

Appendix A - RIO ARRIBA COUNTY WILDLIFE SPECIES

All Species Rio Arriba

<u>Taxonomic Group</u>	<u># Species</u>	<u>Taxonomic Group</u>	<u># Species</u>
Amphibians	12	Birds	256
Coleoptera; beetles	19	Crustaceans	4
Ephemeroptera; mayflies	19	Fish	33
Lepidoptera; moths and butterflies	156	Mammals	89
Misc. Arachnids	7	Molluscs	22
Odonata; dragonflies	56	Orthoptera; grasshoppers & crickets	63
Reptiles	29	Spiders	9

TOTAL SPECIES: 774

<u>Common Name</u>	<u>Scientific Name</u>	<u>NMGE</u>	<u>USFWS</u>	<u>Critical Habitat</u>	<u>SGCN</u>	<u>Photo</u>
Snowshoe Hare	Lepus americanus					View
Black-tailed Jackrabbit	Lepus californicus					View
White-tailed Jackrabbit	Lepus townsendii					No Photo
Desert Cottontail Rabbit	Sylvilagus audubonii					View
Mountain Cottontail Rabbit	Sylvilagus nuttallii					View
American Pika	Ochotona princeps incana; saxatilis				Y	View
Masked Shrew	Sorex cinereus					No Photo
Merriam's Shrew	Sorex merriami					No Photo
Dusky Shrew	Sorex monticola					No Photo
Dwarf Shrew	Sorex nanus					View
Western Water Shrew	Sorex navigator					No Photo
Big Free-tailed Bat	Nyctinomops macrotis					No Photo
Brazilian Free-tailed Bat	Tadarida brasiliensis					View
Hoary Bat	Aeorestes cinereus					No Photo
Pallid Bat	Antrozous pallidus					View
Pale Townsend's Big-eared Bat	Corynorhinus townsendii				Y	View
Big Brown Bat	Eptesicus fuscus					No Photo
Spotted Bat	Euderma maculatum		T		Y	View
Silver-haired Bat	Lasiorycteris noctivagans					No Photo
California Myotis	Myotis californicus					No Photo
Western Small-footed Myotis	Myotis dilolabrum					View

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Long-eared Myotis	Myotis evotis					No Photo
Fringed Myotis	Myotis thysanodes					View
Long-legged Myotis	Myotis volans					View
Yuma Myotis	Myotis yumanensis					View
Canyon Bat	Parastrellus hesperus					View
Coyote	Canis latrans					View
Common Gray Fox	Urocyon cinereoargenteus					View
Kit Fox	Vulpes macrotis					View
Red Fox	Vulpes vulpes					View
Canada Lynx	Lynx canadensis		T			No Photo
Bobcat	Lynx rufus					View
Mountain Lion	Puma concolor					View
Striped Skunk	Mephitis mephitis					View
Western Spotted Skunk	Spilogale gracilis					View
North American River Otter	Lontra canadensis				Y	View
Pacific Marten	Martes caurina		T		Y	View
Ermine Weasel	Mustela richardsonii					No Photo
Long-tailed Weasel	Neogale frenata					View
American Badger	Taxidea taxus					View
Ringtail	Bassariscus astutus					View
Common Raccoon	Procyon lotor					View
Black Bear	Ursus americanus					View
Feral Horse	Equus caballus					No Photo
Pronghorn	Antilocapra americana americana					View
Rocky Mtn. Bighorn Sheep	Ovis canadensis canadensis					View
Moose	Alces alces					View
Elk	Cervus canadensis nelsoni					View
Mule Deer	Odocoileus hemionus					View
White-tailed Deer (Texas)	Odocoileus virginianus texana					View
American Beaver	Castor canadensis					View

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Long-tailed Vole	Microtus longicaudus longicaudus; alticola; baileyi; mordax					No Photo
Montane Vole	Microtus montanus fusus					No Photo
Southern Red-backed Vole	Myodes gapperi					No Photo
White-throated Woodrat	Neotoma albigula					View
Bushy-tailed Woodrat	Neotoma cinerea					No Photo
Mexican Woodrat	Neotoma mexicana mexicana; inopinata; pinetorum; scopulorum					No Photo
Southern Plains Woodrat	Neotoma micropus canescens					No Photo
Stephen's Woodrat	Neotoma stephensi					No Photo
Common Muskrat	Ondatra zibethicus pallidus; osoyooensis; cinnamominus					View
Northern Grasshopper Mouse	Onychomys leucogaster					No Photo
Brush Mouse	Peromyscus boylii					No Photo
Canyon Mouse	Peromyscus crinitus					No Photo
White-footed Mouse	Peromyscus leucopus					View
Deer Mouse	Peromyscus maniculatus					No Photo
Northern Rock Mouse	Peromyscus nasutus					No Photo
Pinyon Mouse	Peromyscus truei					No Photo
Heather Vole	Phenacomys intermedius					No Photo
Western Harvest Mouse	Reithrodontomys megalotis megalotis; aztecus					No Photo
Meadow Jumping Mouse	Zapus luteus luteus	E	E	Y	Y	View
Western Jumping Mouse	Zapus princeps					No Photo
Common Porcupine	Erethizon dorsatum					View
Botta's Pocket Gopher	Thomomys bottae					No Photo
Northern Pocket Gopher	Thomomys talpoides fossor; kaibabensis					View
Ord's Kangaroo Rat	Dipodomys ordii					View
Plains Pocket Mouse	Perognathus flavescens					No Photo
Silky Pocket Mouse	Perognathus flavus flavus; hopiensis					No Photo
House Mouse	Mus musculus					View
Golden-mantled Ground Squirrel	Callospermophilus lateralis					View

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Gunnison's prairie dog	Cynomys gunnisoni				Y	View
Thirteen-lined Ground Squirrel	Ictidomys tridecemlineatus arenicola; blanca; hollisteri					View
Yellow-bellied Marmot	Marmota flaviventris					View
Rock Squirrel	Otospermophilus variegatus grammurus					View
Abert's Squirrel	Sciurus aberti aberti; chuscensis; ferreus					View
Least Chipmunk	Neotamias minimus atristriatus; operarius; chuskaensis					View
Colorado Chipmunk	Neotamias quadrivittatus quadrivittatus; australis; oscuraensis					View
Red Squirrel	Tamiasciurus fremonti					No Photo
Red Squirrel	Tamiasciurus hudsonicus lychnuchus; mogollonensis					View
Spotted Ground Squirrel	Xerospermophilus spilosoma					No Photo
Canada Goose	Branta canadensis					View
Wood Duck	Aix sponsa					View
Northern Shoveler Duck	Spatula clypeata					View
Cinnamon Teal Duck	Spatula cyanoptera					View
Blue-winged Teal Duck	Spatula discors					View
American Wigeon Duck	Mareca americana					View
Gadwall Duck	Mareca strepera					View
Mallard Duck	Anas platyrhynchos					View
Mexican Duck	Anas diazi					No Photo
Northern Pintail	Anas acuta					View
Green-winged Teal Duck	Anas crecca					View
Canvasback Duck	Aythya valisineria					View
Redhead Duck	Aythya americana					View
Ring-necked Duck	Aythya collaris					View
Lesser Scaup Duck	Aythya affinis					View
Bufflehead Duck	Bucephala albeola					View
Common Goldeneye Duck	Bucephala clangula					View

