

THE WILDLIFE SOCIETY CALIFORNIA NORTH COAST CHAPTER



March 22, 2019

The Honorable Mr. Huffman
United States House of Representatives
1527 Longworth House Office Building
Washington, D.C. 20515-0306

Dear Representative Huffman:

As President of the California North Coast Chapter of The Wildlife Society, I would like to bring environmental issues associated with the “Border Wall” to your attention. There are approximately 119 wildlife professionals who are members of the California North Coast Chapter of The Wildlife Society, and we are organized as a unit of a national organization. The Wildlife Society (TWS; wildlife.org) is an international non-profit scientific and educational association, representing over 15,000 wildlife biologists and managers, dedicated to excellence in wildlife stewardship through science and education. Our mission is to enhance the ability of wildlife professionals and wildlife students to conserve biodiversity, sustain productivity, and ensure responsible use of wildlife resources and habitats. The California North Coast Chapter is part of the Western Section of The Wildlife Society, which is comprised of 8 local Chapters, representing over 1,000 professional wildlife managers, biologists, ecologists, botanists, and students from California, Hawaii, Nevada, and Guam – all devoted to the sustainable conservation of wildlife and wildlife habitat in the western United States.

We are writing to provide our expert opinion about the ecological impacts of the Administration’s proposed Border Wall.

We recognize that the United States has the right and responsibility to secure its borders against entry by terrorists, smugglers, and others engaged in illegal activities, but some border security measures can have a deleterious impact on wildlife. Section 102(c) of the Real ID Act of 2005 allows the Secretary of Homeland Security to treat construction of roads and barriers along U.S. borders as exempt from all federal, state, and local environmental laws, including the Endangered Species Act and the National Environmental Policy Act. Waiving environmental analysis for border security measures means there is no opportunity to assess impacts to wildlife and habitats, or to design or adopt reasonable mitigations that could avoid or reduce impacts while still achieving border security objectives.

As scientists who specialize in studying wildlife population dynamics and animal behavior, we know that impermeable barriers placed in sensitive habitats can limit and disrupt the established demographic and genetic interchange among wildlife populations, disrupt normal seasonal movements of wildlife populations, and reduce the ability of species to shift ranges in response to local weather conditions and, ultimately, to climate change.

In our opinion, Congress correctly prohibited funding for border wall construction in the Santa Ana National Wildlife Refuge in the FY2018 Budget. We encourage you to consider that the border region contains at least eleven U.S. and three Mexican designated conservation areas, including wildlife refuges, national parks, Globally Important Bird Areas, and biosphere reserves. While the Santa Ana Wildlife Refuge has been called “the crown jewel” of the National Wildlife Refuge System, other areas along our border are equally important. Therefore, we recommend that the environmental impacts of any border wall or fence be viewed with respect to the entire region – not just individual protected areas.

The U.S.-Mexico border region hosts a variety of fragile ecosystems that support diverse populations of wildlife species that depend on the ability to move throughout the border region to survive. The proposed Border Wall would bisect these ecosystems and habitats along the U.S.-Mexico border, which are home to diverse populations of mammals, birds, amphibians, reptiles, and plants, including the iconic American roadrunner and saguaro cactus, as well as cougars, desert bighorn sheep, the endangered North American jaguar and the ocelot. By bisecting these ecosystems, the Border Wall would not only have enormous ramifications on the eco-tourism industry (according to the U.S. Fish and Wildlife Service, nature tourism brings approximately \$300 million annually into the local economy of the Rio Grande Valley), but would impact the over 2 million visitors from around the world who visit these ecosystems along the border with Mexico. But, from a wildlife professional perspective, we are most concerned about the impact that an impenetrable wall would have on the over 100 endangered species and several hundred migratory bird species. An additional list of special-status wildlife species that could be negatively impacted by the Border Wall is attached. Some of the species that could be adversely impacted by the Border Wall are:

- **Ocelot:** Five ocelots have been detected in southern Arizona in recent years. Like the jaguar, they are migrating into the United States from Mexico, and a wall would halt their northward dispersal.
- **Mexican gray wolf:** A smaller subspecies of the gray wolf, the lobo, is listed as endangered, with a scant 100 wild animals living in Arizona and New Mexico and just several dozen in Sonora and Chihuahua. A border wall would eliminate any chance of the two populations connecting and preserving genetic diversity.
- **Pronghorn:** The fastest land mammal in North America should have no problem navigating the Normandy barriers that stretch across much of the border. But the animal is notoriously skittish, and biologists worry that the Border Patrol's road building and frequent SUV and ATV patrols are disturbing its habitat.
- **Bison:** The national mammal of the United States once inhabited the grasslands of the Chihuahuan Desert. Today, a small remnant herd roams the New Mexico borderlands. Some animals have been spotted trying to climb over border fencing to get to forage and water.

