

**DRAFT**

**ENVIRONMENTAL ASSESSMENT**

*Proposed*

**Granada State Wildlife Area  
DISPOSAL**

**Involving Lands Owned by  
Colorado Division of Parks and Wildlife  
And  
Colorado Department of Transportation**

PROWERS COUNTY, COLORADO

WILDLIFE RESTORATION GRANT W-172-L

*Prepared by*

**Colorado Division of Parks and Wildlife  
(Denver, CO)**

*In cooperation with the*

**U.S. Fish and Wildlife Service –Wildlife and Sport Fish Restoration  
Region 6  
(Denver, CO)**

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## PURPOSE & NEED FOR THE PROPOSED ACTION

The Granada State Wildlife Area (SWA) is a 5,501-acre property located in Prowers County in southeastern Colorado (Figure 1) owned by the Colorado Division of Parks and Wildlife (CPW.) A large portion of the SWA, approximately 3,300 acres, was acquired by CPW with funding from the Wildlife Restoration (WR) Grant Program administered by the U.S. Fish and Wildlife Service (Service). The purpose of the property acquired with WR Grant Program funds is to preserve and manage wildlife habitat and provide public hunting opportunities in the vicinity of the Arkansas River.

CPW is proposing to relinquish a 3.08 acre parcel of property in the SWA to the Colorado Department of Transportation (CDOT), the land required to make structural improvements to US Highway 50. In an effort to increase safety for travelers along this highway, CDOT plans to relocate a railroad overpass and bridge, and realign a portion of the highway just east of the town of Granada (Figure 2). As part of the highway realignment, a portion of the road would cross approximately three acres of the SWA. Consequently, CPW would offer to sell that parcel to CDOT at the fair market value of the property. The 3.08 acre parcel proposed for disposal is part of the property originally acquired by CPW with WR Grant Program funds in Grant W-172-L.

Figure 1. General Location of Parcel Proposed for Disposal at the Granada SWA.

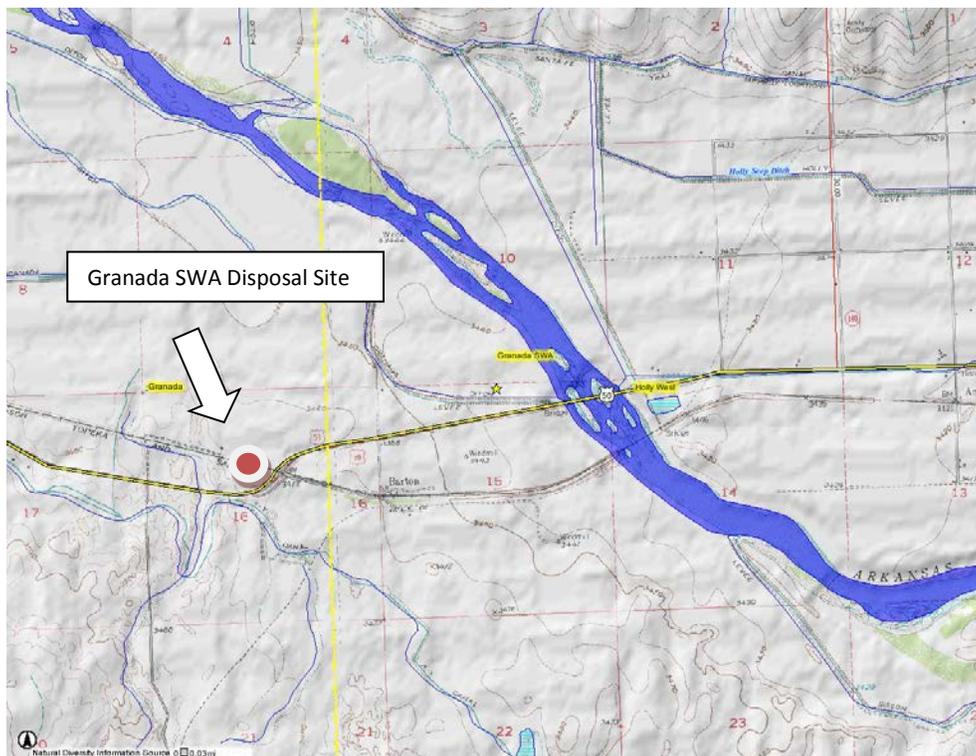
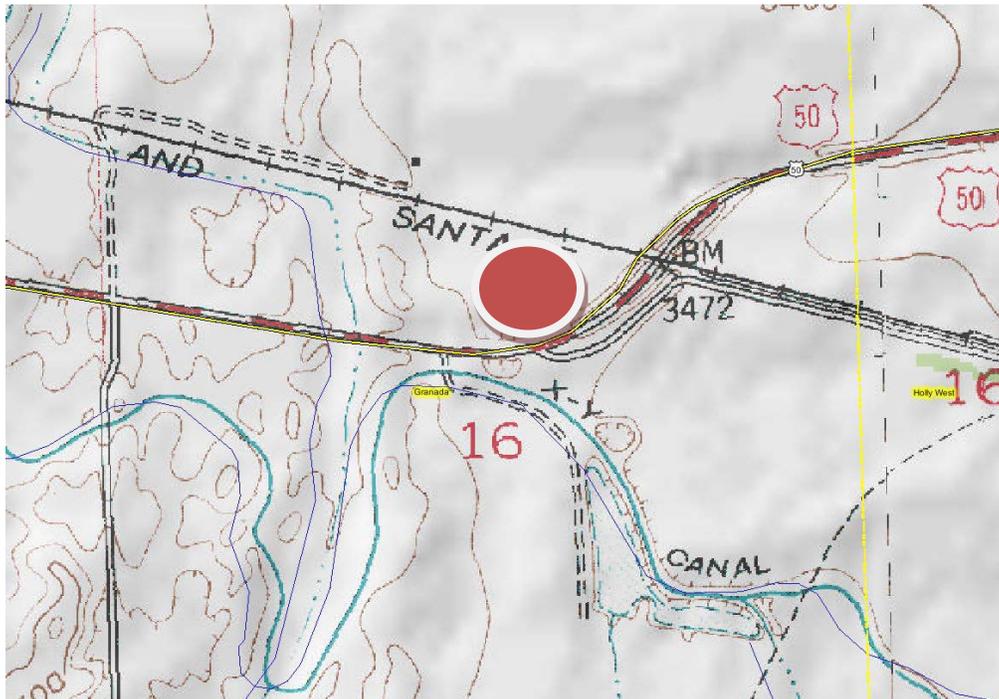


Figure 2. A More Detailed Map of the Disposal Parcel Location



CPW has determined that the parcel to be disposed no longer serves the purpose for which it was originally acquired (i.e. providing wildlife habitat and public use) because the parcel abuts both US Highway 50 and the Burlington Northern Santa Fe railroad, and is located over one mile from the Arkansas River where the majority of public hunting would occur and valuable wildlife habitat exists.

## ALTERNATIVES

### Alternative A: Preferred Action

CPW would sell 3.08 acres of Granada SWA property to the CDOT for the land necessary to make improvements to US Highway 50. CDOR would be required to pay CPW the appraised market value of the parcel, which is \$1,300.

### Alternative B: No Action

CPW would not sell the 3.08 acre parcel to CDOT. If the design requirements for the highway modifications could be met by a different parcel in the immediate area, CDOT likely would enter into a land transaction with a private landowner. If no other land in the vicinity could meet the design specifications, CDOT would not be able to make the planned modifications and US Highway 50 would remain in its current condition.

## **THE AFFECTED ENVIRONMENT**

### **Location**

Granada SWA is located in Prowers County in southeastern Colorado. The 3.08-acre parcel of the SWA proposed for sale to CDOW is situated along US Highway 50 approximately one mile east of the town of Granada and 22 miles east of the town of Lamar (Figure 1.) The parcel abuts the existing right-of-way for Highway 50 in Section 16 at Township 23 South, Range 43 West.