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Barrow's Goldeneye Duck	Bucephala islandica					View
Hooded Merganser Duck	Lophodytes cucullatus					View
Common Merganser Duck	Mergus merganser					View
Ruddy Duck	Oxyura jamaicensis					View
Scaled Quail	Callipepla squamata					View
Gambel's Quail	Callipepla gambelii					View
Wild Turkey	Meleagris gallopavo merriami; intermedia; silvestris					View
White-tailed Ptarmigan	Lagopus leucura	E			Y	View
Dusky Grouse	Dendragapus obscurus					View
Pied-billed Grebe	Podilymbus podiceps					View
Horned Grebe	Podiceps auritus					No Photo
Eared Grebe	Podiceps nigricollis				Y	View
Western Grebe	Aechmophorus occidentalis					View
Clark's Grebe	Aechmophorus clarkii				Y	View
Band-tailed Pigeon	Patagioenas fasciata					View
Mourning Dove	Zenaida macroura					View
Greater Roadrunner	Geococcyx californianus					View
Yellow-billed Cuckoo (western pop)	Coccyzus americanus occidentalis		T	Y	Y	View
Common Nighthawk	Chordeiles minor				Y	View
Common Poorwill	Phalaenoptilus nuttalli					No Photo
Eastern Whip-poor-will	Antrostomus vociferus					No Photo
Mexican Whip-poor-will	Antrostomus arizonae				Y	View
Black Swift	Cypseloides niger				Y	View
Chimney Swift	Chaetura pelagica					No Photo
White-throated Swift	Aeronautes saxatalis					View
Rivoli's Hummingbird	Eugenes fulgens					View
Black-chinned Hummingbird	Archilochus alexandri					View
Rufous Hummingbird	Selasphorus rufus					View
Broad-tailed Hummingbird	Selasphorus platycercus					View
Virginia Rail	Rallus limicola					View

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Sora	Porzana carolina					View
American Coot	Fulica americana					View
Sandhill Crane	Antigone canadensis					View
American Avocet	Recurvirostra americana					View
Killdeer	Charadrius vociferus					View
Mountain Plover	Charadrius montanus				Y	View
Upland Sandpiper	Bartramia longicauda					No Photo
Long-billed Curlew	Numenius americanus				Y	View
Least Sandpiper	Calidris minutilla					View
White-rumped Sandpiper	Calidris fuscicollis					No Photo
Western Sandpiper	Calidris mauri					View
Wilson's Snipe	Gallinago delicata					View
Spotted Sandpiper	Actitis macularius					View
Wilson's Phalarope	Phalaropus tricolor					View
Bonaparte's Gull	Choricocephalus philadelphia					View
Ring-billed Gull	Larus delawarensis					View
California Gull	Larus californicus					View
Least Tern	Sternula antillarum	E			Y	View
Black Tern	Chlidonias niger					View
Red-throated Loon	Gavia stellata					No Photo
Common Loon	Gavia immer					No Photo
Double-crested Cormorant	Phalacrocorax auritus					View
American White Pelican	Pelecanus erythrorhynchos					View
Brown Pelican	Pelecanus occidentalis	E				View
American Bittern	Botaurus lentiginosus				Y	View
Least Bittern	Ixobrychus exilis exilis					View
Great Blue Heron	Ardea herodias					View
Snowy Egret	Egretta thula					View
Black-crowned Night-Heron	Nycticorax nycticorax					View
White-faced Ibis	Plegadis chihi					View
Turkey Vulture	Cathartes aura					View

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Osprey	Pandion haliaetus					View
Golden Eagle	Aquila chrysaetos					View
Northern Harrier	Circus hudsonius					View
Sharp-shinned Hawk	Accipiter striatus					View
Cooper's Hawk	Accipiter cooperii					View
Northern Goshawk	Accipiter gentilis					View
Bald Eagle	Haliaeetus leucocephalus	T			Y	View
Mississippi Kite	Ictinia mississippiensis					View
Common Black Hawk	Buteogallus anthracinus	T			Y	View
Harris's Hawk	Parabuteo unicinctus					View
Broad-winged Hawk	Buteo platypterus					View
Swainson's Hawk	Buteo swainsoni					View
Zone-tailed Hawk	Buteo albonotatus					View
Red-tailed Hawk	Buteo jamaicensis					View
Rough-legged Hawk	Buteo lagopus					View
Ferruginous Hawk	Buteo regalis					View
Flammulated Owl	Psiloscoops flammeolus				Y	View
Western Screech-Owl	Megascops kennicottii					View
Great Horned Owl	Bubo virginianus					View
Northern Pygmy Owl	Glaucidium gnoma					View
Burrowing Owl	Athene cucularia				Y	View
Mexican Spotted Owl	Strix occidentalis lucida		T	Y	Y	View
Long-eared Owl	Asio otus					View
Boreal Owl	Aegolius funereus	T			Y	View
Belted Kingfisher	Megaceryle alcyon					View
Lewis's Woodpecker	Melanerpes lewis				Y	View
Red-headed Woodpecker	Melanerpes erythrocephalus				Y	View
Williamson's Sapsucker	Sphyrapicus thyroideus				Y	View
Yellow-bellied Sapsucker	Sphyrapicus varius					View
Red-naped Sapsucker	Sphyrapicus nuchalis					View
American Three-toed Woodpecker	Picoides dorsalis					No Photo

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Downy Woodpecker	Dryobates pubescens					View
Ladder-backed Woodpecker	Dryobates scalaris					View
Hairy Woodpecker	Dryobates villosus					View
Northern Flicker	Colaptes auratus					View
American Kestrel	Falco sparverius					View
Peregrine Falcon	Falco peregrinus	T			Y	View
Arctic Peregrine Falcon	Falco peregrinus tundrius					No Photo
Prairie Falcon	Falco mexicanus					View
Ash-throated Flycatcher	Myiarchus cinerascens					View
Cassin's Kingbird	Tyrannus vociferans					View
Western Kingbird	Tyrannus verticalis					View
Eastern Kingbird	Tyrannus tyrannus					View
Olive-sided Flycatcher	Contopus cooperi				Y	View
Western Wood Pewee	Contopus sordidulus					View
Willow Flycatcher	Empidonax traillii brewsteri; adastus					View
Southwestern Willow Flycatcher	Empidonax traillii extimus	E	E	Y	Y	View
Hammond's Flycatcher	Empidonax hammondii					View
Gray Flycatcher	Empidonax wrightii					View
Dusky Flycatcher	Empidonax oberholseri					View
Cordilleran Flycatcher	Empidonax occidentalis					View
Black Phoebe	Sayornis nigricans					View
Eastern Phoebe	Sayornis phoebe					View
Say's Phoebe	Sayornis saya					View
Loggerhead Shrike	Lanius ludovicianus				Y	View
Northern Shrike	Lanius borealis					No Photo
Gray Vireo	Vireo vicinior	T			Y	View
Cassin's Vireo	Vireo cassinii					View
Blue-headed Vireo	Vireo solitarius					View
Plumbeous Vireo	Vireo plumbeus					View
Warbling Vireo	Vireo gilvus					View

