and to determine whether projects may affect federally listed species and/or designated critical habitat. A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12. If the Federal action agency determines that listed species or critical habitat *may be affected* by a federally funded, permitted or authorized activity, the agency must consult with us pursuant to 50 CFR 402. Note that a "may affect" determination includes effects that may not be adverse and

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that may be beneficial, insignificant, or discountable. An effect exists even if only one individual or habitat segment may be affected. The effects analysis should include the entire action area, which often extends well outside the project boundary or "footprint." For example, projects that involve streams and river systems should consider downstream effects. If the Federal action agency determines that the action may jeopardize a *proposed* species or may adversely modify *proposed* critical habitat, the agency must enter into a section 7 conference. The agency may choose to confer with us on an action that may affect proposed species or critical habitat.

Candidate species are those for which there is sufficient information to support a proposal for listing. Although candidate species have no legal protection under the Act, we recommend that they be considered in the planning process in the event they become proposed or listed prior to project completion. More information on the regulations (50 CFR 402) and procedures for section 7 consultation, including the role of permit or license applicants, can be found in our Endangered Species Consultation Handbook at: <https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>.

We also advise you to consider species protected under the Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703-712) and the Bald and Golden Eagle Protection Act (Eagle Act) (16 U.S.C. 668 *et seq.*). The MBTA prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when authorized by the Service. The Eagle Act prohibits anyone, without a permit, from taking (including disturbing) eagles, and their parts, nests, or eggs. Currently 1,026 species of birds are protected by the MBTA, including the western burrowing owl (*Athene cunicularia hypugaea*). Protected western burrowing owls can be found in urban areas and may use their nest/burrows year-round; destruction of the burrow may result in the unpermitted take of the owl or their eggs.

If a bald eagle or golden eagle nest occurs in or near the proposed project area, our office should be contacted for Technical Assistance. An evaluation must be performed to determine whether the project is likely to disturb or harm eagles. The National Bald Eagle Management Guidelines provide recommendations to minimize potential project impacts to bald eagles (see <https://www.fws.gov/law/bald-and-golden-eagle-protection-act> and <https://www.fws.gov/program/eagle-management/>).

The Division of Migratory Birds (505/248-7882) administers and issues permits under the MBTA and Eagle Act, while our office can provide guidance and Technical Assistance. For more information regarding the MBTA, BGEPA, and permitting processes, please visit the following web site: <https://www.fws.gov/program/migratory-bird-permit>. Guidance for minimizing impacts to migratory birds for communication tower projects (e.g. cellular, digital television, radio, and emergency broadcast) can be found at <https://www.fws.gov/media/recommended-best-practices-communication-tower-design-siting-construction-operation>.

The U.S. Army Corps of Engineers (Corps) may regulate activities that involve streams (including some intermittent streams) and/or wetlands. We recommend that you contact the Corps to determine their interest in proposed projects in these areas. For activities within a National Wildlife Refuge, we recommend that you contact refuge staff for specific information

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about refuge resources, please visit [this link](#) or visit <https://www.fws.gov/program/national-wildlife-refuge-system> to locate the refuge you would be working in or around.

If your action is on tribal land or has implications for off-reservation tribal interests, we encourage you to contact the tribe(s) and the Bureau of Indian Affairs (BIA) to discuss potential tribal concerns, and to invite any affected tribe and the BIA to participate in the section 7 consultation. In keeping with our tribal trust responsibility, we will notify tribes that may be affected by proposed actions when section 7 consultation is initiated. For more information, please contact our Tribal Coordinator, John Nystedt, at 928/556-2160 or [John\\_Nystedt@fws.gov](mailto:John_Nystedt@fws.gov).

We also recommend you seek additional information and coordinate your project with the Arizona Game and Fish Department. Information on known species detections, special status species, and Arizona species of greatest conservation need, such as the western burrowing owl and the Sonoran desert tortoise (*Gopherus morafkai*) can be found by using their Online Environmental Review Tool, administered through the Heritage Data Management System and Project Evaluation Program (<https://www.azgfd.com/wildlife-conservation/planning-for-wildlife/project-evaluation-program/>).

We appreciate your concern for threatened and endangered species. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office. If we may be of further assistance, please contact our Flagstaff office at 928/556-2118 for projects in northern Arizona, our general Phoenix number 602/242-0210 for central Arizona, or 520/670-6144 for projects in southern Arizona.

Sincerely,  
/s/

Heather Whitlaw  
Field Supervisor  
Attachment

**Note:** IPaC has provided all available attachments because this project is in multiple field office jurisdictions.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

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## OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

### Arizona Ecological Services Field Office

9828 North 31st Ave  
#c3  
Phoenix, AZ 85051-2517  
(602) 242-0210

This project's location is within the jurisdiction of multiple offices. However, only one species list document will be provided for all offices. The species and critical habitats in this document reflect the aggregation of those that fall in each of the affiliated office's jurisdiction. Other offices affiliated with the project:

### New Mexico Ecological Services Field Office

2105 Osuna Road Ne  
Albuquerque, NM 87113-1001  
(505) 346-2525

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Project code: 2024-0129675

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**PROJECT SUMMARY**

Project Code: 2024-0129675  
 Project Name: NATURAL RESOURCES SUPPORT ON THE AFSOC BASING AND BEDDOWN ENVIRONMENTAL IMPACT STATEMENT AT DM AFB Airport - New Construction  
 Project Type: Airport - New Construction  
 Project Description: The Air Force Special Operations Command (AFSOC) is conducting a basing action at Davis-Monthan AFB in Arizona. As part of the basing action, an Environmental Impact Statement (EIS) will be prepared.