### **Historic Use and Current Management**

The land comprising the SWA was acquired by CPW in 1997 as part of what had historically been irrigated farm ground. From 1890 to 1996, this area was irrigated via the XY Canal that runs through this area (CDOT 2012). When the surface water rights were sold off and diverted for municipal use, the agricultural and wildlife habitat value of the land declined substantially. More recently, this canal has filled and vegetation has invaded, which has negatively impacted the ability of the canal to convey water. Today, a large portion of the Granada SWA is being dry-land farmed under an ‘exchange-of-use’ agreement with a local farmer. This property was originally purchased primarily for hunting access along the Arkansas River. The disposal parcel is located in a portion of the property that really does not contribute to this public access.

### **Physical Environment**

#### Landscape

The parcel proposed for disposal is characterized by 0-3 percent slope, disturbed dry agricultural land. If undisturbed, this site would naturally be characterized as short grass prairie (Appendix A).

#### Air Quality

The Air Quality Index value in Prowers County is 46.8, which is in the “Good” level of health concern ([www.usa.com/prowers-county-co-air-quality](http://www.usa.com/prowers-county-co-air-quality)). Average total suspended particulates (primarily dust) are typical to other Colorado counties, or occasionally a bit higher due to agricultural practices occurring in this county. Average particulate matter is much lower in Prowers County, as well as in Colorado in general, than the U.S. mean.

#### Geological Resources

The geology in Prowers County is primarily characterized by the following formations (Geologic Units in Prowers County, Colorado, USGS)

- Ogallala Formation (33%);
- Carlile Shale, Greenhorn Limestone, and Graneros Shale (21%);
- Dakota Sandstone and Purgatoire Formation (13%);
- Niobrara Formation (13%);
- Eolian deposits (8%); *and*
- Modern alluvium (7%)

The remaining geology (5%) is characterized by alluviums, gravels, intrusive rocks, and loess.

### Soils & Topography

The parcel proposed for disposal is characterized by 0-3 percent slopes (CDOT 2012) and the site soils classify mainly as Rocky Ford clay loam, Colby fine sandy loam, Tivoli sand, Kornman clay loam, and Colby silt loam and range from excessively drained to well-drained class.

### Water Resources

Based on preliminary geotechnical foundation borings, groundwater was encountered between 28-45 feet at this site (CDOT 2012). The Granada Creek is located nearby but is usually dry and only very occasionally exhibits intermittent flows. The Arkansas River flows year round north of this site.

### **Floodplains & Wetlands**

The parcel proposed for disposal does not include any wetlands or lie within a floodplain (Appendix A).

### **Biological Environment**

#### Vegetation

The parcel proposed for disposal is characterized by disturbed dry agricultural land. If undisturbed this site would be naturally characterized as short grass prairie.

#### Wildlife

Because of its immediate proximity to Hwy. 50 and its small size, this parcel has negligible wildlife value (CPW Senior Terrestrial Biologist & staff, 2013). From the late 1800s to 1996, the area was irrigated agricultural land. After 1996, surface water rights were sold off and diverted to municipal use, which negatively affected the value of the land for wildlife and habitat. Since CPW's purchase of the land in 1997, a large portion of the SWA is being dry-land farmed under an 'exchange-of-use' agreement with a local farmer.

The list of wildlife species in Appendix B, which represents what wildlife species that *may* be found in the area and across a typical short grass prairie ecosystem in southeastern Colorado, was obtained from CPW's Natural Diversity Information Source (NDIS) database. The list is not the result of an on-the-ground inventory of the parcel proposed for disposal.

#### Special Status Species

The following are the Federally-listed endangered, threatened, proposed, or candidate species that may occur in Prowers County, Colorado.

- |                                                                               |                     |
|-------------------------------------------------------------------------------|---------------------|
| • <b>Least tern</b> , <i>Interior Population</i> ( <i>Sterna antillarum</i> ) | Endangered          |
| • <b>Lesser prairie-chicken</b> ( <i>Tympanuchus pallidicinctus</i> )         | Proposed Threatened |
| • <b>Piping Plover</b> ( <i>Charadrius melodus</i> )                          | Threatened          |
| • <b>Arkansas darter</b> ( <i>Etheostoma cragini</i> )                        | Candidate           |

In Prowers County, no Federally-listed mammal, amphibian, reptile, insect, or plant species occur.

In the past, three historic lesser prairie chickens leks have been observed southeast of the parcel proposed for disposal. These leks occurred approximately three miles to the southeast and were located in a mixed sand sagebrush (*Artemisia filifolia*)/shortgrass community. However, since the severe blizzard of 2006-07, no birds have been observed at any of these leks.

Due to unsuitable habitat and the lack of water sources on the parcel proposed for disposal, the interior least tern, piping plover, and Arkansas darter does not occur there.

### **Archaeological, Historical, & Cultural Resources**

The outcrop within the area of the parcel proposed for disposal is Holocene in age (less than 10,000 radiocarbon years old) according to the best available geologic map of the area (Voegeli & Hershey, 1965). No previously recorded fossil localities occur within the parcel proposed for disposal and the surrounding project area, and a pedestrian survey of the project area conducted in April 2012 yielded negative results, according to the CDOW paleontologist (CDOT, 2012#2).

Based on the results of this survey and existing information regarding the project area's lack of historic or archaeological resources eligible for the National Register, the Colorado State Historic Preservation Office concurred with the finding of "no historic properties affected" with regard to structural resource findings at this site, as well as "no adverse effect with regard to two resources (small portions of the railroad grade and the XY Canal) identified at the site. Clearance to proceed was recommended for this project in correspondence dated May 25, 2012 (Appendix C).

### **Socio-Economic Resources**

In 2011, the population of Prowers County was 12,549. This area is home to generations of farmers and ranchers with children, elderly retirees, and a growing Hispanic population. The largest city in the general vicinity of the parcel proposed for disposal is Lamar, located 22 miles to the west along US Highway 50. Currently, the population of Lamar is 8,900. Lamar serves as a major hub for economic, educational, recreational, and cultural activities in southeastern Colorado (Prowers County Economic Drivers, [www.Pro-Colorado.org](http://www.Pro-Colorado.org)).

In 2011, Prowers County had a per capita personal income (PCPI) of \$33,985. This PCPI ranked 41<sup>st</sup> in the state and was 77% of the state average of \$44,053, and 82% of the national average of \$41,560 PCPI. The 2011 PCPI reflected an increase of 4.6% from 2010. County net earnings range between 58%-74% of total personal income. The top five employers in the area include: City of Lamar, Dragon Frac Tank Production, Lamar School District Re-2, Prowers County, and Prowers Medical Center.

## ENVIRONMENTAL CONSEQUENCES

The Proposed Action would not negatively impact wildlife or cultural resources and would not limit hunting and fishing access to the Arkansas River in this area, and will allow CDOT to make important safety improvements for public transportation along US Highway 50 (Table 1.)

**Table 1. Summary of Potential Impacts of the Alternatives**

	<b>Effects of the Proposed Action</b>	<b>Effects of No Action</b>
<b>Physical Environment</b>	No aspects of the physical environment (landscape, air quality, geological & soils, topography, & water) will be directly impacted by this disposal.	No aspects of the physical environment will be directly impacted by no action.
<b>Wildlife</b>	No potential big game (deer and elk) or small game species (including waterfowl) would be impacted by this land disposal since the disposal site is located immediately adjacent to US Highway 50. Although, this parcel was purchased to provide needed access to the Arkansas River in this area, this disposal will not effectively limit access obtained with the original purchase of this parcel.	Approximately three acres of low priority hunting and fishing access would be retained by CPW.
<b>Special Status Species</b>	The parcel proposed for disposal does not consist of habitat suitable for any Federally-listed species known to occur in Prowers County. Therefore, there would be no adverse effects to Federally-listed species.	No known federally protected species will be impacted if this disposal does not occur.
<b>Hunting</b>	Only approximately 3 acres of low-priority hunting access would be removed from CPW ownership. So, for the most part hunting and fishing access opportunities will still exist to the public in this area.	Original hunting and fishing access opportunities will still exist to the public in this area if this action does not occur.
<b>Cultural Resources</b>	No known cultural or historical resources will be directly impacted by this disposal.	No known cultural or historical resources will be directly impacted by this action.