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Red-eyed Vireo	Vireo olivaceus					View
Canada Jay	Perisoreus canadensis					View
Pinyon Jay	Gymnorhinus cyanocephalus				Y	View
Steller's Jay	Cyanocitta stelleri					View
Blue Jay	Cyanocitta cristata					View
Woodhouse's Scrub Jay	Aphelocoma woodhouseii					View
Clark's Nutcracker	Nucifraga columbiana				Y	View
Black-billed Magpie	Pica hudsonia					View
American Crow	Corvus brachyrhynchos					View
Common Raven	Corvus corax					View
Horned Lark	Eremophila alpestris					View
Bank Swallow	Riparia riparia				Y	View
Tree Swallow	Tachycineta bicolor					View
Violet-green Swallow	Tachycineta thalassina					View
Northern Rough-winged Swallow	Stelgidopteryx serripennis					View
Purple Martin	Progne subis					View
Barn Swallow	Hirundo rustica					View
Cliff Swallow	Petrochelidon pyrrhonota					View
Black-capped Chickadee	Poecile atricapillus					View
Mountain Chickadee	Poecile gambeli					View
Juniper Titmouse	Baeolophus ridgwayi				Y	View
Bushtit	Psaltriparus minimus					View
Red-breasted Nuthatch	Sitta canadensis					View
White-breasted Nuthatch	Sitta carolinensis					View
Pygmy Nuthatch	Sitta pygmaea				Y	View
Brown Creeper	Certhia americana					View
Rock Wren	Salpinctes obsoletus					View
Canyon Wren	Catherpes mexicanus					View
House Wren	Troglodytes aedon					View
Winter Wren	Troglodytes hiemalis					No Photo
Marsh Wren	Cistothorus palustris					View

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Bewick's Wren	Thryomanes bewickii					View
Blue-gray Gnatcatcher	Poliopitila caerulea					View
American Dipper	Cinclus mexicanus					View
Golden-crowned Kinglet	Regulus satrapa					No Photo
Ruby-crowned Kinglet	Regulus calendula					View
Eastern Bluebird	Sialia sialis					View
Western Bluebird	Sialia mexicana				Y	View
Mountain Bluebird	Sialia currucoides				Y	View
Townsend's Solitaire	Myadestes townsendi					View
Swainson's Thrush	Catharus ustulatus					View
Hermit Thrush	Catharus guttatus					View
American Robin	Turdus migratorius					View
Gray Catbird	Dumetella carolinensis					View
Brown Thrasher	Toxostoma rufum					View
Bendire's Thrasher	Toxostoma bendirei				Y	View
Sage Thrasher	Oreoscoptes montanus					View
Northern Mockingbird	Mimus polyglottos					View
European Starling	Sturnus vulgaris					View
Bohemian Waxwing	Bombycilla garrulus					No Photo
Cedar Waxwing	Bombycilla cedrorum					View
House Sparrow	Passer domesticus					View
American Pipit	Anthus rubescens					View
Evening Grosbeak	Coccothraustes vespertinus				Y	View
Pine Grosbeak	Pinicola enucleator					No Photo
Black Rosy-Finch	Leucosticte atrata					View
Brown-capped Rosy-Finch	Leucosticte australis				Y	View
House Finch	Haemorhous mexicanus					View
Cassin's Finch	Haemorhous cassinii				Y	View
Red Crossbill	Loxia curvirostra					View
Pine Siskin	Spinus pinus					View
Lesser Goldfinch	Spinus psaltria					View

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American Goldfinch	Spinus tristis					View
Black-throated Sparrow	Amphispiza bilineata					View
Lark Sparrow	Chondestes grammacus					View
Lark Bunting	Calamospiza melanocorys					View
Chipping Sparrow	Spizella passerina					View
Brewer's Sparrow	Spizella breweri					View
Dark-eyed Junco	Junco hyemalis					View
White-crowned Sparrow	Zonotrichia leucophrys					View
Sagebrush Sparrow	Artemisiospiza nevadensis				Y	View
Vesper Sparrow	Pooecetes gramineus				Y	View
Baird's Sparrow	Centronyx bairdii		T		Y	View
Savannah Sparrow	Passerculus sandwichensis nevadensis; anthinus					View
Song Sparrow	Melospiza melodia					View
Lincoln's Sparrow	Melospiza lincolnii					View
Swamp Sparrow	Melospiza georgiana					View
Canyon Towhee	Melospiza fusca					View
Green-tailed Towhee	Pipilo chlorurus					View
Spotted Towhee	Pipilo maculatus					View
Yellow-breasted Chat	Icteria virens					View
Yellow-headed Blackbird	Xanthocephalus xanthocephalus					View
Bobolink	Dolichonyx oryzivorus					No Photo
Western Meadowlark	Sturnella neglecta					View
Bullock's Oriole	Icterus bullockii					View
Baltimore Oriole	Icterus galbula					View
Scott's Oriole	Icterus parisorum					View
Red-winged Blackbird	Agelaius phoeniceus					View
Brown-headed Cowbird	Molothrus ater					View
Rusty Blackbird	Euphagus carolinus					View
Brewer's Blackbird	Euphagus cyanocephalus					View
Common Grackle	Quiscalus quiscula					View

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Great-tailed Grackle	Quiscalus mexicanus					View
Ovenbird	Seiurus aurocapilla					No Photo
Northern Waterthrush	Parkesia noveboracensis					View
Orange-crowned Warbler	Leiothlypis celata					View
Virginia's Warbler	Leiothlypis virginiae				Y	View
Macgillivray's Warbler	Geothlypis tolmiei					View
Common Yellowthroat	Geothlypis trichas					View
Hooded Warbler	Setophaga citrina					View
Northern Parula	Setophaga americana					No Photo
Yellow Warbler	Setophaga petechia					View
Palm Warbler	Setophaga palmarum					View
Pine Warbler	Setophaga pinus					View
Yellow-rumped Warbler	Setophaga coronata					View
Grace's Warbler	Setophaga graciae				Y	View
Black-throated Gray Warbler	Setophaga nigrescens				Y	View
Black-throated Green Warbler	Setophaga virens					View
Wilson's Warbler	Cardellina pusilla					View
Hepatic Tanager	Piranga flava					View
Summer Tanager	Piranga rubra					View
Western Tanager	Piranga ludoviciana					View
Black-headed Grosbeak	Pheucticus melanocephalus					View
Blue Grosbeak	Passerina caerulea					View
Lazuli Bunting	Passerina amoena					View
Indigo Bunting	Passerina cyanea					View
Dickcissel	Spiza americana					View
Western Painted Turtle	Chrysemys picta					View
Ornate Box Turtle	Terrapene ornata					View
Eastern Collared Lizard	Crotaphytus collaris					View
Common Lesser Earless Lizard	Holbrookia maculata maculata; bunkerii; ruthveni					View
Hernandez's Short-horned Lizard	Phrynosoma hernandesi					View

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Round-tailed Horned Lizard	Phrynosoma modestum					View
Northern Sagebrush Lizard	Sceloporus graciosus					View
Plateau Fence Lizard	Sceloporus tristichus					View
Northern Tree Lizard	Urosaurus ornatus					View
Common Side-blotched Lizard	Uta stansburiana					View
Chihuahuan Spotted Whiptail	Aspidoscelis exsanguis					View
New Mexico Whiptail	Aspidoscelis neomexicana					View
Plateau Striped Whiptail	Aspidoscelis velox					View
Many-lined Skink	Plestiodon multivirgatus					View
Texas Blind Snake	Rena dissecta					View
Glossy Snake	Arizona elegans					View
Coachwhip	Coluber flagellum					View
Desert Striped Whipsnake	Coluber taeniatus					View
Plains Hog-nosed Snake	Heterodon nasicus					View
Milk Snake	Lampropeltis gentilis					View
Smooth Greensnake	Opheodrys vernalis					View
Great Plains Rat Snake	Pantherophis emoryi					View
Gophersnake	Pituophis catenifer					View
Mountain Patchnose Snake	Salvadora grahamiae					View
Black-necked Gartersnake	Thamnophis cyrtopsis					View
Wandering Gartersnake	Thamnophis elegans					View
New Mexico Gartersnake	Thamnophis sirtalis					View
Western Diamond-backed Rattlesnake	Crotalus atrox					View
Prairie Rattlesnake	Crotalus viridis					View
Tiger Salamander	Ambystoma mavortium mavortium; nebulosum					View
Jemez Mountains Salamander	Plethodon neomexicanus	E	E	Y	Y	View
Plains Spadefoot	Spea bombifrons					View
New Mexico Spadefoot	Spea multiplicata					View
Boreal Toad	Anaxyrus boreas boreas	E			Y	View
Great Plains Toad	Anaxyrus cognatus					View