The EIS shall provide sufficient, documented information to analyze potential environmental impacts associated with several ongoing strategic basing actions. The first of these is the proposed divestment of 84x A-10C aircraft from Davis- Monthan AFB and the transfer of AFSOCs 492nd Special Operations Wing and subsequent missions. The A-10C aircraft currently assigned to Davis- Monthan AFB would be divested in two phases. The 354th FS would be inactivated and the 357th FS and 47th FS would be reduced in FY24, divesting 36 A-10C aircraft by the end of FY24. In FY26 the 357th FS and 47th FS would be inactivated, and the remaining 46 aircraft would be divested. There would be a reduction of approximately 2,274 manpower authorizations associated with the divestiture of the A-10s at Davis-Monthan.

AFSOC previously conducted a site visit to scope facilities. The AFSOC/ A4IC and Det 3, IMSC team confirmed the condition and capacity for senior leadership decision space. AF/A8X provided guidance to focus on A-10C facilities only. The team compared the A-10C facilities with the AFSOC force structure to estimate beddown costing and requirements. Military Construction (MILCON) would potentially be programmed starting in FY28 and Facilities, Sustainment, Restoration, & Modification (FSRM) starting in FY26.

The following is a list of proposed/potential MILCON based on the site visit:

- 2-Bay MC-130J Hangar / AMU
- STS Aquatic Trainer Facility
- STS HPTC Facility
- STS Dual Sq Ops Complex
- Installation Comm Center

The following is a list of proposed FSRM based on the site visit:

- Back Shop Upgrades & Refresh
- Renovate CDCs for Tenant Wing HQ Campus
- Renovate 4413 & 1446 for MC-130J and OA-1K Simulators
- Refresh 5251 & 5247 for Armed Overwatch

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- Refresh 4800/5600 for two MC-130J Squadron Operations
- ADAL Fac for SERE/AFE/Oss
- Refresh 5255 for MC-130J Corrosion Control
- Convert 4400 to SCIF (T-AOS)
- Restripe Ramp & Demo Sun Shades
- STS Climbing Tower
- Interim Swing Space

**Project Location:**

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@32.1765216,-112.56542667748568,14z>



Counties: Arizona and New Mexico

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**ENDANGERED SPECIES ACT SPECIES**

There is a total of 51 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [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.

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**MAMMALS**

NAME	STATUS
Jaguar <i>Panthera onca</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3944">https://ecos.fws.gov/ecp/species/3944</a>	Endangered
Mexican Long-nosed Bat <i>Leptonycteris nivalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8203">https://ecos.fws.gov/ecp/species/8203</a>	Endangered
Mexican Wolf <i>Canis lupus baileyi</i> Population: U.S.A. (portions of AZ and NM)see 17.84(k) No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3916">https://ecos.fws.gov/ecp/species/3916</a>	Experimental Population, Non-Essential
Mount Graham Red Squirrel <i>Tamiasciurus fremonti grahamensis</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8370">https://ecos.fws.gov/ecp/species/8370</a>	Endangered
New Mexico Meadow Jumping Mouse <i>Zapus hudsonius luteus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/7965">https://ecos.fws.gov/ecp/species/7965</a>	Endangered
Ocelot <i>Leopardus (=Felis) pardalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4474">https://ecos.fws.gov/ecp/species/4474</a>	Endangered
Sonoran Pronghorn <i>Antilocapra americana sonoriensis</i> Population: Wherever found, except where listed as an experimental population No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4750">https://ecos.fws.gov/ecp/species/4750</a>	Endangered
Sonoran Pronghorn <i>Antilocapra americana sonoriensis</i> Population: U.S.A. (AZ), Mexico No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4750">https://ecos.fws.gov/ecp/species/4750</a>	Experimental Population, Non-Essential

**BIRDS**

NAME	STATUS
Cactus Ferruginous Pygmy-owl <i>Glaucidium brasilianum cactorum</i> There is final critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1225">https://ecos.fws.gov/ecp/species/1225</a>	Threatened
California Least Tern <i>Sternula antillarum browni</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8104">https://ecos.fws.gov/ecp/species/8104</a>	Endangered
Masked Bobwhite (quail) <i>Colinus virginianus ridgwayi</i> No critical habitat has been designated for this species.	Endangered

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NAME	STATUS
Species profile: <a href="https://ecos.fws.gov/ecp/species/3484">https://ecos.fws.gov/ecp/species/3484</a>	
Mexican Spotted Owl <i>Strix occidentalis lucida</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8196">https://ecos.fws.gov/ecp/species/8196</a>	Threatened
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> Population: U.S.A (AZ, NM) No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1923">https://ecos.fws.gov/ecp/species/1923</a>	Experimental Population, Non-Essential
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/6749">https://ecos.fws.gov/ecp/species/6749</a>	Endangered
Yellow-billed Cuckoo <i>Coccyzus americanus</i> Population: Western U.S. DPS There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3911">https://ecos.fws.gov/ecp/species/3911</a>	Threatened
Yuma Ridgway's Rail <i>Rallus obsoletus yumanensis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3505">https://ecos.fws.gov/ecp/species/3505</a>	Endangered
<b>REPTILES</b>	
NAME	STATUS
Narrow-headed Gartersnake <i>Thamnophis rufipunctatus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/2204">https://ecos.fws.gov/ecp/species/2204</a>	Threatened
New Mexican Ridge-nosed Rattlesnake <i>Crotalus willardi obscurus</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3657">https://ecos.fws.gov/ecp/species/3657</a>	Threatened
Northern Mexican Gartersnake <i>Thamnophis eques megalops</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/7655">https://ecos.fws.gov/ecp/species/7655</a>	Threatened
Sonoyta Mud Turtle <i>Kinosternon sonoriense longifemorale</i> There is final critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7276">https://ecos.fws.gov/ecp/species/7276</a>	Endangered
<b>AMPHIBIANS</b>	
NAME	STATUS
Chiricahua Leopard Frog <i>Rana chiricahuensis</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1516">https://ecos.fws.gov/ecp/species/1516</a>	Threatened
Sonoran Tiger Salamander <i>Ambystoma mavortium stebbinsi</i>	Endangered