## CUMULATIVE IMPACTS

An important question in this environmental assessment is whether the present proposed action is likely to result in an unintended but significant cumulative effect.

A cumulative impact to the environment results from the incremental effects of present proposed actions when considered in light of past, present, or reasonably foreseeable future actions, regardless of who implements them. 40 C.F.R. §1508.7 defines a cumulative impacts as “the impact on the environment

which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (federal or non-federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.”

The loss of 3.08 acres from the 5,500-acre SWA (i.e., the Proposed Action) would not interfere with the purpose of the 5,500-acre SWA, or of the 3,300 acres acquired with WR Grant Program funds. Similarly, the relinquishment of 3.08 acres of land currently of negligible value for wildlife or public use, combined with past, present, or reasonably foreseeable future actions, would not result in significant cumulative loss of wildlife resources or public hunting and fishing lands at the SWA. The proposed action is a limited, one-time event. Any future traffic conditions that could require additional action by CDOT in this area or other future actions are really unforeseeable at this time.

## **PUBLIC INVOLVEMENT**

CPW held a Public Meeting at its Area 12 Office in Lamar, CO on July 30, 2013 at 7:00pm. No public members attended the meeting and, therefore, CPW knows of no public concern about this federal action.

## **LIST OF AGENCIES AND PEOPLE CONSULTED**

- Colorado Department of Transportation
- Colorado State Historical Society, State Historical Preservation Office
- Southeast Region Senior Terrestrial Biologist & staff
- US Geological Survey
- US Fish and Wildlife Service, Region 6 Wildlife and Sport Fish Restoration: Amanda Horvath, Otto Jose, David McGillivray, Jacqueline Trout

## **LITERATURE CITED**

- Air Quality Index value in Prowers County. [www.usa.com/prowers-county-co-air-quality](http://www.usa.com/prowers-county-co-air-quality)
- CDOT, 2012#1. *Paleontological assessment for project FBR 0505-045, US 50, Granda East and West*. CDOT correspondence from Stephen M. Wallace on May 3, 2012.
- CDOT, 2012#2. *Archaeological Resources Clearance, Project FBR 0505-045, Granada East and West*. CDOT correspondence from Lisa Streisfeld and August 23, 2012.
- Geologic Units in Prowers County, Colorado, USGS. [www.mrdata.usgs.gov/geology/state/](http://www.mrdata.usgs.gov/geology/state/)
- Natural Diversity Information Source (NDIS) Database. <http://ndis.nrel.colostate.edu/>
- Prowers County Economic Drivers. [www.Pro-Colorado.org](http://www.Pro-Colorado.org)
- Voegeli, P. T., Sr., and L. A. Hershey, 1965. *Geology and Ground-Water Resources of Prowers County, Colorado*. U.S. Geological Survey Water-Supply Paper 1772, 102 p.

**APPENDICES**

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**APPENDIX A – Photographs of the Granada SWA Disposal Site**



**APPENDIX B - Wildlife Species Known or Likely to Occur in Prowers County.**

<b>Group</b>	<b>Common Name</b>	<b>Scientific Name</b>	<b>Occurrence</b>	<b>Abundance</b>
Amphibians	<a href="#">Bullfrog</a>	<i>Rana catesbeiana</i>	Known to occur	Locally Common
Amphibians	<a href="#">Canyon Treefrog</a>	<i>Hyla arenicolor</i>	Likely to occur	Unknown
Amphibians	<a href="#">Couch's Spadefoot</a>	<i>Scaphiopus couchii</i>	Likely to occur	Unknown
Amphibians	<a href="#">Great Plains Toad</a>	<i>Bufo cognatus</i>	Known to occur	Rare
Amphibians	<a href="#">Green Toad</a>	<i>Bufo debilis</i>	Likely to occur	Unknown
Amphibians	<a href="#">New Mexico Spadefoot</a>	<i>Spea multiplicata</i>	Likely to occur	Unknown
Amphibians	<a href="#">Northern Leopard Frog</a>	<i>Rana pipiens</i>	Likely to occur	Unknown
Amphibians	<a href="#">Plains Leopard Frog</a>	<i>Rana blairi</i>	Known to occur	Unknown
Amphibians	<a href="#">Plains Spadefoot</a>	<i>Spea bombifrons</i>	Known to occur	Uncommon
Amphibians	<a href="#">Red-spotted Toad</a>	<i>Bufo punctatus</i>	Known to occur	Locally Common
Amphibians	<a href="#">Tiger Salamander</a>	<i>Ambystoma tigrinum</i>	Known to occur	Common
Amphibians	<a href="#">Western Chorus Frog</a>	<i>Pseudacris triseriata</i>	Likely to occur	Unknown
Amphibians	<a href="#">Woodhouse's Toad</a>	<i>Bufo woodhousii</i>	Known to occur	Locally Common
Birds	<a href="#">American Avocet</a>	<i>Recurvirostra americana</i>	Known to occur	Unknown
Birds	<a href="#">American Bittern</a>	<i>Botaurus lentiginosus</i>	Known to occur	Unknown
Birds	<a href="#">American Coot</a>	<i>Fulica americana</i>	Known to occur	Uncommon
Birds	<a href="#">American Crow</a>	<i>Corvus brachyrhynchos</i>	Known to occur	Uncommon
Birds	<a href="#">American Golden Plover</a>	<i>Pluvialis dominica</i>	Known to	Unknown

			occur	
Birds	<a href="#">American Goldfinch</a>	<i>Carduelis tristis</i>	Known to occur	Uncommon
Birds	<a href="#">American Kestrel</a>	<i>Falco sparverius</i>	Known to occur	Fairly Common
Birds	<a href="#">American Peregrine Falcon</a>	<i>Falco peregrinus anatum</i>	Known to occur	Unknown
Birds	<a href="#">American Pipit</a>	<i>Anthus rubescens</i>	Known to occur	Unknown
Birds	<a href="#">American Redstart</a>	<i>Setophaga ruticilla</i>	Known to occur	Unknown
Birds	<a href="#">American Robin</a>	<i>Turdus migratorius</i>	Known to occur	Abundant
Birds	<a href="#">American Tree Sparrow</a>	<i>Spizella arborea</i>	Known to occur	Unknown
Birds	<a href="#">American White Pelican</a>	<i>Pelecanus erythrorhynchos</i>	Known to occur	Unknown
Birds	<a href="#">American Wigeon</a>	<i>Anas americana</i>	Known to occur	Unknown
Birds	<a href="#">Ash-throated Flycatcher</a>	<i>Myiarchus cinerascens</i>	Known to occur	Rare
Birds	<a href="#">Baird's Sandpiper</a>	<i>Calidris bairdii</i>	Known to occur	Unknown
Birds	<a href="#">Bald Eagle</a>	<i>Haliaeetus leucocephalus</i>	Known to occur	Unknown
Birds	<a href="#">Baltimore Oriole</a>	<i>Icterus galbula</i>	Known to occur	Unknown
Birds	<a href="#">Bank Swallow</a>	<i>Riparia riparia</i>	Known to occur	Unknown
Birds	<a href="#">Barn Owl</a>	<i>Tyto alba</i>	Known to occur	Uncommon
Birds	<a href="#">Barn Swallow</a>	<i>Hirundo rustica</i>	Known to occur	Abundant
Birds	<a href="#">Barrow's Goldeneye</a>	<i>Bucephala islandica</i>	Known to occur	Unknown
Birds	<a href="#">Bell's Vireo</a>	<i>Vireo bellii</i>	Known to occur	Unknown