All Species Rio Arriba

<u>Common Name</u>	<u>Scientific Name</u>	<u>NMGE</u>	<u>USFWS</u>	<u>Critical Habitat</u>	<u>SGCN</u>	<u>Photo</u>
Red-spotted Toad	Anaxyrus punctatus					View
Woodhouse's Toad	Anaxyrus woodhousii					View
Boreal Chorus Frog	Pseudacris maculata				Y	View
Plains Leopard Frog	Lithobates blairi				Y	View
Bullfrog	Lithobates catesbeianus					View
Northern Leopard Frog	Lithobates pipiens				Y	View
Red Shiner	Cyprinella lutrensis					View
Common Carp	Cyprinus carpio					View
Rio Grande Chub	Gila pandora				Y	View
Roundtail Chub (upper basin populations)	Gila robusta	E			Y	View
Fathead Minnow	Pimephales promelas					View
Flathead Chub	Platygobio gracilis					View
Longnose Dace	Rhinichthys cataractae					View
Speckled Dace	Rhinichthys osculus					No Photo
River Carpsucker	Carpiodes carpio					View
White Sucker	Catostomus commersoni					View
Bluehead Sucker	Catostomus discobolus discobolus					No Photo
Flannelmouth Sucker	Catostomus latipinnis					No Photo
Rio Grande Sucker	Catostomus plebeius				Y	View
Black Bullhead	Ameiurus melas					View
Channel Catfish	Ictalurus punctatus					View
Cutthroat Trout	Oncorhynchus darkii					No Photo
Rio Grande Cutthroat Trout	Oncorhynchus darkii virginalis					View
Rainbow Trout	Oncorhynchus mykiss					View
Kokanee Salmon	Oncorhynchus nerka					View
Brown Trout	Salmo trutta					View
Brook Trout	Salvelinus fontinalis					View
Lake Trout	Salvelinus namaycush					View
Northern Pike	Esox lucius					View
Plains Killifish	Fundulus zebrinus					No Photo

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Western mosquitofish	Gambusia affinis					No Photo
Mottled Sculpin	Cottus bairdi					No Photo
Green Sunfish	Lepomis cyanellus					View
Bluegill	Lepomis macrochirus					View
Smallmouth Bass	Micropterus dolomieu					View
Largemouth Bass	Micropterus salmoides					View
White Crappie	Pomoxis annularis					View
Yellow Perch	Perca flavescens					View
Walleye	Sander vitreus					View
Forest Disc Snail	Discus whitleyi					No Photo
Mexican Coil Snail	Helicodiscus eigenmani					No Photo
Socorro Mountainsnail	Oreohelix neomexicana					No Photo
Rocky Mountainsnail	Oreohelix strigosa					View
Suboval Ambersnail	Catinella vermeta					No Photo
Montane Snaggletooth Snail	Gastrocopta pilsbryana					No Photo
Widespread Column Snail	Pupilla muscorum					No Photo
Ribbed Dagger Snail	Pupoides hordaceus					No Photo
Rocky Mtn. Column Snail	Pupilla blandi					No Photo
Vertigo Snail	Vertigo arizonensis					No Photo
Vertigo Snail	Vertigo concinnula					No Photo
Glossy Pillar Snail	Cionella lubrica					No Photo
Silky Vallonia Snail	Vallonia cyclophorella					No Photo
Multirib Vallonia Snail	Vallonia gracilicosta					No Photo
Meadow Slug Snail	Deroceras laeve					No Photo
Western Glass Snail	Vitina pellucida					No Photo
Minute Gem Snail	Hawaiiia minuscula					No Photo
Amber Glass Snail	Nesovitrea hammonis					No Photo
Quick Gloss Snail	Zonitoides arboreus					No Photo
Brown Hive Snail	Euconulus fulvus					No Photo
Jemez Woodlandsnail	Ashmunella ashmuni				Y	No Photo
Spruce Snail	Microphysula ingersolli					No Photo

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Colorado Fairy Shrimp	Branchinecta coloradensis				Y	View
Versatile Fairy Shrimp	Branchinecta lindahli				Y	View
Tiger Beetle	Cicindela fulgida fulgida; pseudovillistonii					No Photo
Tiger Beetle	Cicindela hirticollis					No Photo
Tiger Beetle	Cicindela lengi lengi; jordai					No Photo
Dainty Tiger Beetle	Cicindela lepida					No Photo
Tiger Beetle	Cicindela longilabris laurentii					No Photo
Tiger Beetle	Cicindela marutha					No Photo
Tiger Beetle	Cicindela nigrocoerulea					No Photo
Tiger Beetle	Cicindela obsoleta obsoleta; santaclarae					No Photo
Tiger Beetle	Cicindela oregona					No Photo
Tiger Beetle	Cicindela pulchra					No Photo
Tiger Beetle	Cicindela punctulata					No Photo
Tiger Beetle	Cicindela purpurea					No Photo
Tiger Beetle	Cicindela repanda					View
Tiger Beetle	Cicindela sedecimpunctata					No Photo
Tiger Beetle	Cicindela sperata					No Photo
Variable Tiger Beetle	Cicindela terricola					No Photo
Tiger Beetle	Cicindela tranquebarica					No Photo
Nevada Tiger Beetle	Ellipsiptera nevadica tubensis					No Photo
Rove Beetle	Anotylus alpicola					No Photo
Moth	Hemileuca nuttalli					No Photo
Twin-spot Sphinx Moth	Smerinthus jamaicensis					No Photo
White-lined Sphinx Moth	Hyles lineata					View
Silver-Spotted Skipper	Epargyreus darus darus					View
Afranius Duskywing Skipper	Erynnis afranius					No Photo
Sleepy Duskywing Skipper	Erynnis brizo					View
Horace's Duskywing Skipper	Erynnis horatius					No Photo
Dreamy Duskywing Skipper	Erynnis icelus					View
Pacuvius Duskywing Skipper	Erynnis pacuvius					No Photo