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NAME	STATUS
No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/2096">https://ecos.fws.gov/ecp/species/2096</a>	
<b>FISHES</b>	
NAME	STATUS
Apache Trout <i>Oncorhynchus apache</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3532">https://ecos.fws.gov/ecp/species/3532</a>	Threatened
Beautiful Shiner <i>Cyprinella formosa</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/7874">https://ecos.fws.gov/ecp/species/7874</a>	Threatened
Desert Pupfish <i>Cyprinodon macularius</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/7003">https://ecos.fws.gov/ecp/species/7003</a>	Endangered
Gila Chub <i>Gila intermedia</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/51">https://ecos.fws.gov/ecp/species/51</a>	Endangered
Gila Topminnow (incl. Yaqui) <i>Poeciliopsis occidentalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1116">https://ecos.fws.gov/ecp/species/1116</a>	Endangered
Gila Trout <i>Oncorhynchus gilae</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/781">https://ecos.fws.gov/ecp/species/781</a>	Threatened
Loach Minnow <i>Tiaroga cobitis</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/6922">https://ecos.fws.gov/ecp/species/6922</a>	Endangered
Razorback Sucker <i>Xyrauchen texanus</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/530">https://ecos.fws.gov/ecp/species/530</a>	Endangered
Sonora Chub <i>Gila ditaenia</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1394">https://ecos.fws.gov/ecp/species/1394</a>	Threatened
Spikedace <i>Meda fulgida</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/6493">https://ecos.fws.gov/ecp/species/6493</a>	Endangered
Woundfin <i>Plagopterus argentissimus</i> Population: Gila R. drainage, AZ, NM No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/49">https://ecos.fws.gov/ecp/species/49</a>	Experimental Population, Non-Essential
Yaqui Catfish <i>Ictalurus pricei</i>	Threatened

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NAME	STATUS
There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5432">https://ecos.fws.gov/ecp/species/5432</a>	
Yaqui Chub <i>Gila purpurea</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3414">https://ecos.fws.gov/ecp/species/3414</a>	Endangered
<b>SNAILS</b>	
NAME	STATUS
San Bernardino Springsnail <i>Pyrgulopsis bernardina</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1778">https://ecos.fws.gov/ecp/species/1778</a>	Threatened
<b>INSECTS</b>	
NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate
<b>FLOWERING PLANTS</b>	
NAME	STATUS
Acuña Cactus <i>Echinomastus erectocentrus</i> var. <i>acunensis</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/5785">https://ecos.fws.gov/ecp/species/5785</a>	Endangered
Arizona Cliffrose <i>Purshia</i> (= <i>Cowania</i> ) <i>subintegra</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/866">https://ecos.fws.gov/ecp/species/866</a>	Endangered
Arizona Eryngo <i>Eryngium sparganophyllum</i> Population: There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/10705">https://ecos.fws.gov/ecp/species/10705</a>	Endangered
Arizona Hedgehog Cactus <i>Echinocereus arizonicus</i> ssp. <i>arizonicus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1702">https://ecos.fws.gov/ecp/species/1702</a>	Endangered
Bartram's Stonecrop <i>Graptopetalum bartramii</i> There is proposed critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8382">https://ecos.fws.gov/ecp/species/8382</a>	Threatened
Beardless Chinchweed <i>Pectis imberbis</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1348">https://ecos.fws.gov/ecp/species/1348</a>	Endangered
Canelo Hills Ladies'-tresses <i>Spiranthes delitescens</i>	Endangered

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NAME	STATUS
No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8098">https://ecos.fws.gov/ecp/species/8098</a>	
Cochise Pincushion Cactus <i>Coryphantha robbinsorum</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7229">https://ecos.fws.gov/ecp/species/7229</a>	Threatened
Huachuca Water-umbel <i>Lilaeopsis schaffneriana</i> var. <i>recurva</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/1201">https://ecos.fws.gov/ecp/species/1201</a>	Endangered
Kearney's Blue-star <i>Amsonia kearneyana</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/7485">https://ecos.fws.gov/ecp/species/7485</a>	Endangered
Nichol's Turk's Head Cactus <i>Echinocactus horizonthalonius</i> var. <i>nicholii</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5343">https://ecos.fws.gov/ecp/species/5343</a>	Endangered
Pima Pineapple Cactus <i>Coryphantha scheeri</i> var. <i>robustispina</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4919">https://ecos.fws.gov/ecp/species/4919</a>	Endangered
Swale Paintbrush <i>Castilleja ornata</i> Population: No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/10121">https://ecos.fws.gov/ecp/species/10121</a>	Proposed Endangered
Wright's Marsh Thistle <i>Cirsium wrightii</i> Population: There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/8963">https://ecos.fws.gov/ecp/species/8963</a>	Threatened
<b>CRITICAL HABITATS</b>	
There are 23 critical habitats wholly or partially within your project area under this office's jurisdiction.	
NAME	STATUS
Acuña Cactus <i>Echinomastus erectocentrus</i> var. <i>acunensis</i> <a href="https://ecos.fws.gov/ecp/species/5785#crithab">https://ecos.fws.gov/ecp/species/5785#crithab</a>	Final
Arizona Eryngo <i>Eryngium sparganophyllum</i> <a href="https://ecos.fws.gov/ecp/species/10705#crithab">https://ecos.fws.gov/ecp/species/10705#crithab</a>	Final
Beardless Chinchweed <i>Pectis imberbis</i> <a href="https://ecos.fws.gov/ecp/species/1348#crithab">https://ecos.fws.gov/ecp/species/1348#crithab</a>	Final
Beautiful Shiner <i>Cyprinella formosa</i> <a href="https://ecos.fws.gov/ecp/species/7874#crithab">https://ecos.fws.gov/ecp/species/7874#crithab</a>	Final
Chiricahua Leopard Frog <i>Rana chiricahuensis</i>	Final