Birds	<a href="#">Belted Kingfisher</a>	<i>Ceryle alcyon</i>	Known to occur	Uncommon
Birds	<a href="#">Bewick's Wren</a>	<i>Thryomanes bewickii</i>	Known to occur	Rare
Birds	<a href="#">Black Tern</a>	<i>Chlidonias niger</i>	Known to occur	Unknown
Birds	<a href="#">Black-and-white Warbler</a>	<i>Mniotilta varia</i>	Likely to occur	No Occurrence
Birds	<a href="#">Black-bellied Plover</a>	<i>Pluvialis squatarola</i>	Likely to occur	No Occurrence
Birds	<a href="#">Black-billed Magpie</a>	<i>Pica pica</i>	Known to occur	Common
Birds	<a href="#">Black-capped Chickadee</a>	<i>Poecile atricapillus</i>	Known to occur	Uncommon
Birds	<a href="#">Black-crowned Night-Heron</a>	<i>Nycticorax nycticorax</i>	Known to occur	Unknown
Birds	<a href="#">Black-headed Grosbeak</a>	<i>Pheucticus melanocephalus</i>	Known to occur	Fairly Common
Birds	<a href="#">Black-necked Stilt</a>	<i>Himantopus mexicanus</i>	Known to occur	Unknown
Birds	<a href="#">Blackpoll Warbler</a>	<i>Dendroica striata</i>	Known to occur	Unknown
Birds	<a href="#">Black-throated Gray Warbler</a>	<i>Dendroica nigrescens</i>	Known to occur	Unknown
Birds	<a href="#">Black-throated Sparrow</a>	<i>Amphispiza bilineata</i>	Known to occur	Unknown
Birds	<a href="#">Blue Grosbeak</a>	<i>Guiraca caerulea</i>	Known to occur	Fairly Common
Birds	<a href="#">Blue Jay</a>	<i>Cyanocitta cristata</i>	Known to occur	Fairly Common
Birds	<a href="#">Blue-gray Gnatcatcher</a>	<i>Poliophtila caerulea</i>	Known to occur	Unknown
Birds	<a href="#">Blue-winged Teal</a>	<i>Anas discors</i>	Known to occur	Uncommon
Birds	<a href="#">Bobolink</a>	<i>Dolichonyx oryzivorus</i>	Known to occur	Unknown
Birds	<a href="#">Bonaparte's Gull</a>	<i>Larus philadelphia</i>	Likely to occur	No Occurrence

Birds	<a href="#">Brewer's Blackbird</a>	<i>Euphagus cyanocephalus</i>	Known to occur	Fairly Common
Birds	<a href="#">Brewer's Sparrow</a>	<i>Spizella breweri</i>	Known to occur	Unknown
Birds	<a href="#">Brown Creeper</a>	<i>Certhia americana</i>	Known to occur	Unknown
Birds	<a href="#">Brown Thrasher</a>	<i>Toxostoma rufum</i>	Known to occur	Uncommon
Birds	<a href="#">Brown-headed Cowbird</a>	<i>Molothrus ater</i>	Known to occur	Common
Birds	<a href="#">Bufflehead</a>	<i>Bucephala albeola</i>	Known to occur	Unknown
Birds	<a href="#">Bullock's Oriole</a>	<i>Icterus bullockii</i>	Known to occur	Common
Birds	<a href="#">California Gull</a>	<i>Larus californicus</i>	Known to occur	Unknown
Birds	<a href="#">Canada Goose</a>	<i>Branta canadensis</i>	Known to occur	Unknown
Birds	<a href="#">Canvasback</a>	<i>Aythya valisineria</i>	Known to occur	Unknown
Birds	<a href="#">Canyon Towhee</a>	<i>Pipilo fuscus</i>	Known to occur	Rare
Birds	<a href="#">Canyon Wren</a>	<i>Catherpes mexicanus</i>	Known to occur	Unknown
Birds	<a href="#">Carolina Wren</a>	<i>Thryothorus ludovicianus</i>	Known to occur	Unknown
Birds	<a href="#">Cassin's Kingbird</a>	<i>Tyrannus vociferans</i>	Known to occur	Uncommon
Birds	<a href="#">Cassin's Sparrow</a>	<i>Aimophila cassinii</i>	Known to occur	Abundant
Birds	<a href="#">Cattle Egret</a>	<i>Bubulcus ibis</i>	Known to occur	Unknown
Birds	<a href="#">Cedar Waxwing</a>	<i>Bombycilla cedrorum</i>	Known to occur	Unknown
Birds	<a href="#">Chestnut-collared Longspur</a>	<i>Calcarius ornatus</i>	Known to occur	Unknown
Birds	<a href="#">Chihuahuan Raven</a>	<i>Corvus cryptoleucus</i>	Known to occur	Uncommon

Birds	<a href="#">Chimney Swift</a>	<i>Chaetura pelagica</i>	Known to occur	Fairly Common
Birds	<a href="#">Chipping Sparrow</a>	<i>Spizella passerina</i>	Known to occur	Unknown
Birds	<a href="#">Cinnamon Teal</a>	<i>Anas cyanoptera</i>	Known to occur	Rare
Birds	<a href="#">Clark's Grebe</a>	<i>Aechmophorus clarkii</i>	Known to occur	Unknown
Birds	<a href="#">Clay-colored Sparrow</a>	<i>Spizella pallida</i>	Known to occur	Unknown
Birds	<a href="#">Cliff Swallow</a>	<i>Petrochelidon pyrrhonota</i>	Known to occur	Abundant
Birds	<a href="#">Common Goldeneye</a>	<i>Bucephala clangula</i>	Known to occur	Unknown
Birds	<a href="#">Common Grackle</a>	<i>Quiscalus quiscula</i>	Known to occur	Abundant
Birds	<a href="#">Common Loon</a>	<i>Gavia immer</i>	Known to occur	Unknown
Birds	<a href="#">Common Merganser</a>	<i>Mergus merganser</i>	Known to occur	Unknown
Birds	<a href="#">Common Nighthawk</a>	<i>Chordeiles minor</i>	Known to occur	Fairly Common
Birds	<a href="#">Common Raven</a>	<i>Corvus corax</i>	Known to occur	Unknown
Birds	<a href="#">Common Snipe</a>	<i>Gallinago gallinago</i>	Known to occur	Unknown
Birds	<a href="#">Common Tern</a>	<i>Sterna hirundo</i>	Likely to occur	No Occurrence
Birds	<a href="#">Common Yellowthroat</a>	<i>Geothlypis trichas</i>	Known to occur	Fairly Common
Birds	<a href="#">Cooper's Hawk</a>	<i>Accipiter cooperii</i>	Known to occur	Unknown
Birds	<a href="#">Curve-billed Thrasher</a>	<i>Toxostoma curvirostre</i>	Known to occur	Unknown
Birds	<a href="#">Dark-eyed Junco</a>	<i>Junco hyemalis</i>	Known to occur	Unknown
Birds	<a href="#">Dickcissel</a>	<i>Spiza americana</i>	Known to occur	Uncommon

Birds	<a href="#">Double-crested Cormorant</a>	<i>Phalacrocorax auritus</i>	Known to occur	Unknown
Birds	<a href="#">Downy Woodpecker</a>	<i>Picoides pubescens</i>	Known to occur	Uncommon
Birds	<a href="#">Eared Grebe</a>	<i>Podiceps nigricollis</i>	Known to occur	Unknown
Birds	<a href="#">Eastern Bluebird</a>	<i>Sialia sialis</i>	Known to occur	Very Rare
Birds	<a href="#">Eastern Kingbird</a>	<i>Tyrannus tyrannus</i>	Known to occur	Fairly Common
Birds	<a href="#">Eastern Meadowlark</a>	<i>Sturnella magna</i>	Known to occur	Casual/Accidental
Birds	<a href="#">Eastern Phoebe</a>	<i>Sayornis phoebe</i>	Known to occur	Unknown
Birds	<a href="#">Eastern Screech-Owl</a>	<i>Otus asio</i>	Known to occur	Uncommon
Birds	<a href="#">European Starling</a>	<i>Sturnus vulgaris</i>	Known to occur	Abundant
Birds	<a href="#">Evening Grosbeak</a>	<i>Coccothraustes vespertinus</i>	Known to occur	Unknown
Birds	<a href="#">Ferruginous Hawk</a>	<i>Buteo regalis</i>	Known to occur	Uncommon
Birds	<a href="#">Field Sparrow</a>	<i>Spizella pusilla</i>	Known to occur	Unknown
Birds	<a href="#">Forster's Tern</a>	<i>Sterna forsteri</i>	Known to occur	Unknown
Birds	<a href="#">Franklin's Gull</a>	<i>Larus pipixcan</i>	Known to occur	Unknown
Birds	<a href="#">Gadwall</a>	<i>Anas strepera</i>	Known to occur	Unknown
Birds	<a href="#">Golden Eagle</a>	<i>Aquila chrysaetos</i>	Known to occur	Uncommon
Birds	<a href="#">Golden-crowned Kinglet</a>	<i>Regulus satrapa</i>	Known to occur	Unknown
Birds	<a href="#">Grasshopper Sparrow</a>	<i>Ammodramus savannarum</i>	Known to occur	Fairly Common
Birds	<a href="#">Gray Catbird</a>	<i>Dumetella carolinensis</i>	Known to occur	Unknown