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Persius Duskywing Skipper	Erynnis persius					No Photo
Rocky Mtn Duskywing Skipper	Erynnis telemachus					View
Northern White Skipper	Heliopetes ericetorum					No Photo
Saltbush Sootywing Skipper	Hesperopsis alpheus					No Photo
Loki Grizzled Skipper	Pyrgus centaureae					No Photo
Common Checkered Skipper	Pyrgus communis					View
Mountain Checkered Skipper	Pyrgus xanthus					No Photo
Mexican Cloudwing Skipper	Thorybes mexicanus					No Photo
Northern Cloudywing Skipper	Thorybes pylades					View
Short-Tailed Skipper	Zestusa dorus					No Photo
Russet Skipperling Skipper	Piruna pirus					View
Bronze Roadside Skipper	Amblyscirtes aenus					No Photo
Cassus Roadside Skipper	Amblyscirtes cassus					No Photo
Oslar's Roadside Skipper	Amblyscirtes oslari					No Photo
Orange-headed Roadside Skipper	Amblyscirtes phylace					No Photo
Simius Roadside Skipper	Amblyscirtes simius					No Photo
Roadside Skipper	Amblyscirtes vialis					No Photo
Python Skipper	Atrytonopsis python					No Photo
Viereck's Skipper	Atrytonopsis vierecki					No Photo
Kiowa Dun Skipper	Euphyes vestris					View
Colorado Branded Skipper	Hesperia comma colorado					No Photo
Juba Skipper	Hesperia juba					No Photo
Nevada Skipper	Hesperia nevada					No Photo
Pahaska Skipper	Hesperia pahaska pahaska					No Photo
Uncas Skipper	Hesperia uncas uncas					No Photo
Green Skipper	Hesperia viridis					View
Apache Skipper	Hesperia woodgatei					No Photo
Garita Skipperling Skipper	Oarisma garita					View
Napa Woodland Skipper	Ochlodes sylvanoides					No Photo
Taxiles Skipper	Poanes taxiles					View
Draco Skipper	Polites draco					View

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Sandhill Skipper	Polites sabuleti					No Photo
Tawny-Edged Skipper	Polites themistodes					View
Morrison's Skipper	Stinga morrisoni					No Photo
Colorado Giant Skipper	Megathymus coloradensis coloradensis					No Photo
Strecker's Giant Skipper	Megathymus streckeri streckeri					View
Roger's False Parnassian Butterfly	Parnassius phoebus					View
Rhesus Skipper	Yvretta rhesus					No Photo
Baird's Swallowtail Butterfly	Papilio bairdii					No Photo
Black Swallowtail Butterfly	Papilio polyxenes asterius					View
Nitra Swallowtail Butterfly	Papilio zelicaon nitra					No Photo
Anise Swallowtail Butterfly	Papilio zelicaon zelicaon					View
Western Tiger Swallowtail Butterfly	Pterourus rutulus rutulus					View
Ingham's Orangetip Butterfly	Anthocharis sara					View
Two-Tailed Swallowtail Butterfly	Pterourus multicaudatus					View
Pale Swallowtail Butterfly	Pterourus eurymedon					No Photo
Colorado Marble Butterfly	Euchloe ausonides					No Photo
Southern Marble Butterfly	Euchloe hyantis					No Photo
Pine White Butterfly	Neophasia menapia					View
McDunnough's White Butterfly	Pieris napi mcdunnoughi					No Photo
Cabbage White Butterfly	Pieris rapae					View
Becker's White Butterfly	Pontia beckerii					No Photo
Western White Butterfly	Pontia occidentalis					View
Checkered White Butterfly	Pontia protodice					View
Spring White Butterfly	Pontia sisymbrii elivata					No Photo
Queen Alexandra's Sulphur Butterfly	Colias alexandra alexandra					View
Orange Sulphur Butterfly	Colias eurytheme					View
Mead's Sulphur Butterfly	Colias meadii					No Photo
Western Common Sulphur Butterfly	Colias philodice					View
Scudder's Willow Sulphur Butterfly	Colias scudderii					No Photo
Mexican Yellow Butterfly	Eurema mexicanum					No Photo

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Sleepy Orange Butterfly	Eurema nicippe					View
Dainty Sulphur Butterfly	Nathalis iole					View
Southern Dogface Butterfly	Zerene cesonia					View
Colorado Hairstreak Butterfly	Hypaurotis crysalus					View
Great Purple Hairstreak Butterfly	Atlides halesus					View
Rocky Mountain Green Hairstreak Butterfly	Callophrys affinis homoperplexa					No Photo
Sheridan's Hairstreak Butterfly	Callophrys sheridanii sheridanii					No Photo
Western Elfin Butterfly	Callophrys augustinus iroides					No Photo
Western Pine Elfin Butterfly	Callophrys eryphon					No Photo
Obscure Elfin Butterfly	Callophrys polios					No Photo
Juniper Hairstreak Butterfly	Callophrys gryneus					View
Thicket Hairstreak Butterfly	Callophrys spinetorum					View
Cross's Hairstreak Butterfly	Satyrium behrii					No Photo
Godart's Hairstreak Butterfly	Satyrium calanus					No Photo
Itys Hairstreak Butterfly	Satyrium sylvinum					No Photo
Immaculate Hairstreak Butterfly	Satyrium titus immaculosus					No Photo
Frank's Common Hairstreak Butterfly	Strymon melinus					View
Rustic Blue Butterfly	Agriades rusticus					View
Arizona Blue Butterfly	Celastrina ladon cinerea					No Photo
Square-spotted Blue Butterfly	Euphilotes battoides centralis					View
Spalding's Blue Butterfly	Euphilotes spaldingi					View
Western Tailed Blue Butterfly	Cupido amyntula					View
Silvery Blue Butterfly	Glaucopsyche lygdamus oro					View
Reakirt's Blue Butterfly	Hemiargus isola					View
Marine Blue Butterfly	Leptotes marina					View
Melissa Blue Butterfly	Plebejus melissa					View
Texas Blue Butterfly	Plebejus acmon					View
Lycea Blue Butterfly	Plebejus icarioides lycea					View
Whitmer's Blue Butterfly	Plebejus saepiolus whitmeri					View
Sirius Copper Butterfly	Tharsalea rubidus					No Photo

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Blue Copper Butterfly	Tharsalea heteronea					No Photo
Mormon Metalmark Butterfly	Apodemia mormo mormo					No Photo
Purplish Copper Butterfly	Tharsalea helloides					View
Shellbach's Copper Butterfly	Tharsalea arota					View
Nais Metalmark Butterfly	Apodemia nais					No Photo
Leda Hairstreak Butterfly	Ministrymon leda					No Photo
Western Pygmy Blue Butterfly	Brephidum exile					View
Southern Snout Butterfly	Libytheana bachmanii					No Photo
Milbert's Tortoise Shell Butterfly	Aglais milberti					View
Buckeye Butterfly	Junonia coenia					View
Mourning Cloak Butterfly	Nymphalis antiopa					View
California Tortoise Shell Butterfly	Nymphalis californica					View
Green Comma Butterfly	Polygonia faunus					View
Hoary Comma Butterfly	Polygonia gracilis					View
Satyr Angleming Butterfly	Polygonia satyrus					No Photo
West Coast Lady Butterfly	Vanessa annabella					View
Red Admiral Butterfly	Vanessa atalanta					View
Painted Lady Butterfly	Vanessa cardui					View
American Lady Butterfly	Vanessa virginiensis					View
Variegated Fritillary Butterfly	Euptoieta claudia					View
Great Spangled Fritillary Butterfly	Speyeria cybele					No Photo
Edwards' Fritillary Butterfly	Speyeria edwardsii					No Photo
Electa Fritillary Butterfly	Speyeria hesperis electa					View
Nikias Fritillary Butterfly	Speyeria hesperis nikias					View
Eurynome Silverspot Butterfly	Speyeria mormonia					View
Carlota Checkerspot Butterfly	Chlosyne gorgone					No Photo
Chuska Mountains Checkerspot Butterfly	Euphydryas anicia chuskae					No Photo
Mylitta Crescent Butterfly	Phyciodes mylitta					View
Painted Crescent Butterfly	Phyciodes pictus					View
Camillus Crescent Butterfly	Phyciodes pulchella					View