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NAME	STATUS
<a href="https://ecos.fws.gov/ecp/species/1516#crittab">https://ecos.fws.gov/ecp/species/1516#crittab</a>	
Desert Pupfish <i>Cyprinodon macularius</i> <a href="https://ecos.fws.gov/ecp/species/7003#crittab">https://ecos.fws.gov/ecp/species/7003#crittab</a>	Final
Gila Chub <i>Gila intermedia</i> <a href="https://ecos.fws.gov/ecp/species/51#crittab">https://ecos.fws.gov/ecp/species/51#crittab</a>	Final
Huachuca Water-umbel <i>Lilaeopsis schaffneriana var. recurva</i> <a href="https://ecos.fws.gov/ecp/species/1201#crittab">https://ecos.fws.gov/ecp/species/1201#crittab</a>	Final
Jaguar <i>Panthera onca</i> <a href="https://ecos.fws.gov/ecp/species/3944#crittab">https://ecos.fws.gov/ecp/species/3944#crittab</a>	Final
Loach Minnow <i>Tiaroga cobitis</i> <a href="https://ecos.fws.gov/ecp/species/6922#crittab">https://ecos.fws.gov/ecp/species/6922#crittab</a>	Final
Mexican Spotted Owl <i>Strix occidentalis lucida</i> <a href="https://ecos.fws.gov/ecp/species/8196#crittab">https://ecos.fws.gov/ecp/species/8196#crittab</a>	Final
Mount Graham Red Squirrel <i>Tamiasciurus fremonti grahamensis</i> <a href="https://ecos.fws.gov/ecp/species/8370#crittab">https://ecos.fws.gov/ecp/species/8370#crittab</a>	Final
New Mexican Ridge-nosed Rattlesnake <i>Crotalus willardi obscurus</i> <a href="https://ecos.fws.gov/ecp/species/3657#crittab">https://ecos.fws.gov/ecp/species/3657#crittab</a>	Final
Northern Mexican Gartersnake <i>Thamnophis eques megalops</i> <a href="https://ecos.fws.gov/ecp/species/7655#crittab">https://ecos.fws.gov/ecp/species/7655#crittab</a>	Final
Quitobaquito Tryonia <i>Tryonia quitobaquिताe</i> For information on why this critical habitat appears for your project, even though Quitobaquito Tryonia 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/4521#crittab">https://ecos.fws.gov/ecp/species/4521#crittab</a>	Proposed
Razorback Sucker <i>Xyrauchen texanus</i> <a href="https://ecos.fws.gov/ecp/species/530#crittab">https://ecos.fws.gov/ecp/species/530#crittab</a>	Final
San Bernardino Springsnail <i>Pyrgulopsis bernardina</i> <a href="https://ecos.fws.gov/ecp/species/1778#crittab">https://ecos.fws.gov/ecp/species/1778#crittab</a>	Final
Sonora Chub <i>Gila ditaenia</i> <a href="https://ecos.fws.gov/ecp/species/1394#crittab">https://ecos.fws.gov/ecp/species/1394#crittab</a>	Final
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> <a href="https://ecos.fws.gov/ecp/species/6749#crittab">https://ecos.fws.gov/ecp/species/6749#crittab</a>	Final
Spikedace <i>Meda fulgida</i> <a href="https://ecos.fws.gov/ecp/species/6493#crittab">https://ecos.fws.gov/ecp/species/6493#crittab</a>	Final
Yaqui Catfish <i>Ictalurus pricei</i> <a href="https://ecos.fws.gov/ecp/species/5432#crittab">https://ecos.fws.gov/ecp/species/5432#crittab</a>	Final
Yaqui Chub <i>Gila purpurea</i> <a href="https://ecos.fws.gov/ecp/species/3414#crittab">https://ecos.fws.gov/ecp/species/3414#crittab</a>	Final

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NAME	STATUS
Yellow-billed Cuckoo <i>Coccyzus americanus</i> <a href="https://ecos.fws.gov/ecp/species/3911#crittab">https://ecos.fws.gov/ecp/species/3911#crittab</a>	Final

## USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

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

The following FWS National Wildlife Refuge Lands and Fish Hatcheries lie fully or partially within your project area:

FACILITY NAME	ACRES
BUENOS AIRES NATIONAL WILDLIFE REFUGE <a href="https://www.fws.gov/our-facilities?Keywords=%5C%22BUENOS+AIRES+NATIONAL+WILDLIFE+REFUGE%5C%22">https://www.fws.gov/our-facilities?Keywords=%5C%22BUENOS+AIRES+NATIONAL+WILDLIFE+REFUGE%5C%22</a>	945,954.474
BUENOS AIRES NATIONAL WILDLIFE REFUGE <a href="https://www.fws.gov/our-facilities?Keywords=%5C%22BUENOS+AIRES+NATIONAL+WILDLIFE+REFUGE%5C%22">https://www.fws.gov/our-facilities?Keywords=%5C%22BUENOS+AIRES+NATIONAL+WILDLIFE+REFUGE%5C%22</a>	27,281.45
CABEZA PRIETA NATIONAL WILDLIFE REFUGE <a href="https://www.fws.gov/our-facilities?Keywords=%5C%22CABEZA+PRIETA+NATIONAL+WILDLIFE+REFUGE%5C%22">https://www.fws.gov/our-facilities?Keywords=%5C%22CABEZA+PRIETA+NATIONAL+WILDLIFE+REFUGE%5C%22</a>	51.88
SAN BERNARDINO NATIONAL WILDLIFE REFUGE <a href="https://www.fws.gov/our-facilities?Keywords=%5C%22SAN+BERNARDINO+NATIONAL+WILDLIFE+REFUGE%5C%22">https://www.fws.gov/our-facilities?Keywords=%5C%22SAN+BERNARDINO+NATIONAL+WILDLIFE+REFUGE%5C%22</a>	25,644.504

## BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

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

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There are likely bald eagles present in your project area. For additional information on bald eagles, refer to [Bald Eagle Nesting and Sensitivity to Human Activity](#)

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

NAME	BREEDING SEASON
<b>Bald Eagle <i>Haliaeetus leucocephalus</i></b> 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>	Breeds Oct 15 to Aug 31
<b>Golden Eagle <i>Aquila chrysaetos</i></b> 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

**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 "[Supplemental Information on Migratory Birds and Eagles](#)", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

**Probability of Presence (■)**

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

**Breeding Season (■)**

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

**Survey Effort (|)**

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

**No Data (—)**

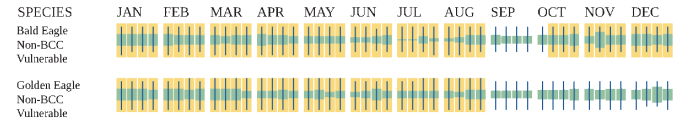
A week is marked as having no data if there were no survey events for that week.

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

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Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

**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<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

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)

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

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NAME	BREEDING SEASON
American Avocet <i>Recurvirostra americana</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/11927">https://ecos.fws.gov/ecp/species/11927</a>	Breeds Apr 21 to Aug 10
Arizona Woodpecker <i>Dryobates arizonae</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/9673">https://ecos.fws.gov/ecp/species/9673</a>	Breeds Apr 10 to Jun 30
Baird's Sparrow <i>Centronyx bairdii</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/5113">https://ecos.fws.gov/ecp/species/5113</a>	Breeds elsewhere
Bald Eagle <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>	Breeds Oct 15 to Aug 31
Bendire's Thrasher <i>Toxostoma bendirei</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/9435">https://ecos.fws.gov/ecp/species/9435</a>	Breeds Mar 15 to Jul 31
Black-chinned Sparrow <i>Spizella atrogularis</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/9447">https://ecos.fws.gov/ecp/species/9447</a>	Breeds Apr 15 to Jul 31
Black-throated Gray Warbler <i>Setophaga nigrescens</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/9584">https://ecos.fws.gov/ecp/species/9584</a>	Breeds May 1 to Jul 20
Broad-tailed Hummingbird <i>Selasphorus platycercus</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/11935">https://ecos.fws.gov/ecp/species/11935</a>	Breeds May 25 to Aug 21
Cactus Wren <i>Campylorhynchus brunneicapillus guttatus</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/8834">https://ecos.fws.gov/ecp/species/8834</a>	Breeds Mar 5 to Sep 30
Cassin's Sparrow <i>Peucaea cassinii</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/9512">https://ecos.fws.gov/ecp/species/9512</a>	Breeds Aug 1 to Oct 10

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NAME	BREEDING SEASON
Chestnut-collared Longspur <i>Calcarius ornatus</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/9437">https://ecos.fws.gov/ecp/species/9437</a>	Breeds elsewhere
Clark's Grebe <i>Aechmophorus clarkii</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/10575">https://ecos.fws.gov/ecp/species/10575</a>	Breeds Jun 1 to Aug 31
Cordilleran Flycatcher <i>Empidonax occidentalis</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/11949">https://ecos.fws.gov/ecp/species/11949</a>	Breeds Apr 25 to Jul 25
Costa's Hummingbird <i>Calypte costae</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/9470">https://ecos.fws.gov/ecp/species/9470</a>	Breeds Jan 15 to Jun 10
Eastern Meadowlark <i>Sturnella magna</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/9455">https://ecos.fws.gov/ecp/species/9455</a>	Breeds Apr 25 to Aug 31
Elegant Trogon <i>Trogon elegans</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/9624">https://ecos.fws.gov/ecp/species/9624</a>	Breeds Apr 1 to Aug 31
Evening Grosbeak <i>Coccothraustes vespertinus</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/9465">https://ecos.fws.gov/ecp/species/9465</a>	Breeds May 15 to Aug 10
Ferruginous Hawk <i>Buteo regalis</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/6038">https://ecos.fws.gov/ecp/species/6038</a>	Breeds Mar 15 to Aug 15
Flammulated Owl <i>Psiloscops flammeolus</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/7728">https://ecos.fws.gov/ecp/species/7728</a>	Breeds May 10 to Aug 15
Gila Woodpecker <i>Melanerpes uropygialis</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/5960">https://ecos.fws.gov/ecp/species/5960</a>	Breeds Apr 1 to Aug 31

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NAME	BREEDING SEASON
Golden Eagle <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
Grace's Warbler <i>Setophaga graciae</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/9514">https://ecos.fws.gov/ecp/species/9514</a>	Breeds May 20 to Jul 20
Henry's Common Nighthawk <i>Chordeiles minor henryi</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/11979">https://ecos.fws.gov/ecp/species/11979</a>	Breeds May 21 to Aug 25
Lawrence's Goldfinch <i>Spinus 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
Leconte's Thrasher <i>Toxostoma lecontei</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/8969">https://ecos.fws.gov/ecp/species/8969</a>	Breeds Feb 15 to Jun 20
Lewis's Woodpecker <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
Long-billed Curlew <i>Numenius americanus</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/5511">https://ecos.fws.gov/ecp/species/5511</a>	Breeds elsewhere
Long-eared Owl <i>asio otus</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/3631">https://ecos.fws.gov/ecp/species/3631</a>	Breeds Mar 1 to Jul 15
Lucifer Hummingbird <i>Calothorax lucifer</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/9576">https://ecos.fws.gov/ecp/species/9576</a>	Breeds Apr 1 to Aug 31
Marbled Godwit <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