Birds	<a href="#">Gray Vireo</a>	<i>Vireo vicinior</i>	Known to occur	Unknown
Birds	<a href="#">Great Blue Heron</a>	<i>Ardea herodias</i>	Known to occur	Common
Birds	<a href="#">Great Crested Flycatcher</a>	<i>Myiarchus crinitus</i>	Known to occur	Unknown
Birds	<a href="#">Great Egret</a>	<i>Ardea alba</i>	Known to occur	Unknown
Birds	<a href="#">Great Horned Owl</a>	<i>Bubo virginianus</i>	Known to occur	Uncommon
Birds	<a href="#">Greater Roadrunner</a>	<i>Geococcyx californianus</i>	Known to occur	Rare
Birds	<a href="#">Greater Sandhill Crane</a>	<i>Grus canadensis tabida</i>	Known to occur	Unknown
Birds	<a href="#">Greater Scaup</a>	<i>Aythya marila</i>	Known to occur	Unknown
Birds	<a href="#">Greater White-fronted Goose</a>	<i>Anser albifrons</i>	Known to occur	Unknown
Birds	<a href="#">Greater Yellowlegs</a>	<i>Tringa melanoleuca</i>	Known to occur	Unknown
Birds	<a href="#">Great-tailed Grackle</a>	<i>Quiscalus mexicanus</i>	Known to occur	Fairly Common
Birds	<a href="#">Green Heron</a>	<i>Butorides virescens</i>	Known to occur	Unknown
Birds	<a href="#">Green-tailed Towhee</a>	<i>Pipilo chlorurus</i>	Known to occur	Unknown
Birds	<a href="#">Green-winged Teal</a>	<i>Anas crecca</i>	Known to occur	Rare
Birds	<a href="#">Hairy Woodpecker</a>	<i>Picoides villosus</i>	Known to occur	Rare
Birds	<a href="#">Harris' Sparrow</a>	<i>Zonotrichia querula</i>	Known to occur	Unknown
Birds	<a href="#">Hermit Thrush</a>	<i>Catharus guttatus</i>	Known to occur	Unknown
Birds	<a href="#">Hooded Merganser</a>	<i>Lophodytes cucullatus</i>	Known to occur	Unknown
Birds	<a href="#">Horned Grebe</a>	<i>Podiceps auritus</i>	Known to occur	Unknown

Birds	<a href="#">Horned Lark</a>	<i>Eremophila alpestris</i>	Known to occur	Abundant
Birds	<a href="#">House Finch</a>	<i>Carpodacus mexicanus</i>	Known to occur	Common
Birds	<a href="#">House Sparrow</a>	<i>Passer domesticus</i>	Known to occur	Abundant
Birds	<a href="#">House Wren</a>	<i>Troglodytes aedon</i>	Known to occur	Fairly Common
Birds	<a href="#">Indigo Bunting</a>	<i>Passerina cyanea</i>	Known to occur	Uncommon
Birds	<a href="#">Killdeer</a>	<i>Charadrius vociferus</i>	Known to occur	Abundant
Birds	<a href="#">Ladder-backed Woodpecker</a>	<i>Picoides scalaris</i>	Known to occur	Uncommon
Birds	<a href="#">Lapland Longspur</a>	<i>Calcarius lapponicus</i>	Known to occur	Unknown
Birds	<a href="#">Lark Bunting</a>	<i>Calamospiza melanocorys</i>	Known to occur	Common
Birds	<a href="#">Lark Sparrow</a>	<i>Chondestes grammacus</i>	Known to occur	Common
Birds	<a href="#">Lazuli Bunting</a>	<i>Passerina amoena</i>	Known to occur	Uncommon
Birds	<a href="#">Least Sandpiper</a>	<i>Calidris minutilla</i>	Known to occur	Unknown
Birds	<a href="#">Lesser Prairie-chicken</a>	<i>Tympanuchus pallidicinctus</i>	Known to occur	Uncommon
Birds	<a href="#">Lesser Scaup</a>	<i>Aythya affinis</i>	Known to occur	Unknown
Birds	<a href="#">Lesser Yellowlegs</a>	<i>Tringa flavipes</i>	Known to occur	Unknown
Birds	<a href="#">Lewis' Woodpecker</a>	<i>Melanerpes lewis</i>	Known to occur	Uncommon
Birds	<a href="#">Lincoln's Sparrow</a>	<i>Melospiza lincolnii</i>	Known to occur	Unknown
Birds	<a href="#">Little Blue Heron</a>	<i>Egretta caerulea</i>	Known to occur	Unknown
Birds	<a href="#">Loggerhead Shrike</a>	<i>Lanius ludovicianus</i>	Known to occur	Uncommon

Birds	<a href="#">Long-billed Curlew</a>	<i>Numenius americanus</i>	Known to occur	Uncommon
Birds	<a href="#">Long-billed Dowitcher</a>	<i>Limnodromus scolopaceus</i>	Known to occur	Unknown
Birds	<a href="#">Long-eared Owl</a>	<i>Asio otus</i>	Known to occur	Rare
Birds	<a href="#">MacGillivray's Warbler</a>	<i>Oporornis tolmiei</i>	Known to occur	Unknown
Birds	<a href="#">Mallard</a>	<i>Anas platyrhynchos</i>	Known to occur	Common
Birds	<a href="#">Marbled Godwit</a>	<i>Limosa fedoa</i>	Likely to occur	No Occurrence
Birds	<a href="#">Marsh Wren</a>	<i>Cistothorus palustris</i>	Known to occur	Unknown
Birds	<a href="#">McCown's Longspur</a>	<i>Calcarius mccownii</i>	Known to occur	Unknown
Birds	<a href="#">Mississippi Kite</a>	<i>Ictinia mississippiensis</i>	Known to occur	Fairly Common
Birds	<a href="#">Mountain Bluebird</a>	<i>Sialia currucoides</i>	Known to occur	Unknown
Birds	<a href="#">Mountain Chickadee</a>	<i>Poecile gambeli</i>	Known to occur	Unknown
Birds	<a href="#">Mountain Plover</a>	<i>Charadrius montanus</i>	Known to occur	Uncommon
Birds	<a href="#">Mourning Dove</a>	<i>Zenaida macroura</i>	Known to occur	Abundant
Birds	<a href="#">Northern Bobwhite</a>	<i>Colinus virginianus</i>	Known to occur	Fairly Common
Birds	<a href="#">Northern Cardinal</a>	<i>Cardinalis cardinalis</i>	Known to occur	Unknown
Birds	<a href="#">Northern Flicker</a>	<i>Colaptes auratus</i>	Known to occur	Fairly Common
Birds	<a href="#">Northern Goshawk</a>	<i>Accipiter gentilis</i>	Known to occur	Unknown
Birds	<a href="#">Northern Harrier</a>	<i>Circus cyaneus</i>	Known to occur	Uncommon
Birds	<a href="#">Northern Mockingbird</a>	<i>Mimus polyglottos</i>	Known to occur	Common