With the above concerns in mind, the California North Coast Chapter of The Wildlife Society requests that border security be implemented with consideration for the impacts to important wildlife species and their habitats. Crucial wildlife habitats and migration corridors should be avoided to the greatest extent feasible to enable protecting, studying, and researching the unique ecosystems; rare, threatened, and endangered species; and ecological processes in the border region. Consistent with The Wildlife Society's

position statement on “The Impact of Border Security Measures on Wildlife,” we reiterate the following policy recommendations:

1. Recommend that Congress repeal section 102(c) of the Real ID Act of 2005, so that the construction of roads and barriers along US borders are no longer exempt from all federal, state, and local environmental laws.
2. Support new legislation to require the Department of Homeland Security to (a) determine the effects that border security structures and operations will have on wildlife and explore alternatives to impermeable fences, and (b) require compliance with environmental laws.
3. Request that the Secretary of Interior (through the Director of the US Fish and Wildlife Service) and the Secretary of Homeland Security identify and implement measures that will mitigate negative impacts of existing and potential border security structures to wildlife.
4. Request that the Secretary of Homeland Security issue a moratorium on further construction of fences along the U.S.-Mexico border to allow the Secretary and the Director of the U.S. Fish and Wildlife Service to investigate and consider reasonable alternatives to an impenetrable barrier. Study and mitigation are needed not only for physical barriers but also for patrol activities, manipulation of vegetation, and the virtual fence under construction along some portions of the U.S.-Mexico border.
5. Support research on alternatives to impermeable fences, such as combinations of vehicle barriers, electronic surveillance (including a variety of electronic sensors and aerial or land monitoring devices), and various designs of crossing structures that allow permeability through a constructed barrier. Successful alternatives should be used as models in other areas as appropriate.
6. Support research on the impacts to wildlife stemming from other border security measures, including stadium lighting, wide swaths cleared of vegetation, and patrol by vehicles and low-flying aircraft.
7. Support adequate funding for and implementation of projects to reduce damage to borderland wildlife and habitat.

We urge you to consider the above concerns regarding the proposed Border Wall and request environmental review and oversight for this proposal.

If you would like any assistance or additional information, please contact

Scott Frazer, genescottf@gmail.com or Kent Barnes, the Conservation Affairs Representatives of The Wildlife Society - North Coast Chapter.

Sincerely,

A handwritten signature in cursive script, appearing to read "Genevieve Ryzman".

Genevieve Rozhon, Wildlife Biologist
The Wildlife Society - North Coast Chapter President
The Wildlife Society

Special-status Wildlife Species Currently Impacted or Likely to Be Impacted by the U.S./Mexico Border Wall

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Global Rank*</u>
<i>Idionycteris phyllotis</i>	Allen's Big-eared Bat	None	G4
<i>Taxidea taxus</i>	American Badger	None	G5
<i>Castor canadensis</i>	American Beaver	None	G5
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	None	G4T4
<i>Antilocapra americana americana</i>	American Pronghorn	None	G5
<i>Lepus alleni</i>	Antelope Jackrabbit	None	G5
<i>Vireo bellii arizonae</i>	Arizona Bell's Vireo	None	G5TU
<i>Peucaea botterii arizonae</i>	Arizona Botteri's Sparrow	None	G4T4
<i>Ammodramus savannarum ammolegus</i>	Arizona Grasshoper Sparrow	None	G5TU
<i>Perognathus amplus</i>	Arizona Pocket Mouse	None	G5
<i>Picoides arizonae</i>	Arizona Woodpecker	None	G5
<i>Anaxyrus californicus</i>	Arroyo Toad	Endangered	G2G3
<i>Sialia sialis fulva</i>	Azure Bluebird	None	G5TU
<i>Masticophis fuliginosus</i>	Baja California Coachwhip	None	G5
<i>Haliaeetus leucocephalus</i>	Bald Eagle	None	G5
<i>Dipodomys spectabilis</i>	Banner-tailed Kangaroo Rat	None	G5
<i>Coleonyx switaki</i>	Barefoot Gecko	None	G4
<i>Craugastor augusti</i>	Barking Frog	None	G5
<i>Cyprinella formosa</i>	Beautiful Shiner	None	G3
<i>Passerculus sandwichensis beldingi</i>	Belding's Savannah Sparrow	None	G5T3
<i>Gambusia gaigei</i>	Big Bend Gambusia	Endangered	G1