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Pearl Crescent Butterfly	Phyciodes tharos Type B					No Photo
Montane Penstemon Checkerspot Butterfly	Poladryas minuta arachne					No Photo
Fulvia Checkerspot Butterfly	Thessalia fulvia					View
Arizona Sister Butterfly	Adelpha bredowii					View
Mead's Wood Nymph Butterfly	Cercyonis meadii meadii					View
Charon Satyr Butterfly	Cercyonis oetus					View
Common Wood-Nymph Butterfly	Cercyonis pegala					View
Ochre Ringlet Butterfly	Coenonympha ochracea ochracea					View
Canyonland Satyr Butterfly	Cyllopsis pertepida dorothea					View
Common Alpine Butterfly	Erebia epipsodea					View
Ridings' Satyr Butterfly	Neominois ridingsii ridingsii					No Photo
Chryxus Arctic Butterfly	Oeneis chryxus chryxus					View
CO Melissa Arctic Butterfly	Oeneis melissa					No Photo
Bruce's Arctic Butterfly	Oeneis polixenes					No Photo
Uhler's Arctic Butterfly	Oeneis uhleri					No Photo
Striated Queen Butterfly	Danaus gilippus					View
Monarch Butterfly	Danaus plexippus				C	View
Tolland Fritillary Butterfly	Boloria selene					No Photo
Brown's Fritillary Butterfly	Boloria freija					No Photo
Helena Fritillary Butterfly	Boloria titania					View
Drusius Checkerspot Butterfly	Charidryas nycteis					View
Pearly Checkerspot Butterfly	Charidryas acastus acastus					No Photo
Alena Checkerspot Butterfly	Occidryas anicia alena					No Photo
Mead's Checkerspot Butterfly	Occidryas anicia eurytion					No Photo
Viceroy Butterfly	Limenitis archippus archippus					No Photo
Weidemeyer's Admiral Butterfly	Limenitis weidemeyerii weidemeyerii					View
Great Spreadwing	Archilesthes grandis					View
Plateau Spreadwing	Lestes alacer					View
Southern Spreadwing	Lestes australis					No Photo
Spotted Spreadwing	Lestes congener					View

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Northern Spreadwing	Lestes disjunctus					No Photo
Emerald Spreadwing	Lestes dryas					No Photo
American Rubyspot	Hetaerina americana					View
Western Red Damselfly	Amphiagrion abbreviatum					View
Blue-fronted Dancer	Argia apicalis					View
Sooty Dancer	Argia lugens					View
Springwater Dancer	Argia plana					View
Vivid Dancer	Argia vivida					View
Taiga Bluet	Coenagrion resolutum					View
Northern Bluet	Enallagma annexum					View
Double-striped Bluet	Enallagma basidens					No Photo
Boreal Bluet	Enallagma boreale					No Photo
Tule Bluet	Enallagma carunculatum					View
Familiar Bluet	Enallagma civile					View
Arroyo Bluet	Enallagma praevarum					No Photo
Plains Forktail	Ischnura damula					View
Mexican Forktail	Ischnura demorsa					View
Variable Darner	Aeshna interrupta					No Photo
Paddle-tailed Darner	Aeshna palmata					View
Shadow Darner	Aeshna umbrosa					No Photo
Common Green Darner	Anax junius					View
Riffle Darner	Oplonaeschna armata					No Photo
Blue-eyed Darner	Rhionaeschna multicolor					View
White-belted Ringtail	Erpetogomphus compositus					View
Pale Snaketail	Ophiogomphus severus					View
Sulphur-tipped Clubtail	Phanogomphus militaris					No Photo
Brimstone Clubtail	Stylurus intricatus					View
Pacific Spiketail	Cordulegaster dorsalis					No Photo
Mountain Emerald	Somatochlora semicircularis					No Photo
Pale-faced Clubskimmer	Brechmorhoga mendax					View
Checkered Setwing	Dythemis fugax					View

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Western Pondhawk	Erythemis collocata					No Photo
Eastern Pondhawk	Erythemis simplicicollis					View
Boreal Whiteface	Leucorrhinia borealis					View
Widow skimmer	Libellula luctuosa					View
Twelve-spotted Skimmer	Libellula pulchella					View
Four-spotted Skimmer	Libellula quadrimaculata					View
Flame Skimmer	Libellula saturata					View
Roseate Skimmer	Orthemis ferruginea					View
Blue Dasher	Pachydiplax longipennis					View
Red Rock Skimmer	Paltothemis lineatipes					No Photo
Wandering Glider	Pantala flavescens					View
Eastern Amberwing	Perithemis tenera					View
Common Whitetail	Plathemis lydia					View
Variegated meadowhawk	Sympetrum corruptum					View
Black Meadowhawk	Sympetrum danae					View
Cardinal Meadowhawk	Sympetrum illotum					No Photo
Cherry-faced Meadowhawk	Sympetrum internum					View
Striped Meadowhawk	Sympetrum pallipes					View
Band-winged Meadowhawk	Sympetrum semicinctum					View
Black Saddlebags	Tamea lacerata					View
Red Saddlebags	Tamea onusta					View
Club-Horned Grasshopper	Aeropedellus clavatus					No Photo
White Whiskers Grasshopper	Ageneotettix deorum					No Photo
Striped Slant-Faced Grasshopper	Amphitornus coloradus					No Photo
Elliott Grasshopper	Aulocara elliotti					No Photo
White Cross Grasshopper	Aulocara femoratum					No Photo
Cream Grasshopper	Cibolacris parviceps					No Photo
Spotted Wing Grasshopper	Cordillacris occipitalis					No Photo
Velvet-Striped Grasshopper	Eritettix simplex					No Photo
Rufous Grasshopper	Heliaula rufa					No Photo
Grasshopper	Mermiria texana					No Photo

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Obscure Grasshopper	Opeia obscura					No Photo
Brown Spotted Range Grasshopper	Psoloessa delicatula					No Photo
Grasshopper	Psoloessa texana					No Photo
Speckled Rangeland Grasshopper	Arphia conspera					No Photo
Red-Winged Grasshopper	Arphia pseudonietana					No Photo
Clear-Winged Grasshopper	Camnula pellucida					No Photo
Northern Green-Striped Locust Grasshopper	Chortophaga viridifasciata					No Photo
Wrangler Grasshopper	Circotettix rabula					View
Groove-Headed Grasshopper	Conozoa sulcifrons					No Photo
Grasshopper	Conozoa texana					No Photo
Pronotal Range Grasshopper	Cratypedes neglectus					No Photo
Carolina Grasshopper	Dissosteira carolina					No Photo
Dusky Grasshopper	Encoptolophus costalis					No Photo
Arroyo Grasshopper	Heliastus benjamini					No Photo
Grasshopper	Hippopedon capito					No Photo
Blue-Winged Grasshopper	Lepus intermedius					No Photo
Campestral Grasshopper	Spharagemon campestris					No Photo
Mottled Sand Grasshopper	Spharagemon collare					No Photo
Kiowa Range Grasshopper	Trachyrhachys kiowa					No Photo
Grasshopper	Trimerotropis barnumi					No Photo
Strenuous Grasshopper	Trimerotropis californica					No Photo
Grasshopper	Trimerotropis fratercula					No Photo
Thomas' Slender Grasshopper	Trimerotropis gracilis					No Photo
Grasshopper	Trimerotropis inconspicua					No Photo
Grasshopper	Trimerotropis modesta					No Photo
Barren Land Grasshopper	Trimerotropis pristrinaria					No Photo
Crackling Forest Grasshopper	Trimerotropis verruculata					No Photo
Red Shanks Grasshopper	Xanthippus corallipes					No Photo
Grasshopper	Xanthippus montanus					No Photo
Green Bird Grasshopper	Schistocerca alutacea shoshone					No Photo