Birds	<a href="#">Northern Pintail</a>	<i>Anas acuta</i>	Known to occur	Rare
Birds	<a href="#">Northern Rough-winged Swallow</a>	<i>Stelgidopteryx serripennis</i>	Known to occur	Uncommon
Birds	<a href="#">Northern Shoveler</a>	<i>Anas clypeata</i>	Known to occur	Rare
Birds	<a href="#">Northern Waterthrush</a>	<i>Seiurus noveboracensis</i>	Known to occur	Unknown
Birds	<a href="#">Olive-sided Flycatcher</a>	<i>Contopus cooperi</i>	Known to occur	Unknown
Birds	<a href="#">Orange-crowned Warbler</a>	<i>Vermivora celata</i>	Known to occur	Unknown
Birds	<a href="#">Orchard Oriole</a>	<i>Icterus spurius</i>	Known to occur	Common
Birds	<a href="#">Osprey</a>	<i>Pandion haliaetus</i>	Known to occur	Unknown
Birds	<a href="#">Ovenbird</a>	<i>Seiurus aurocapillus</i>	Known to occur	Unknown
Birds	<a href="#">Pacific Loon</a>	<i>Gavia pacifica</i>	Likely to occur	No Occurrence
Birds	<a href="#">Pectoral Sandpiper</a>	<i>Calidris melanotos</i>	Known to occur	Unknown
Birds	<a href="#">Peregrine Falcon</a>	<i>Falco peregrinus</i>	Known to occur	Unknown
Birds	<a href="#">Pied-billed Grebe</a>	<i>Podilymbus podiceps</i>	Known to occur	Unknown
Birds	<a href="#">Pine Grosbeak</a>	<i>Pinicola enucleator</i>	Known to occur	Unknown
Birds	<a href="#">Pine Siskin</a>	<i>Carduelis pinus</i>	Known to occur	Unknown
Birds	<a href="#">Piping Plover</a>	<i>Charadrius melodus</i>	Known to occur	Unknown
Birds	<a href="#">Prairie Falcon</a>	<i>Falco mexicanus</i>	Known to occur	Rare
Birds	<a href="#">Purple Martin</a>	<i>Progne subis</i>	Known to occur	Unknown
Birds	<a href="#">Red-bellied Woodpecker</a>	<i>Melanerpes carolinus</i>	Known to occur	Unknown

Birds	<a href="#">Red-breasted Merganser</a>	<i>Mergus serrator</i>	Known to occur	Unknown
Birds	<a href="#">Red-breasted Nuthatch</a>	<i>Sitta canadensis</i>	Known to occur	Unknown
Birds	<a href="#">Red-eyed Vireo</a>	<i>Vireo olivaceus</i>	Known to occur	Unknown
Birds	<a href="#">Redhead</a>	<i>Aythya americana</i>	Known to occur	Unknown
Birds	<a href="#">Red-headed Woodpecker</a>	<i>Melanerpes erythrocephalus</i>	Known to occur	Fairly Common
Birds	<a href="#">Red-necked Phalarope</a>	<i>Phalaropus lobatus</i>	Likely to occur	No Occurrence
Birds	<a href="#">Red-tailed Hawk</a>	<i>Buteo jamaicensis</i>	Known to occur	Uncommon
Birds	<a href="#">Red-winged Blackbird</a>	<i>Agelaius phoeniceus</i>	Known to occur	Abundant
Birds	<a href="#">Ring-billed Gull</a>	<i>Larus delawarensis</i>	Known to occur	Unknown
Birds	<a href="#">Ring-necked Duck</a>	<i>Aythya collaris</i>	Known to occur	Unknown
Birds	<a href="#">Ring-necked Pheasant</a>	<i>Phasianus colchicus</i>	Known to occur	Fairly Common
Birds	<a href="#">Rock Dove</a>	<i>Columba livia</i>	Known to occur	Abundant
Birds	<a href="#">Rock Wren</a>	<i>Salpinctes obsoletus</i>	Known to occur	Uncommon
Birds	<a href="#">Rose-breasted Grosbeak</a>	<i>Pheucticus ludovicianus</i>	Known to occur	Unknown
Birds	<a href="#">Rough-legged Hawk</a>	<i>Buteo lagopus</i>	Known to occur	Unknown
Birds	<a href="#">Ruby-crowned Kinglet</a>	<i>Regulus calendula</i>	Known to occur	Unknown
Birds	<a href="#">Ruddy Duck</a>	<i>Oxyura jamaicensis</i>	Known to occur	Unknown
Birds	<a href="#">Sabine's Gull</a>	<i>Xema sabini</i>	Likely to occur	No Occurrence
Birds	<a href="#">Sage Thrasher</a>	<i>Oreoscoptes montanus</i>	Known to occur	Unknown

Birds	<a href="#">Sandhill Crane</a>	<i>Grus canadensis</i>	Known to occur	Unknown
Birds	<a href="#">Savannah Sparrow</a>	<i>Passerculus sandwichensis</i>	Known to occur	Unknown
Birds	<a href="#">Say's Phoebe</a>	<i>Sayornis saya</i>	Known to occur	Fairly Common
Birds	<a href="#">Scaled Quail</a>	<i>Callipepla squamata</i>	Known to occur	Common
Birds	<a href="#">Scissor-tailed Flycatcher</a>	<i>Tyrannus forficatus</i>	Known to occur	Unknown
Birds	<a href="#">Semipalmated Plover</a>	<i>Charadrius semipalmatus</i>	Likely to occur	No Occurrence
Birds	<a href="#">Semipalmated Sandpiper</a>	<i>Calidris pusilla</i>	Known to occur	Unknown
Birds	<a href="#">Sharp-shinned Hawk</a>	<i>Accipiter striatus</i>	Known to occur	Unknown
Birds	<a href="#">Short-eared Owl</a>	<i>Asio flammeus</i>	Known to occur	Unknown
Birds	<a href="#">Snow Goose</a>	<i>Chen caerulescens</i>	Known to occur	Unknown
Birds	<a href="#">Snowy Egret</a>	<i>Egretta thula</i>	Known to occur	Unknown
Birds	<a href="#">Snowy Plover</a>	<i>Charadrius alexandrinus</i>	Known to occur	Unknown
Birds	<a href="#">Solitary Sandpiper</a>	<i>Tringa solitaria</i>	Known to occur	Unknown
Birds	<a href="#">Song Sparrow</a>	<i>Melospiza melodia</i>	Known to occur	Unknown
Birds	<a href="#">Sora</a>	<i>Porzana carolina</i>	Known to occur	Uncommon
Birds	<a href="#">Spotted Sandpiper</a>	<i>Actitis macularia</i>	Known to occur	Uncommon
Birds	<a href="#">Spotted Towhee</a>	<i>Pipilo maculatus</i>	Known to occur	Unknown
Birds	<a href="#">Stilt Sandpiper</a>	<i>Calidris himantopus</i>	Known to occur	Unknown
Birds	<a href="#">Summer Tanager</a>	<i>Piranga rubra</i>	Likely to occur	No Occurrence

Birds	<a href="#">Swainson's Hawk</a>	<i>Buteo swainsoni</i>	Known to occur	Fairly Common
Birds	<a href="#">Swainson's Thrush</a>	<i>Catharus ustulatus</i>	Known to occur	Unknown
Birds	<a href="#">Swamp Sparrow</a>	<i>Melospiza georgiana</i>	Known to occur	Unknown
Birds	<a href="#">Tennessee Warbler</a>	<i>Vermivora peregrina</i>	Likely to occur	No Occurrence
Birds	<a href="#">Townsend's Solitaire</a>	<i>Myadestes townsendi</i>	Known to occur	Unknown
Birds	<a href="#">Tree Swallow</a>	<i>Tachycineta bicolor</i>	Known to occur	Unknown
Birds	<a href="#">Tundra Swan</a>	<i>Cygnus columbianus</i>	Likely to occur	No Occurrence
Birds	<a href="#">Turkey Vulture</a>	<i>Cathartes aura</i>	Known to occur	Uncommon
Birds	<a href="#">Upland Sandpiper</a>	<i>Bartramia longicauda</i>	Known to occur	Unknown
Birds	<a href="#">Veery</a>	<i>Catharus fuscescens</i>	Known to occur	Unknown
Birds	<a href="#">Vesper Sparrow</a>	<i>Poocetes gramineus</i>	Known to occur	Unknown
Birds	<a href="#">Virginia Rail</a>	<i>Rallus limicola</i>	Known to occur	Uncommon
Birds	<a href="#">Virginia's Warbler</a>	<i>Vermivora virginiae</i>	Known to occur	Unknown
Birds	<a href="#">Warbling Vireo</a>	<i>Vireo gilvus</i>	Known to occur	Unknown
Birds	<a href="#">Western Burrowing Owl</a>	<i>Athene cunicularia</i>	Known to occur	Uncommon
Birds	<a href="#">Western Grebe</a>	<i>Aechmophorus occidentalis</i>	Known to occur	Unknown
Birds	<a href="#">Western Kingbird</a>	<i>Tyrannus verticalis</i>	Known to occur	Common
Birds	<a href="#">Western Meadowlark</a>	<i>Sturnella neglecta</i>	Known to occur	Common
Birds	<a href="#">Western Sandpiper</a>	<i>Calidris mauri</i>	Known to occur	Unknown