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NAME	BREEDING SEASON
Mexican Chickadee <i>Poecile sclateri</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/10585">https://ecos.fws.gov/ecp/species/10585</a>	Breeds Aug 5 to Jul 15
Mexican Whip-poor-will <i>Antrostomus arizonae</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/10680">https://ecos.fws.gov/ecp/species/10680</a>	Breeds May 1 to Aug 20
Mountain Plover <i>Charadrius montanus</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/3638">https://ecos.fws.gov/ecp/species/3638</a>	Breeds elsewhere
Olive-sided Flycatcher <i>Contopus cooperi</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/3914">https://ecos.fws.gov/ecp/species/3914</a>	Breeds May 20 to Aug 31
Phainopepla <i>Phainopepla nitens lepida</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/11973">https://ecos.fws.gov/ecp/species/11973</a>	Breeds Mar 1 to Aug 20
Pinyon Jay <i>Gymnorhinus cyanocephalus</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/9420">https://ecos.fws.gov/ecp/species/9420</a>	Breeds Feb 15 to Jul 15
Plumbeous Vireo <i>Vireo plumbeus</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/11933">https://ecos.fws.gov/ecp/species/11933</a>	Breeds May 10 to Aug 5
Red-faced Warbler <i>Cardellina rubrifrons</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/9578">https://ecos.fws.gov/ecp/species/9578</a>	Breeds May 10 to Jul 15
Scott's Oriole <i>Icterus parisorum</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/11968">https://ecos.fws.gov/ecp/species/11968</a>	Breeds May 21 to Aug 15
Sprague's Pipit <i>Anthus spragueii</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/8964">https://ecos.fws.gov/ecp/species/8964</a>	Breeds elsewhere

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NAME	BREEDING SEASON
Thick-billed Longspur <i>Rhynchophanes mccownii</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/11901">https://ecos.fws.gov/ecp/species/11901</a>	Breeds elsewhere
Varied Bunting <i>Passerina versicolor</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/9725">https://ecos.fws.gov/ecp/species/9725</a>	Breeds Apr 25 to Sep 30
Virginia's Warbler <i>Leiothlypis virginiae</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/9441">https://ecos.fws.gov/ecp/species/9441</a>	Breeds May 1 to Jul 31
Western Grebe <i>aechmophorus occidentalis</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/6743">https://ecos.fws.gov/ecp/species/6743</a>	Breeds Jun 1 to Aug 31
Whiskered Screech-owl <i>Megascops trichopsis</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/10569">https://ecos.fws.gov/ecp/species/10569</a>	Breeds Apr 15 to Jul 31
Willet <i>Tringa semipalmata</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/10669">https://ecos.fws.gov/ecp/species/10669</a>	Breeds elsewhere

**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 "[Supplemental Information on Migratory Birds and Eagles](#)", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

**Probability of Presence (■)**

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

**Breeding Season (■)**

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

**Survey Effort (|)**

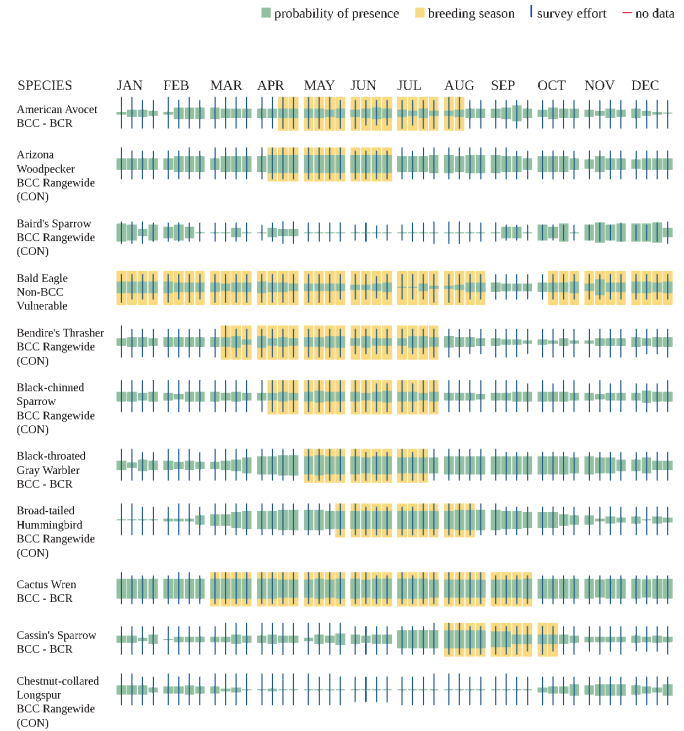
Project code: 2024-0129675

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Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