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Grasshopper	Hesperotettix speciosus					No Photo
Green Streak Grasshopper	Hesperotettix viridis					No Photo
Narrow-Winged Spur-Throat Grasshopper	Melanoplus angustipennis					No Photo
Two-Striped Grasshopper	Melanoplus bivittatus					No Photo
Grasshopper	Melanoplus bohemani					No Photo
Northern Spur-Throat Grasshopper	Melanoplus borealis					No Photo
Bowditch's Spur-Throat Grasshopper	Melanoplus bowditchi					No Photo
Bruner's Spur-Throat Grasshopper	Melanoplus bruneri					No Photo
Little Pasture Spur-Throat Grasshopper	Melanoplus confusus					No Photo
Grasshopper	Melanoplus cumbres					No Photo
Differential Grasshopper	Melanoplus differentialis					No Photo
Red-Legged Grasshopper	Melanoplus femurrubrum					No Photo
Grasshopper	Melanoplus foedus					No Photo
Gladston's Spur-Throat Grasshopper	Melanoplus gladstoni					No Photo
Glaucous-Legged Grasshopper	Melanoplus glaucipes					No Photo
Tiny Spur-Throat Grasshopper	Melanoplus infantilis					No Photo
Kennicott's Spur-Throat Grasshopper	Melanoplus kennicott's					No Photo
Grasshopper	Melanoplus lakinus					No Photo
Flabellate Grasshopper	Melanoplus occidentalis					No Photo
Packard's Grasshopper	Melanoplus packardi					No Photo
Grasshopper	Melanoplus splendidus					No Photo
Platte Range Grasshopper	Mestobregna plattei					No Photo
Grasshopper	Mestobregna terricolor					No Photo
False Ameletus Mayfly	Ameletus falsus					No Photo
Mayfly	Acentrella insignificans					No Photo
Mayfly	Baetis tricaudatus					No Photo
Mayfly	Callibaetis pictus					No Photo
Mayfly	Ephemera simulans					No Photo
Mayfly	Epeorus albertae					No Photo
Mayfly	Epeorus longimanus					No Photo

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Mayfly	Epeorus margarita					No Photo
Mayfly	Nixe criddlei					No Photo
Mayfly	Nixe simplicioides					No Photo
Mayfly	Rhithrogena undulata					No Photo
Mayfly	Paraleptophlebia heteronea					No Photo
Mayfly	Paraleptophlebia memorialis					No Photo
Mayfly	Drunella doddsi					No Photo
Mayfly	Ephemerella inermis					No Photo
Mayfly	Serratella micheneri					No Photo
Mayfly	Timpanoga hecuba					No Photo
Mayfly	Leptohyphes apache					No Photo
Mayfly	Tricorythodes explicatus					No Photo
Comb-Footed Spider	Theridion neomexicanum					No Photo
Comb-Footed Spider	Theridion ohlerti					No Photo
Orb Weaver Spider	Araneus bicentenarius					No Photo
Thin-legged Wolf Spider	Pardosa coloradensis					No Photo
Thin-legged Wolf Spider	Pardosa distincta					No Photo
Thin-legged Wolf Spider	Pardosa fuscula					No Photo
Thin-legged Wolf Spider	Pardosa ourayensis					No Photo
Thin-legged Wolf Spider	Pardosa sternalis					No Photo
Spider	Varacosa gosiuta					No Photo
Pseudoscorpion	Parachelifer persimilis					No Photo
Pseudoscorpion	Hesperochernes utahensis					No Photo
Pseudoscorpion	Dinocheirus athleticus					No Photo
Pseudoscorpion	Chitrella transversa					No Photo
Pseudoscorpion	Mundochthonius montanus					No Photo
Pseudoscorpion	Lechytia pacifica					No Photo
Pseudoscorpion	Syarinus obscurus					No Photo
Scud	Hyaella azteca					No Photo
Northern Crayfish	Faxonius virilis					View



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 Osuna Road Ne
Albuquerque, NM 87113-1001
Phone: (505) 346-2525 Fax: (505) 346-2542

In Reply Refer To:
Project Code: 2022-0002917
Project Name: Abiquiu Water Control Manual updates

March 08, 2023

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:

Thank you for your recent request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of New Mexico wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 *et seq.*), the Migratory Bird Treaty Act as amended (16 USC 701-715), and the Bald and Golden Eagle Protection Act as amended (16 USC 668-668(c)). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area, and to recommend some conservation measures that can be included in your project design.

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the ESA of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the ESA is to provide a means whereby threatened and endangered species and

the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA 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 threatened and endangered species and to determine whether projects may affect threatened and endangered 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 (NEPA; 42 USC 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 a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at <http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>.

Candidate Species and Other Sensitive Species

A list of candidate and other sensitive species in your area is also attached. Candidate species and other sensitive species are species that have no legal protection under the ESA, although we recommend that candidate and other sensitive species be included in your surveys and considered for planning purposes. The Service monitors the status of these species. If significant declines occur, these species could potentially be listed. Therefore, actions that may contribute to their decline should be avoided.

Lists of sensitive species including State-listed endangered and threatened species are compiled by New Mexico State agencies. These lists, along with species information, can be found at the following websites.

Biota Information System of New Mexico (BISON-M): www.bison-m.org

New Mexico State Forestry. The New Mexico Endangered Plant Program:
<https://www.emnrd.nm.gov/sfd/rare-plants/>

New Mexico Rare Plant Technical Council, New Mexico Rare Plants: nmrareplants.unm.edu

Natural Heritage New Mexico, online species database: nhnm.unm.edu

WETLANDS AND FLOODPLAINS

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value.

We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's NWI program website, www.fws.gov/wetlands/Data/Mapper.html, integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

MIGRATORY BIRDS

In addition to responsibilities to protect threatened and endangered species under the ESA, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 CFR 10.12 and 16 USC 668(a)). For more information regarding these Acts see <https://www.fenws.gov/birds/policies-and-regulations.php>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a Federal nexus) or a Bird/Eagle Conservation Plan (when there is no Federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php>. We also recommend review of the Birds of Conservation Concern list (<https://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>) to fully evaluate the effects to the birds at your site. This list identifies migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that represent top conservation priorities for the Service, and are potentially threatened by disturbance, habitat impacts, or other project development activities.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 thereby provides additional protection for both migratory birds and migratory bird habitat. Please visit <https://www.fws.gov/migratorybirds/pdf/management/executiveordertoprotectmigratorybirds.pdf> for information

regarding the implementation of Executive Order 13186.

We suggest you contact the New Mexico Department of Game and Fish, and the New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division for information regarding State protected and at-risk species fish, wildlife, and plants.

For further consultation with the Service we recommend submitting inquiries or assessments electronically to our incoming email box at nmesfo@fws.gov, where it will be more promptly routed to the appropriate biologist for review.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. 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.