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Global Rank*</u>
<i>Nyctinomops macrotis</i>	Big Free-tailed Bat	None	G5
<i>Polioptila nigriceps</i>	Black-capped Gnatcatcher	None	G5
<i>Polioptila melanura</i>	Black-tailed Gnatcatcher	None	G5
<i>Cynomys ludovicianus</i>	Black-tailed Prairie Dog	None	G4
<i>Lampornis clemenciae</i>	Blue-throated Hummingbird	None	G5
<i>Cynanthus latirostris</i>	Broad-billed Hummingbird	None	G5
<i>Oxyeblis aeneus</i>	Brown Vinesnake	None	G5
<i>Caprimulgus ridgwayi</i>	Buff-collared Nightjar	None	G5
<i>Athene cunicularia</i>	Burrowing Owl	None	G4
<i>Glaucidium brasilianum cactorum</i>	Cactus Ferruginous Pygmy-owl	None	G5T2
<i>Laterallus jamaicensis coturniculus</i>	California Black Rail	None	G3G4T1
<i>Gymnogyps californianus</i>	California Condor	Endangered	G1
<i>Arizona elegans occidentalis</i>	California Glossy Snake	None	G5T2
<i>Eremophila alpestris actia</i>	California Horned Lark	None	G5T4Q
<i>Macrotus californicus</i>	California Leaf-nosed Bat	None	G4
<i>Sternula antillarum browni</i>	California Least Tern	Endangered	G4T2T3Q
<i>Aspidoscelis burti</i>	Canyon Spotted Whiptail	None	G4
<i>Myotis velifer</i>	Cave Myotis	None	G4G5
<i>Tantilla wilcoxi</i>	Chihuahuan Black-headed Snake	None	G4
<i>Rana chiricahuensis</i>	Chiricahua Leopard Frog	Threatened	G2G3
<i>Phrynosoma blainvillii</i>	Coast Horned Lizard	None	G3G4
<i>Salvadora hexalepis virgultea</i>	Coast Patch-nosed Snake	None	G5T4
<i>Campylorhynchus brunneicapillus sandiegensis</i>	Coastal Cactus Wren	None	G5T3Q