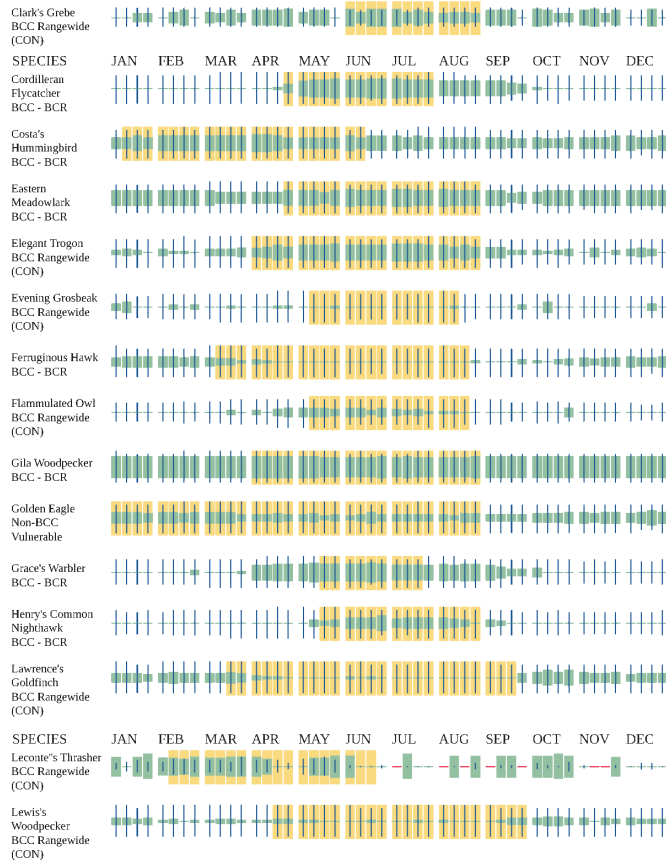
**No Data (-)**

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



Project code: 2024-0129675

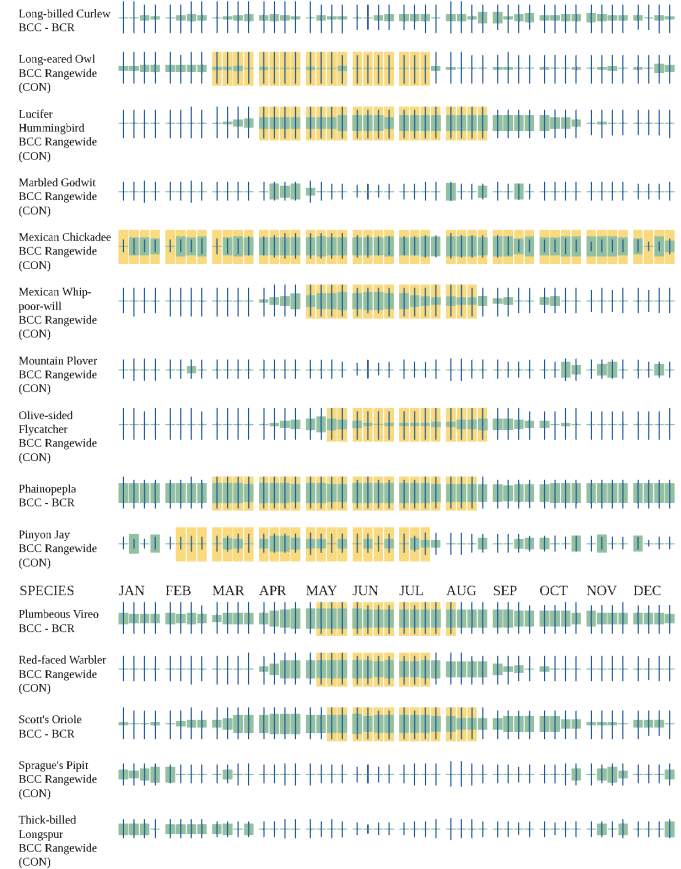
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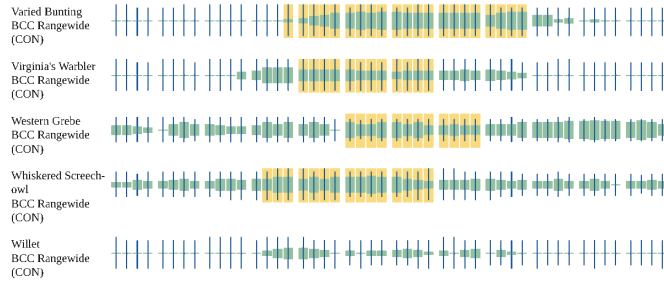
08/13/2024 15:36:41 UTC



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Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

### WETLANDS

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

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

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

Due to your project's size, the list below may be incomplete, or the acreages reported may be inaccurate. For a full list, please contact the local U.S. Fish and Wildlife office or visit <https://www.fws.gov/wetlands/data/mapper.HTML>.

#### FRESHWATER FORESTED/SHRUB WETLAND

- PFO1/SS1A
- PSS1/2A

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- PSS1Ah
- PFO1/SS2C
- PSS2J
- PFO1C
- PSS1/2C
- PSS1/2Ah
- PFO1/SS1C
- PSS1A
- PSS1Ax
- PSSC
- PSS1Cx
- PSS2A
- PFO1/SS2A
- PFOC
- PSS1C
- PSS
- PSS1/2Kx
- PFO1A

#### FRESHWATER POND

- PUBF
- PAB4Fx
- PUB

#### FRESHWATER EMERGENT WETLAND

- PEM1/SS1A
- PEM1Ch
- PEM1J
- PEM1C
- PEM1A
- PEM1Ah
- PEM1B
- PEM1/SS1Ch
- PEM1/SS1C

#### LAKE

- L2UBH
- L2USC
- L1UBH

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**ATTACHMENT 5**  
**POTENTIAL FOR IMPACTS FROM THE PROPOSED ACTION**  
**TO FEDERALLY LISTED SPECIES KNOWN TO OCCUR OR WITH POTENTIAL TO**  
**OCCUR IN THE REGION OF INFLUENCE**