Birds	<a href="#">Western Scrub Jay</a>	<i>Aphelocoma californica</i>	Known to occur	Unknown
Birds	<a href="#">Western Snowy Plover</a>	<i>Charadrius alexandrinus nivosus</i>	Known to occur	Unknown
Birds	<a href="#">Western Tanager</a>	<i>Piranga ludoviciana</i>	Known to occur	Unknown
Birds	<a href="#">Western Wood-Pewee</a>	<i>Contopus sordidulus</i>	Known to occur	Uncommon
Birds	<a href="#">Whimbrel</a>	<i>Numenius phaeopus</i>	Likely to occur	No Occurrence
Birds	<a href="#">White-breasted Nuthatch</a>	<i>Sitta carolinensis</i>	Known to occur	Unknown
Birds	<a href="#">White-crowned Sparrow</a>	<i>Zonotrichia leucophrys</i>	Known to occur	Unknown
Birds	<a href="#">White-faced Ibis</a>	<i>Plegadis chihi</i>	Known to occur	Unknown
Birds	<a href="#">White-rumped Sandpiper</a>	<i>Calidris fuscicollis</i>	Known to occur	Unknown
Birds	<a href="#">White-throated Sparrow</a>	<i>Zonotrichia albicollis</i>	Likely to occur	No Occurrence
Birds	<a href="#">Wild Turkey</a>	<i>Meleagris gallopavo</i>	Known to occur	Rare
Birds	<a href="#">Willet</a>	<i>Catoptrophorus semipalmatus</i>	Known to occur	Unknown
Birds	<a href="#">Wilson's Phalarope</a>	<i>Phalaropus tricolor</i>	Known to occur	Unknown
Birds	<a href="#">Wilson's Warbler</a>	<i>Wilsonia pusilla</i>	Known to occur	Unknown
Birds	<a href="#">Wood Duck</a>	<i>Aix sponsa</i>	Known to occur	Uncommon
Birds	<a href="#">Wood Thrush</a>	<i>Hylocichla mustelina</i>	Known to occur	Unknown
Birds	<a href="#">Yellow Warbler</a>	<i>Dendroica petechia</i>	Known to occur	Fairly Common
Birds	<a href="#">Yellow-billed Cuckoo</a>	<i>Coccyzus americanus</i>	Known to occur	Rare
Birds	<a href="#">Yellow-breasted Chat</a>	<i>Icteria virens</i>	Known to occur	Uncommon

Birds	<a href="#">Yellow-crowned Night-Heron</a>	<i>Nyctanassa violacea</i>	Known to occur	Unknown
Birds	<a href="#">Yellow-headed Blackbird</a>	<i>Xanthocephalus xanthocephalus</i>	Known to occur	Common
Birds	<a href="#">Yellow-rumped Warbler</a>	<i>Dendroica coronata</i>	Known to occur	Unknown
Mammals	<a href="#">American Badger</a>	<i>Taxidea taxus</i>	Known to occur	Fairly Common
Mammals	<a href="#">American Beaver</a>	<i>Castor canadensis</i>	Known to occur	Fairly Common
Mammals	<a href="#">American Elk</a>	<i>Cervus elaphus</i>	Known to occur	Casual/Accidental
Mammals	<a href="#">Big Brown Bat</a>	<i>Eptesicus fuscus</i>	Likely to occur	Unknown
Mammals	<a href="#">Big Free-tailed Bat</a>	<i>Nyctinomops macrotis</i>	Likely to occur	Unknown
Mammals	<a href="#">Black-tailed Jackrabbit</a>	<i>Lepus californicus</i>	Known to occur	Common
Mammals	<a href="#">Black-tailed Prairie Dog</a>	<i>Cynomys ludovicianus</i>	Known to occur	Fairly Common
Mammals	<a href="#">Bobcat</a>	<i>Lynx rufus</i>	Known to occur	Fairly Common
Mammals	<a href="#">Common Muskrat</a>	<i>Ondatra zibethicus</i>	Known to occur	Common
Mammals	<a href="#">Common Porcupine</a>	<i>Erethizon dorsatum</i>	Known to occur	Uncommon
Mammals	<a href="#">Coyote</a>	<i>Canis latrans</i>	Known to occur	Common
Mammals	<a href="#">Deer Mouse</a>	<i>Peromyscus maniculatus</i>	Known to occur	Abundant
Mammals	<a href="#">Desert Cottontail</a>	<i>Sylvilagus audubonii</i>	Known to occur	Common
Mammals	<a href="#">Eastern Spotted Skunk</a>	<i>Spilogale putorius</i>	Known to occur	Rare
Mammals	<a href="#">Eastern Woodrat</a>	<i>Neotoma floridana</i>	Known to occur	Unknown
Mammals	<a href="#">Fox Squirrel</a>	<i>Sciurus niger</i>	Known to occur	Common

Mammals	<a href="#">Gray Fox</a>	<i>Urocyon cinereoargenteus</i>	Likely to occur	Unknown
Mammals	<a href="#">Hispid Cotton Rat</a>	<i>Sigmodon hispidus</i>	Known to occur	Common
Mammals	<a href="#">Hispid Pocket Mouse</a>	<i>Chaetodipus hispidus</i>	Known to occur	Fairly Common
Mammals	<a href="#">Hoary Bat</a>	<i>Lasiurus cinereus</i>	Known to occur	Common
Mammals	<a href="#">House Mouse</a>	<i>Mus musculus</i>	Known to occur	Abundant
Mammals	<a href="#">Little Brown Myotis</a>	<i>Myotis lucifugus</i>	Likely to occur	Unknown
Mammals	<a href="#">Long-tailed Weasel</a>	<i>Mustela frenata</i>	Known to occur	Uncommon
Mammals	<a href="#">Mexican Woodrat</a>	<i>Neotoma mexicana</i>	Known to occur	Fairly Common
Mammals	<a href="#">Mountain Lion</a>	<i>Felis concolor</i>	Likely to occur	Unknown
Mammals	<a href="#">Mule Deer</a>	<i>Odocoileus hemionus</i>	Known to occur	Common
Mammals	<a href="#">Northern Grasshopper Mouse</a>	<i>Onychomys leucogaster</i>	Known to occur	Fairly Common
Mammals	<a href="#">Ord's Kangaroo Rat</a>	<i>Dipodomys ordii</i>	Known to occur	Common
Mammals	<a href="#">Pinyon Mouse</a>	<i>Peromyscus truei</i>	Known to occur	Common
Mammals	<a href="#">Plains Harvest Mouse</a>	<i>Reithrodontomys montanus</i>	Known to occur	Uncommon
Mammals	<a href="#">Plains Pocket Gopher</a>	<i>Geomys bursarius</i>	Known to occur	Fairly Common
Mammals	<a href="#">Pronghorn</a>	<i>Antilocapra americana</i>	Known to occur	Fairly Common
Mammals	<a href="#">Raccoon</a>	<i>Procyon lotor</i>	Known to occur	Common
Mammals	<a href="#">Red Bat</a>	<i>Lasiurus borealis</i>	Known to occur	Rare
Mammals	<a href="#">Red Fox</a>	<i>Vulpes vulpes</i>	Known to occur	Common