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Global Rank*</u>
<i>Polioptila californica californica</i>	Coastal California Gnatcatcher	Threatened	G4G5T2Q
<i>Aspidoscelis tigris stejnegeri</i>	Coastal Whiptail	None	G5T5
<i>Notiosorex cockrumi</i>	Cockrum's Desert Shrew	None	None
<i>Uma notata</i>	Colorado Desert Fringe-toed Lizard	None	G3
<i>Neotoma albigula venusta</i>	Colorado Valley Woodrat	None	G5T3T4
<i>Stygoparnus comalensis</i>	Comal Springs Dryopid Beetle	Endangered	G1G2
<i>Heterelmis comalensis</i>	Comal Springs Riffle Beetle	Endangered	G1
<i>Cyprinoden elegans</i>	Comanche Springs Pupfish	Endangered	G1
<i>Chordeiles minor</i>	Common Nighthawk	None	G5
<i>Accipiter cooperii</i>	Cooper's Hawk	None	G5
<i>Gambelia copeii</i>	Cope's Leopard Lizard	None	G5
<i>Plestiodon skiltonianus interparietalis</i>	Coronado Skink	None	G5T5
<i>Odocoileus virginianus couesi</i>	Coues Whitetail Deer	None	None
<i>Ovis canadensis mexicana</i>	Desert Bighorn Sheep	None	G4T3T4Q
<i>Cyprinodon macularius</i>	Desert Pupfish	Endangered	G1
<i>Progne subis hesperia</i>	Desert Purple Martin	None	G5T4
<i>Gopherus agassizii</i>	Desert Tortoise	Threatened	G3
<i>Dionda diaboli</i>	Devils River Minnow	Threatened	G1
<i>Pseudotryonia adamantina</i>	Diamond Tryonia	Endangered	G1
<i>Gammarus hyalleloides</i>	Diminutive Amphipod	Endangered	G1
<i>Chaetodipus californicus femoralis</i>	Dulzura Pocket Mouse	None	G5T3
<i>Myiarchus tuberculifer</i>	Dusky-capped Flycatcher	None	G5
<i>Trogon elegans</i>	Elegant Trogon	None	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Global Rank*</u>
<i>Coccothraustes vespertinus</i>	Evening Grosbeak	None	G5
<i>Buteo regalis</i>	Ferruginous Hawk	None	G4
<i>Amphispiza quinquestriata</i>	Five-striped Sparrow	None	G4
<i>Phrynosoma mcallii</i>	Flat-Tailed Horned Lizard	None	G3
<i>Etheostoma fonticola</i>	Fountain Darter	Endangered	G1
<i>Big Bend gambusia</i>	Gambusia Gaigei	None	G1
<i>Gila intermedia</i>	Gila Chub	Endangered	G2
<i>Heloderma suspectum</i>	Gila Monster	None	G4
<i>Poeciliopsis occidentalis</i>	Gila Topminnow	Endangered	G3
<i>Melanerpes uropygialis</i>	Gila Woodpecker	None	G5
<i>Colaptes chrysoides</i>	Gilded Flicker	None	G5
<i>Coelus globosus</i>	Globose Dune Beetle	None	G1G2
<i>Aquila chrysaetos</i>	Golden Eagle	None	G5
<i>Quadrula aurea</i>	Golden Orb	Candidate	G1
<i>Dendroica chrysoparia</i>	Golden-cheeked Warbler	Endangered	G2
<i>Tryonia circumstriata</i>	Gonzales Tryonia	Endangered	G1
<i>Phrynosoma goodei</i>	Goode's Horned Lizard	None	G3G4
<i>Meleagris gallopavo mexicana</i>	Gould's Turkey	None	None
<i>Senticolis triaspis</i>	Green Ratsnake	None	G5
<i>Chelonia mydas</i>	Green Turtle	Threatened	G3
<i>Herpailurus yagouaroundi</i>	Gulf Coast Jaguarundi	Endangered	G4T3
<i>Ammospermophilus harrisi</i>	Harris' Antelope Squirrel	None	G5
<i>Lycaena hermes</i>	Hermes Copper Butterfly	None	G1