Attachment(s):

- Official Species List
-

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:

New Mexico Ecological Services Field Office

2105 Osuna Road Ne

Albuquerque, NM 87113-1001

(505) 346-2525

PROJECT SUMMARY

Project Code: 2022-0002917
Project Name: Abiquiu Water Control Manual updates
Project Type: Dam - Operations
Project Description: Update the Water Control Manual for water operations, including increasing the storage elevation up to 6230 feet NGVD29 and allow storage of native Rio Grande water as directed by Congress.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@36.2632725,-106.45274050046282,14z>



Counties: Rio Arriba County, New Mexico

ENDANGERED SPECIES ACT SPECIES

There is a total of 7 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 Fisheries¹, 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.

MAMMALS

NAME	STATUS
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: https://ecos.fws.gov/ecp/species/7965	Endangered

BIRDS

NAME	STATUS
Mexican Spotted Owl <i>Strix occidentalis lucida</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8196	Threatened
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6749	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: https://ecos.fws.gov/ecp/species/3911	Threatened

FISHES

NAME	STATUS
Rio Grande Cutthroat Trout <i>Oncorhynchus clarkii virginalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/920	Candidate

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate
Silverspot <i>Speyeria nokomis nokomis</i> There is proposed critical habitat for this species. Species profile: https://ecos.fws.gov/ecp/species/2813	Proposed Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

IPAC USER CONTACT INFORMATION

Agency: Army Corps of Engineers
Name: Michael Porter
Address: 4101 Jefferson Plaza
City: Albuquerque
State: NM
Zip: 87109
Email: michael.d.porter@usace.army.mil
Phone: 5053423264

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate
Silverspot <i>Speyeria nokomis nokomis</i> Wherever found There is proposed critical habitat for this species. https://ecos.fws.gov/ecp/species/2813	Proposed Threatened

Critical habitats

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

There are no critical habitats at this location.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- 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>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern \(BCC\)](#) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

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

NAME	BREEDING SEASON
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.	Breeds Dec 1 to Aug 31
California Gull <i>Larus californicus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 1 to Jul 31
Cassin's Finch <i>Carpodacus cassinii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9462	Breeds May 15 to Jul 15
Clark's Grebe <i>Aechmophorus clarkii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jun 1 to Aug 31
Clark's Nutcracker <i>Nucifraga columbiana</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Jan 15 to Jul 15

<p>Evening Grosbeak <i>Coccothraustes vespertinus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	<p>Breeds May 15 to Aug 10</p>
<p>Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679</p>	<p>Breeds elsewhere</p>
<p>Olive-sided Flycatcher <i>Contopus cooperi</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3914</p>	<p>Breeds May 20 to Aug 31</p>
<p>Pinyon Jay <i>Gymnorhinus cyanocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9420</p>	<p>Breeds Feb 15 to Jul 15</p>
<p>Virginia's Warbler <i>Vermivora virginiae</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9441</p>	<p>Breeds May 1 to Jul 31</p>
<p>Western Grebe <i>aechmophorus occidentalis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/6743</p>	<p>Breeds Jun 1 to Aug 31</p>

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey

effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

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

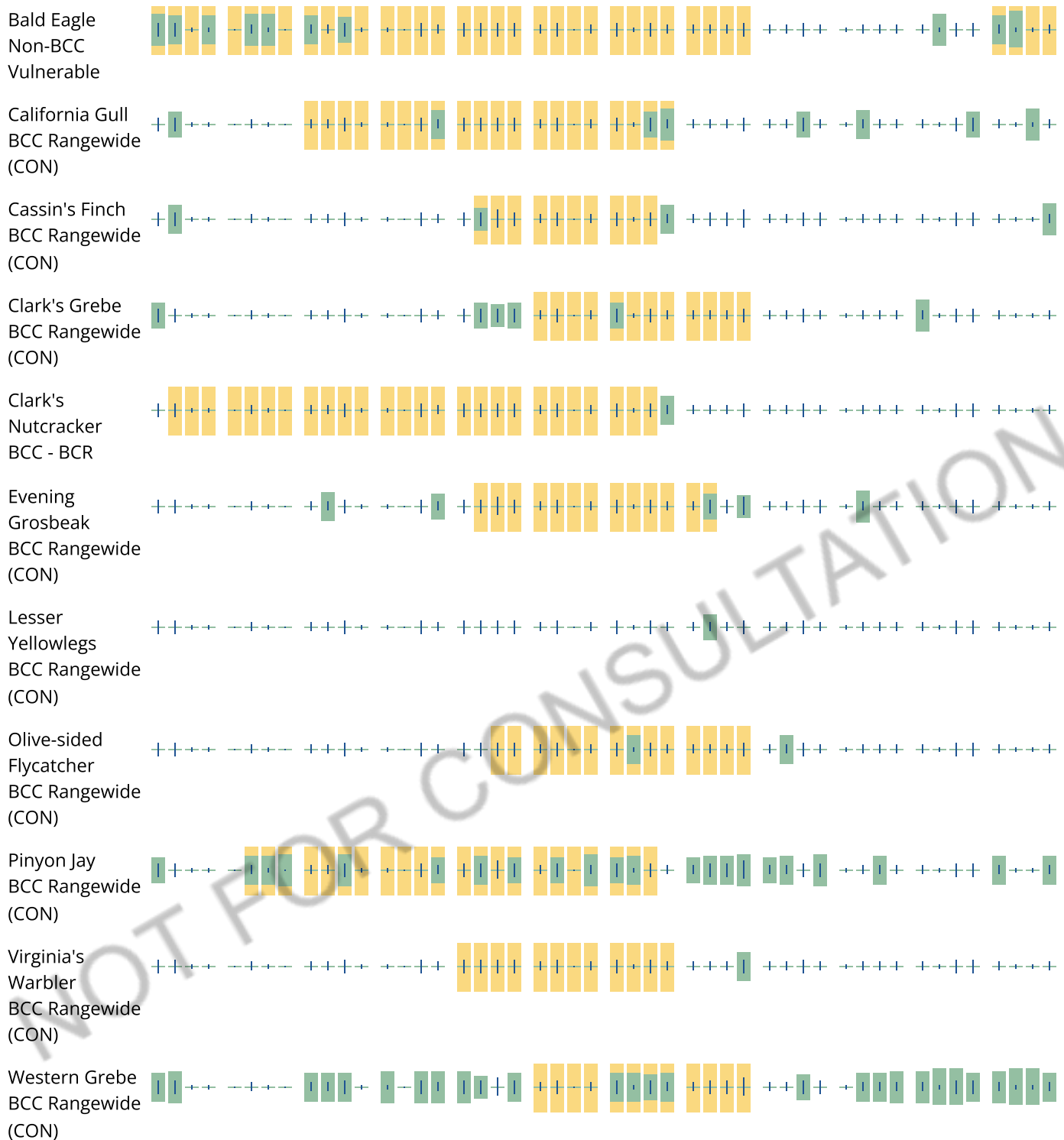
No Data (—)

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

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





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

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

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

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

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

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

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

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

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

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

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

Facilities

National Wildlife Refuge lands

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

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

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

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

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

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

[PEM1Ah](#)

[PEM1Jh](#)

[PEM1Ch](#)

[PEM1C](#)

FRESHWATER FORESTED/SHRUB WETLAND

[PSS5Fh](#)

[PSS1Ch](#)

FRESHWATER POND

[PUBFh](#)

LAKE

[L1UBHh](#)[L2UBGh](#)[L2UBHh](#)[L2USCh](#)[L2UBFh](#)[L2USAh](#)

RIVERINE

[R4SBJ](#)[R4SBC](#)[R5UBH](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

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

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

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

Data exclusions

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

been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

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

NOT FOR CONSULTATION