Mammals	<a href="#">Silky Pocket Mouse</a>	<i>Perognathus flavus</i>	Known to occur	Fairly Common
Mammals	<a href="#">Silver-haired Bat</a>	<i>Lasionycteris noctivagans</i>	Likely to occur	Unknown
Mammals	<a href="#">Southern Plains Woodrat</a>	<i>Neotoma micropus</i>	Known to occur	Fairly Common
Mammals	<a href="#">Spotted Ground Squirrel</a>	<i>Spermophilus spilosoma</i>	Known to occur	Uncommon
Mammals	<a href="#">Striped Skunk</a>	<i>Mephitis mephitis</i>	Known to occur	Common
Mammals	<a href="#">Swift Fox</a>	<i>Vulpes velox</i>	Known to occur	Uncommon
Mammals	<a href="#">Thirteen-lined Ground Squirrel</a>	<i>Spermophilus tridecemlineatus</i>	Known to occur	Common
Mammals	<a href="#">Virginia Opossum</a>	<i>Didelphis virginiana</i>	Known to occur	Fairly Common
Mammals	<a href="#">Western Harvest Mouse</a>	<i>Reithrodontomys megalotis</i>	Known to occur	Fairly Common
Mammals	<a href="#">White-footed Mouse</a>	<i>Peromyscus leucopus</i>	Known to occur	Common
Mammals	<a href="#">White-tailed Deer</a>	<i>Odocoileus virginianus</i>	Known to occur	Common
Mammals	<a href="#">White-throated Woodrat</a>	<i>Neotoma albigula</i>	Known to occur	Fairly Common
Mammals	<a href="#">Yellow-faced Pocket Gopher</a>	<i>Cratogeomys castanops</i>	Known to occur	Fairly Common
Mammals	<a href="#">Yuma Myotis</a>	<i>Myotis yumanensis</i>	Likely to occur	Unknown
Reptiles	<a href="#">Blackneck Garter Snake</a>	<i>Thamnophis cyrtopsis</i>	Likely to occur	Unknown
Reptiles	<a href="#">Coachwhip</a>	<i>Masticophis flagellum</i>	Known to occur	Uncommon
Reptiles	<a href="#">Collared Lizard</a>	<i>Crotaphytus collaris</i>	Known to occur	Uncommon
Reptiles	<a href="#">Common Kingsnake</a>	<i>Lampropeltis getula</i>	Likely to occur	Unknown
Reptiles	<a href="#">Diploid Checkered Whiptail</a>	<i>Cnemidophorus tesselatus</i>	Known to occur	Unknown

Reptiles	<a href="#">Fence Lizard</a>	<i>Sceloporus undulatus</i>	Known to occur	Common
Reptiles	<a href="#">Glossy Snake</a>	<i>Arizona elegans</i>	Known to occur	Rare
Reptiles	<a href="#">Gopher Snake</a>	<i>Pituophis catenifer</i>	Known to occur	Sparsely Common
Reptiles	<a href="#">Great Plains Skink</a>	<i>Eumeces obsoletus</i>	Known to occur	Uncommon
Reptiles	<a href="#">Lesser Earless Lizard</a>	<i>Holbrookia maculata</i>	Known to occur	Locally Common
Reptiles	<a href="#">Lined Snake</a>	<i>Tropidoclonion lineatum</i>	Likely to occur	Unknown
Reptiles	<a href="#">Longnose Snake</a>	<i>Rhinocheilus lecontei</i>	Known to occur	Rare
Reptiles	<a href="#">Many-lined Skink</a>	<i>Eumeces multivirgatus</i>	Likely to occur	Unknown
Reptiles	<a href="#">Massasauga</a>	<i>Sistrurus catenatus</i>	Known to occur	Rare
Reptiles	<a href="#">Midget Faded Rattlesnake</a>	<i>Crotalus viridis concolor</i>	Known to occur	Uncommon
Reptiles	<a href="#">Milk Snake</a>	<i>Lampropeltis triangulum</i>	Known to occur	Rare
Reptiles	<a href="#">Night Snake</a>	<i>Hypsiglena torquata</i>	Likely to occur	Unknown
Reptiles	<a href="#">Northern Water Snake</a>	<i>Nerodia sipedon</i>	Known to occur	Uncommon
Reptiles	<a href="#">Ornate Box Turtle</a>	<i>Terrapene ornata</i>	Known to occur	Fairly Common
Reptiles	<a href="#">Painted Turtle</a>	<i>Chrysemys picta</i>	Known to occur	Uncommon
Reptiles	<a href="#">Plains Black-headed Snake</a>	<i>Tantilla nigriceps</i>	Known to occur	Rare
Reptiles	<a href="#">Plains Garter Snake</a>	<i>Thamnophis radix</i>	Known to occur	Fairly Common
Reptiles	<a href="#">Racer</a>	<i>Coluber constrictor</i>	Known to occur	Sparsely Common
Reptiles	<a href="#">Rat Snake</a>	<i>Elaphe guttata</i>	Known to occur	Rare

Reptiles	<a href="#">Ringneck Snake</a>	<i>Diadophis punctatus</i>	Likely to occur	Unknown
Reptiles	<a href="#">Six-lined Racerunner</a>	<i>Cnemidophorus sexlineatus</i>	Known to occur	Uncommon
Reptiles	<a href="#">Snapping Turtle</a>	<i>Chelydra serpentina</i>	Known to occur	Unknown
Reptiles	<a href="#">Spiny Softshell</a>	<i>Apalone spinifera</i>	Known to occur	Unknown
Reptiles	<a href="#">Texas Horned Lizard</a>	<i>Phrynosoma cornutum</i>	Known to occur	Unknown
Reptiles	<a href="#">Variable Skink</a>	<i>Eumeces gaigeae</i>	Likely to occur	Unknown
Reptiles	<a href="#">Western Hognose Snake</a>	<i>Heterodon nasicus</i>	Known to occur	Sparsely Common
Reptiles	<a href="#">Western Rattlesnake</a>	<i>Crotalus viridis</i>	Known to occur	Uncommon
Reptiles	<a href="#">Western Terrestrial Garter Snake</a>	<i>Thamnophis elegans</i>	Known to occur	Rare
Reptiles	<a href="#">Yellow Mud Turtle</a>	<i>Kinosternon flavescens</i>	Known to occur	Unknown

APPENDIX C – Cultural Resources SHPO Response

**MEMORANDUM**  
DEPARTMENT OF TRANSPORTATION

Environmental Programs Branch  
4201 East Arkansas Avenue  
Shumate Building  
Denver, Colorado 80222  
(303) 757-9011



TO: Rob Frei, Region 2  
FROM: Ashley L. Bushey, Environmental Programs Branch  
DATE: July 19, 2012  
RE: Section 106 Clearance and Finding of Section 4(f) *De Minimis Impact*, CDOT Project FBR 0505-045, Granada East and West Bridge Replacements, Prowers County

This memo is to notify you that we have completed the Section 106 and Section 4(f) *De Minimis* processes for this project.

**Section 106**

**SHPO Response**

CDOT consulted with the State Historic Preservation Officer (SHPO) and the Prowers County Historic Preservation Board, in the capacity of Consulting Party, in letters dated May 18, 2012. In correspondence dated May 25, 2012, SHPO concurred with the finding of *no historic properties affected* with regard to resources 5PW.116 (CDOT Structure L-27-M), 5PW.119 (CDOT Structure L-27-S), and 5PW.122 (CDOT Structure L-28-C). SHPO also concurred with the finding of *no adverse effect* with regard to resources 5PW.152 (Atchison Topeka & Santa Fe Railroad Grade) and 5PW.380 (XY Canal), including segments 5PW.152.8 and 5PW.380.1.

Prowers County confirmed no objections to the proposed scope or findings in correspondence dated June 7, 2012.

**Section 4(f) De Minimis**

**FHWA**

CDOT consulted with the Federal Highway Administration (FHWA) regarding the determination of Section 4(f) *de minimis* for two resources (5PW.152/5PW.152.8 and 5PW.380/5PW.380.1) in a letter dated July 17, 2012. FHWA concurred with the finding of *de minimis* impact on July 18, 2012.

Clearance to proceed on this project is recommended. As always, please notify me of any changes to the project scope that would require a re-evaluation of the clearance.

*ARJ 7.19.12*

RECEIVED

JUL 23 2012

North Program Engineers