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Global Rank*</u>
<i>Lasiurus cinereus</i>	Hoary Bat	None	G5
<i>Hypsiglena species novum</i>	Hooded Nightsnake	None	G4
<i>Panthera onca</i>	Jaguar	Endangered	G3
<i>Vulpes macrotis</i>	Kit Fox	None	G4
<i>Pyrgus ruralis lagunae</i>	Laguna Mountains Skipper	Endangered	G5T1
<i>Toxostoma lecontei</i>	Le Conte's Thrasher	None	G4
<i>Vireo bellii pusillus</i>	Least Bell's Vireo	Endangered	G5T2
<i>Dermochelys coriacea</i>	Leatherback Sea Turtle	Endangered	G2
<i>Cyprinodon bovinus</i>	Leon Springs Pupfish	Endangered	G1
<i>Leptonycteris yerbabuenae</i>	Lesser Long-nosed Bat	Delisted	G3
<i>Rallus obsoletus levipes</i>	Light-footed Ridgway'S Rail	Endangered	G5T1T2
<i>Melospiza lincolni</i>	Lincoln's Sparrow	None	G5
<i>Tiaroga cobitis</i>	Loach Minnow	Endangered	G2
<i>Asio otus</i>	Long-eared Owl	None	G5
<i>Agosia chrysogaster</i>	Longfin Dace	None	G4
<i>Smilisca fodiens</i>	Lowland Burrowing Toad	None	G4
<i>Rana yavapaiensis</i>	Lowland Leopard Frog	None	G4
<i>Eugenes gulgens</i>	Magnificent Hummingbird	None	None
<i>Maritime Succulent Scrub</i>	Maritime Succulent Scrub	None	G2
<i>Colinus virginianus ridgwayi</i>	Masked Bobwhite	Endangered	G5T1
<i>Meda fulgida</i>	Meda Fulgida	Endangered	G2
<i>Prietella phreatophila</i>	Mexican Blindcat	Endangered	GNR
<i>Tadarida brasiliensis</i>	Mexican Free-tailed Bat	None	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Global Rank*</u>
<i>Canis lupus baileyi</i>	Mexican Gray Wolf	Endangered	G4G5T1
<i>Leptonycteris nivalis</i>	Mexican Long-nosed Bat	Endangered	G3
<i>Choeronycteris mexicana</i>	Mexican Long-tongued Bat	None	G4
<i>Lichanura trivirgata trivirgata</i>	Mexican Rosy Boa	None	G4G5
<i>Strix occidentalis lucida</i>	Mexican Spotted Owl	Endangered	G3G4T3T4
<i>Tryonia imitator</i>	Mimic Tryonia	None	G2
<i>Danaus plexippus pop. 1</i>	Monarch - California Overwintering Population	None	G4T2T3
<i>Charadrius montanus</i>	Mountain Plover	None	G3
<i>Glaucidium gnoma gnoma</i>	Mountain Pygmy-owl	None	G4G5T4T5
<i>Thamnophis rufipunctatus</i>	Narrow-headed Gatersnake	Threatened	G3G4
<i>Crotalus willardi obscurus</i>	New Mexican Ridge-nosed Rattlesnake	Threatened	G5T1T2
<i>Thamnophis eques megalops</i>	Norther Mexican Gartersnake	Threatened	G4T3
<i>Falco femoralis septentrionalis</i>	Northern Aplomado Falcon	Endangered	G4T2
<i>Empidonax fulvifrons pygmaeus</i>	Northern Buff-breasted Flycatcher	None	G5T5
<i>Circus hudsonius</i>	Northern Harrier	None	G5
<i>Chaetodipus fallax fallax</i>	Northwestern San Diego Pocket Mouse	None	G5T3T4
<i>Leopardus pardalis</i>	Ocelot	Endangered	G4
<i>Aspidoscelis hyperythra</i>	Orange-throated Whiptail	None	G5
<i>Terrapene ornata</i>	Ornate Box Turtle	None	G5T5
<i>Perognathus longimembris pacificus</i>	Pacific Pocket Mouse	Endangered	G5T1
<i>Troglodytes pacificus</i>	Pacific Wren	None	G5
<i>Corynorhinus townsendii pallescens</i>	Pale Townsend's Big-Eared Bat	None	G3G4T3T4
<i>Antrozous pallidus</i>	Pallid Bat	None	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Global Rank*</u>
<i>Chaetodipus fallax pallidus</i>	Pallid San Diego Pocket Mouse	None	G5T34
<i>Stygobromus pecki</i>	Peck's Cave Amphipod	Endangered	G1G2
<i>Gammarus pecos</i>	Pecos Amphipod	Endangered	G1
<i>Assiminea pecos</i>	Pecos Assiminea Snail	Endangered	G1
<i>Gambusia nobillis</i>	Pecos Gambusia	Endangered	G2
<i>Ovis canadensis nelsoni pop. 2</i>	Peninsular Bighorn Sheep	Endangered	G4T3Q
<i>Pyrgulopsis texana</i>	Phantom Springsnail	Endangered	G1
<i>Tryonia cheatumi</i>	Phanton Tryonia	Endangered	G1
<i>Charadrius melodus</i>	Piping Plover	Threatened	G3
<i>Rana blairi</i>	Plain's Leopard Frog	None	G5
<i>Nyctinomops femorosaccus</i>	Pocketed Free-tailed Bat	None	G4
<i>Falco mexicanus</i>	Prairie Falcon	None	G5
<i>Euphydryas editha quino</i>	Quino Checkerspot Butterfly	Endangered	G5T1T2
<i>Cyprinodon eremus</i>	Quitobaquito Pupfish	Endangered	G1
<i>Xyrauchen taxanus</i>	Razorback Sucker	Endangered	G1
<i>Calidris canutus rufa</i>	Red Knot	Threatened	G4T2
<i>Amazona viridigenalis</i>	Red-crowned Parrot	Candidate	G2
<i>Crotalus ruber</i>	Red-diamond Rattlesnake	None	G4
<i>Phrynosoma solare</i>	Regal Horned Lizard	None	G5
<i>Hybognathus amarus</i>	Rio Grande Silvery Minnow	Experimental	G1
<i>Streptocephalus woottoni</i>	Riverside Fairy Shrimp	Endangered	G1G2
<i>Peromyscus nasutus</i>	Rock Mouse	None	G5
<i>Crotalus lepidus</i>	Rock Rattlesnake	None	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Global Rank*</u>
<i>Pachyramphus aglaiae</i>	Rose-throated Bechard	None	G4G5
<i>Peucaea carpalis</i>	Rufous-winged Sparrow	None	G4
<i>Phyllorhynchys browni</i>	Saddled Leaf-nosed Snake	None	G5
<i>Pyrgulopsis bernardina</i>	San Bernardino Springsnail	Threatened	G1
<i>Coleonyx variegatus abbotti</i>	San Diego Banded Gecko	None	G5T3T4
<i>Lepus californicus bennettii</i>	San Diego Black-tailed Jackrabbit	None	G5T3T4
<i>Neotoma lepida intermedia</i>	San Diego Desert Woodrat	None	G5T3T4
<i>Branchinecta sandiegonensis</i>	San Diego Fairy Shrimp	Endangered	G2
<i>Diadophis punctatus similis</i>	San Diego Ringneck Snake	None	G5T2T3
<i>Eurycea nana</i>	San Marcos Salamander	Threatened	G1
<i>Cicindela hirticollis gravida</i>	Sandy Beach Tiger Beetle	None	G5T2
<i>Passerculus sandwichensis</i>	Savannah Sparrow	None	G5
<i>Cicindela senilis frosti</i>	Senile Tiger Beetle	None	G2G3T1T3
<i>Sceloporus slevini</i>	Slevin's Bunchgrass Lizard	None	G4
<i>Gila ditaenia</i>	Sonora Chub	Threatened	G2G3
<i>Ambystoma tigrinum stebbinsi</i>	Sonora Tiger Salamander	Endangered	G5T1
<i>Crotaphytus nebrius</i>	Sonoran Collared Lizard	None	G4
<i>Micruroides euryxanthus</i>	Sonoran Coralsnake	None	G5
<i>Incilius alvarius</i>	Sonoran Desert Toad	None	G5
<i>Bufo retiformis</i>	Sonoran Green Toad	None	G4
<i>Kinosternon sonoriense</i>	Sonoran Mud Turtle	None	G4
<i>Antilocapra americana sonoriensis</i>	Sonoran Pronghorn	Endangered	G5T1
<i>Chionactis pararostris</i>	Sonoran Shovel-nosed Snake	None	G3G4