Common Name	Scientific Name	Federal Listing Status	Habitat	Historically Observed at DMAFB?	Potential for Impacts from the Proposed Action/Effects Determination
<b>Mammals</b>					
Ocelot	<i>Leopardus pardalis</i>	FE	The ocelot is a habitat specialist, the species lives in areas of dense cover or vegetation and high prey populations. The ocelot avoids open country.	No	<i>No effect.</i> There have been no historical observations of ocelots on base. Suitable habitat is not present within the proposed ROI/action area (Attachment 1, Base Affected Environment Map).
<b>Birds</b>					
Cactus Ferruginous Pygmy-Owl	<i>Glauclaudium brookianus cactorum</i>	FT	The cactus ferruginous pygmy-owl nests in existing cavities in saguaro cacti. The thickets of palo verde trees, mesquite, and saguaro cactus in and surrounding Atterbury Wash are potential suitable habitat.	No	<i>No effect.</i> The cactus ferruginous pygmy-owl has not been observed on DMAFB, but thickets of palo verde trees, mesquite, and saguaro cactus are present. Potential suitable habitat would not be impacted under implementation of the Proposed Action.
California Least Tern	<i>Sterna antillarum breweri</i>	FE	California least terns nest on barren to sparsely vegetated sandbars along rivers, sand and gravel pits, lake and reservoir shorelines, and occasionally on gravel rooftops.	No	<i>No effect.</i> There have been no historical observations of these federally listed bird species on base, and no suitable habitat is present within the ROI (Attachment 1, Base Affected Environment Map).
Yellow-Billed Cuckoo	<i>Coccyzus americanus</i>	FT	Yellow-billed cuckoos prefer streamside cottonwood, willow groves, and large mesquite bosques for migrating and breeding in Arizona. The species is rarely observed as transient in xeric desert or urban settings.	No	Preliminary analysis indicates noise levels from these operations could be slightly higher or similar to noise levels associated with the existing aircraft. Increases in noise levels are not anticipated to be significant.
<b>Reptiles &amp; Amphibians</b>					
Sonoyta Mud Turtle	<i>Kinosternon sonoriense longfemorale</i>	FE	The Sonoyta mud Turtle is found only in the Quitobaquito Pond in Arizona and a few isolated sites in Sonora, Mexico.	No	<i>No effect.</i> There have been no historical observations of Sonoyta mud turtles on base. Lack of suitable habitat is present within the ROI (Attachment 1, Base Affected Environment Map).
<b>Fish</b>					
Gila Chub	<i>Gila intermedia</i>	FE	The Gila chub occupies cool-to-warm water in mid- to headwater stretches of mid-sized streams of the Gila River Basin. The species is often found in deep, near-shore pools adjacent to swift riffles.	No	<i>No effect.</i> There have been no historical observations of these federally listed fish species on base. Lack of suitable habitat is present within the ROI (Attachment 1, Base Affected Environment Map).

Common Name	Scientific Name	Federal Listing Status	Habitat	Historically Observed at DMAFB?	Potential for Impacts from the Proposed Action/Effects Determination
			and runs and near obstructions. Cover consists of root wads, boulders, undercut banks, submerged organic debris, or deep water.		
Gila Topminnow	<i>Poeciliopsis occidentalis</i>	FE	The Gila topminnow occupies headwater springs and vegetated margins and backwater areas of intermittent and perennial streams and rivers. The species prefers shallow warm water in a moderate current with dense aquatic vegetation and alga mats. Gila topminnows can withstand a wide range of water temperatures and water chemistries.	No	
<b>Insects</b>					
Monarch Butterfly	<i>Danox plexippus</i>	C	Monarch butterflies feed on nectar from many flower species but breed only where there are milkweed species ( <i>Asclepias</i> spp.). A number of monarchs from the western population overwinters at Arizona sites and require moisture for hydration, defense against freezing temperatures, and protection against strong winds. Migrating monarchs occur near water sources.	No	<i>No effect.</i> The Monarch butterflies may occur as transient species between October and April (Arizona is within the migration path for both the western and eastern populations). Milkweeds are the only plants that monarch butterflies will lay their eggs on. Milkweed species would not be impacted under implementation of the Proposed Action.
<b>Plants</b>					
Arizona Eryngo	<i>Eryngium sparganophyllum</i>	FE	The Arizona eryngo occurs in spring-fed aridland cienegs of the International Four Corners Region. As a wetland obligate species, the plant only occurs at two sites in Pima County.	No	<i>No effect.</i> There have been no historical observations of these federally listed plant species on base. Lack of suitable habitat is present within the ROI (Attachment 1, Base Affected Environment Map).
Huachuca Water-Umbel	<i>Lilaeopsis schaffneriana</i> var. <i>recurva</i>	FE	Huachuca water-umbel habitat consists of cienegs or marsh wetlands at elevations between 2,000 and 6,000 feet MSL, within Sonoran Desert scrub, grassland or oak woodland, and conifer forest. The species can be found in sites with shallow water, saturated soil near seeps, springs,	No	

Common Name	Scientific Name	Federal Listing Status	Habitat	Historically Observed at DMAFB?	Potential for Impacts from the Proposed Action/Effects Determination
			and streams. The water-umbel requires perennial water, gentle stream gradients, and mild winters.		
Pima Pineapple Cactus	<i>Coryphantha scheeri</i> var. <i>robustispina</i>	FE	Pima pineapple cactus habitat consists of ridges in semidesert grassland and alluvial fans in Sonoran desert scrub. The cactus does occur at several localities several miles from the base.	No	<i>No effect.</i> No historical observations of Pima pineapple cactus have been documented on base. Although Sonoran desert scrub is widespread in the undeveloped areas of the installation, no suitable habitat is present within the ROI (Attachment 1, Base Affected Environment Map).

*Note:* Species-specific analyses and effects determination rationales for airspace affected environment were not carried forward for analysis. When compared to interim conditions, no changes to the lands beneath the airspace would occur; ground disturbance beneath the airspace proposed for use would be limited to the use of bases and runways, which would be less than what is currently being used by A-10 pilots from DMAFB and would only occur in areas and at altitudes that are currently approved for such use. No significant impacts to plants or animals would result from implementation of the Proposed Action in the airspace and ranges proposed for use.  
 Key: AFB = Air Force Base; FE = federally endangered; FT = federally threatened; MSL = mean sea level; ROI = region of influence; spp. = species (plural); var. = variety.  
 Sources: USFWS 1998, 2015, 2016, 2017a, b, 2018, 2020a, b, 2021, 2022a, b, 2024; DAF 2020, 2023, 2024; DBG, 2024; Arizona Bird Conservation Initiative and Sonoran Joint Venture, 2023

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