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Global Rank*</u>
<i>Sonorella magdalenensis</i>	Sonoran Talussnail	None	G2G3
<i>Masticophis bilineatus</i>	Sonoran Whipsnake	None	G5
<i>Anniella stebbinsi</i>	Southern California Legless Lizard	None	G3
<i>Aimophila ruficeps canescens</i>	Southern California Rufous-crowned Sparrow	None	G5T3
<i>Onychomys torridus ramona</i>	Southern Grasshopper Mouse	None	G5T3
<i>Thomomys umbrinus intermedius</i>	Southern Pocket Gopher	None	G5
<i>Empidonax traillii extimus</i>	Southwestern Willow Flycatcher	Endangered	G5T2
<i>Euderma maculatum</i>	Spotted Bat	None	G4
<i>Anthus spragueii</i>	Sprague's Pipit	None	G3G4
<i>Myiodynastes luteiventris</i>	Sulphur-bellied Flycatcher	None	G5
<i>Rana tarahumarae</i>	Tarahumara Frog	None	G1G3
<i>Typhlomolge rathbuni</i>	Texas Blind Salamander	Endangered	G1
<i>Popenaias popeii</i>	Texas Hornshell	Endangered	G1
<i>Tyrannus crassirostris</i>	Thick-billed Kingbird	None	G5
<i>Callophrys thornei</i>	Thorne's Hairstreak	None	G1
<i>Gyalopion quadrangulare</i>	Thornscrub Hock-nosed Snake	None	G4
<i>Crotalus tigris</i>	Tiger Rattlesnake	None	G5
<i>Corynorhinus townsendii</i>	Townsend's Big-eared Bat	None	G3G4
<i>Agelaius tricolor</i>	Tricolored Blackbird	None	G2G3
<i>Thamnophis hammondi</i>	Two-striped Gartersnake	None	G4
<i>Eumops underwoodi</i>	Underwood's Mastiff Bat	None	G4
<i>Chilomeniscus stramineus</i>	Variable Sandsnake	None	G5
<i>Pyrocephalus rubinus</i>	Vermilion Flycatcher	None	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Global Rank*</u>
<i>Amazilia violiceps</i>	Violet-crowned Hummingbird	None	G5
<i>Panoquina errans</i>	Wandering Skipper	None	G4G5
<i>Cicindela latesignata latesignata</i>	Western Beach Tiger Beetle	None	G2G4T1T2
<i>Lampropeltis getula nigrita</i>	Western Black Kingsnake	None	None
<i>Athene cunicularia hypugaea</i>	Western Burrowing Owl	None	G4T4
<i>Ammodramus savannarum perpallidus</i>	Western Grasshopper Sparrow	None	G5TNR
<i>Eumops perotis californicus</i>	Western Mastiff Bat	None	G5T4
<i>Emys marmorata</i>	Western Pond Turtle	None	G3G4
<i>Lasiurus blossevillii</i>	Western Red Bat	None	G5
<i>Myotis ciliolabrum</i>	Western Small-footed Myotis	None	G5
<i>Charadrius nivosus nivosus</i>	Western Snowy Plover	Threatened	G3T3
<i>Spea hammondi</i>	Western Spadefoot	None	G3
<i>Cicindela gabbii</i>	Western Tidal-flat Tiger Beetle	None	G2G4
<i>Lasiurus xanthinus</i>	Western Yellow Bat	None	G5
<i>Coccyzus americanus occidentalis</i>	Western Yellow-billed Cuckoo	Threatened	G5T2T3
<i>Megascops trichopsis</i>	Whiskered Screech-Owl	None	G5
<i>Grus americana</i>	Whooping Crane	Endangered	G1
<i>Aix sponsa</i>	Wood Duck	None	G5
<i>Perognathus amplus cineris</i>	Wupatki Arizona Pocket Mouse	None	G5T2?
<i>Tantilla yaquia</i>	Yaqui Black-headed Snake	None	G4
<i>Ictalurus pricei</i>	Yaqui Catfish	Threatened	G2
<i>Gila purpurea</i>	Yaqui Chub	Endangered	G1
<i>Setophaga petechia</i>	Yellow Warbler	None	G5
<i>Icteria virens</i>	Yellow-breasted Chat	None	G5

<u>Scientific Name</u>	<u>Common Name</u>	<u>Federal Status</u>	<u>Global Rank*</u>
<i>Junco phaeonotus</i>	Yellow-eyed Junco	None	G5
<i>Rallus longirostris yumanensis</i>	Yuma Clapper Rail	Endangered	G5T3
<i>Sigmodon hispidus eremicus</i>	Yuma Hispid Cotton Rat	None	G5T2T3
<i>Myotis yumanensis</i>	Yuma Myotis	None	G5
<i>Rallus obsoletus yumanensis</i>	Yuma Ridgway'S Rail	Endangered	G5T3
<i>Uma rufopunctata</i>	Yuman Desert Fringe-Toed Lizard	None	G3

***Global Rankings Key:**

GX

Presumed Extinct (species)— Not located despite intensive searches and virtually no likelihood of rediscovery.

Eliminated (ecological communities)— Eliminated throughout its range, with no restoration potential due to extinction of dominant or characteristic species.

GH

Possibly Extinct (species)— Missing; known from only historical occurrences but still some hope of rediscovery.

Presumed Eliminated— (Historic, ecological communities)-Presumed eliminated throughout its range, with no or virtually no likelihood that it will be rediscovered, but with the potential for restoration, for example, American Chestnut (Forest).

G1	Critically Imperiled —At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
G2	Imperiled —At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
G3	Vulnerable —At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
G4	Apparently Secure —Uncommon but not rare; some cause for long-term concern due to declines or other factors.
G5	Secure —Common; widespread and abundant. However, may have special status at state or region levels.
G#G#	Range Rank —A numeric range rank (e.g., G2G3) is used to indicate the range of uncertainty in the status of a species or community. Ranges cannot skip more than one rank (e.g., GU should be used rather than G1G4).
GNR	Unranked —Global rank not yet assessed.