

**Raptor Monitoring in the Pinedale Anticline Project Area
Sublette County, Wyoming**

FINAL REPORT



**Report Prepared for:
Wyoming Game and Fish Department,
Pinedale Anticline Project Office, and
Bureau of Land Management**

Pinedale, Wyoming

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**Pinedale Anticline Project Area
Raptor Monitoring
May-August 2012**

INTRODUCTION

The 2008 Record of Decision (ROD) for the Supplemental Environmental Impact Statement for the Pinedale Anticline Oil and Gas Exploration and Development Project in Sublette County, Wyoming (USDI-BLM 2008) requires the annual monitoring of raptor nests. Monitoring implemented under the 2008 ROD aims to protect and maintain existing raptor nesting habitat throughout the Pinedale Anticline Project Area (PAPA) to comply with the Endangered Species Act, Bald and Golden Eagle Protection Act, and Migratory Bird Treaty Act. Mitigation efforts for raptor nests within the PAPA include restricted development from February 1 to August 15, restricted surface occupancy for permanent and high profile structures within 1,000 feet of occupied raptor nests (1,400 feet for ferruginous hawks; 2,600 feet for bald eagles), and limited surface disturbing activity (e.g. construction, drilling, workover operations) from February 1 to July 31 within a 0.5-mile radius of all occupied raptor nests (one mile for ferruginous hawks) (USDI-BLM 2008). Within the PAPA, an active raptor nest is defined as one that has been occupied within the past three years (USDI-BLM 2008).

In addition to the above Acts, the ferruginous hawk (*Buteo regalis*) and burrowing owl (*Athene cunicularia*) are on the Bureau of Land Management (BLM) Sensitive Species List, and the bald eagle (*Haliaeetus leucocephalus*), burrowing owl, ferruginous hawk, short-eared owl (*Asio flammeus*) and Swainson's hawk (*Buteo swainsoni*) are Wyoming Game and Fish Department (WGFD) species of concern mainly due to loss of native habitat and increasing human activity and development. In 2010 and 2011, Hayden-Wing Associates, LLC (HWA) was contracted by the WGFD to report the activity and distribution of raptor nests throughout the PAPA. During 2012, HWA was contracted to report the activity and distribution of the following: 1) raptor nests in and within one mile of the Core and Potential Development Areas (C&PDA) within the PAPA, 2) burrowing owls in and within one mile of the C&PDA within the PAPA and 3) all known ferruginous hawk, bald eagle, and golden eagle (*Aquila chrysaetos*) nests in and within one mile of the PAPA.

PROJECT AREA

This raptor monitoring project was conducted within Sublette County, Wyoming, on the PAPA (198,037 acres). Surface land ownership is mainly BLM with small amounts of state and private land. Elevation ranges from approximately 6,850 feet to 7,750 feet, and average annual precipitation is about 10-12 inches (USDA-NRCS 2009). The PAPA is comprised primarily of Wyoming big sage land cover, with lesser amounts of desert shrub and irrigated croplands. Two rivers flow through the PAPA: the Green River in the west and the New Fork River in the east. Both river systems support riparian habitats consisting of large cottonwoods and willows. The majority of these riparian habitats are private land. There are five Core Development Areas within the middle of the PAPA that comprise approximately 45,400 acres where year round development occurs. The Potential Development Area surrounds the majority of the Core Development Area and has the potential for year round development.



METHODS

The following surveys were performed in accordance with the BLM's *Wildlife Survey Protocols – Pinedale Field Office, January 2011*. All spatial data described in this report were obtained using Trimble® Juno SB Global Positioning System (GPS) units. ArcGIS® 10 ESRI software was used to generate maps and conduct spatial analyses.

Ground surveys were conducted in and within one mile of the PAPA for raptor nests from May through August 2012. The locations of raptor nests were recorded using GPS equipment and USGS topographic maps. The nest status, condition, substrate, and species of raptor using the nest were documented.

Active raptor nests were surveyed monthly until the young fledged or the nest failed. Ground surveys were conducted during May to determine the activity status of nests, search for new or previously undocumented nests, and determine the productivity status of early nesting raptor species [i.e. great horned owl (*Bubo virginianus*)]. Surveys were conducted in June and July to determine productivity of mid-season species [i.e. red-tailed hawk (*Buteo jamaicensis*)]. Surveys were conducted in August to determine the productivity of late nesting species [i.e. Swainson's hawk and osprey (*Pandion haliaetus*)]. During all surveys, we opportunistically searched for new or previously undocumented nests. Nests were observed from a distance, using binoculars and scopes to avoid disturbing nesting birds, and to determine whether or not an adult bird was present on or in the vicinity of the nest. If an adult was present, the biologist remained at a distance and attempted to determine the age and number of young in the nest. If no adult birds were present, the area under and around nests were searched for sign of recent activity (fresh mite, regurgitated pellets, eggs, eggshell fragments, prey remains, etc.). Accurate locations of raptor nests were recorded using GPS equipment and USGS topographic maps and the nest status, condition, substrate, and species of raptor using the nest were documented.

The riparian area of the New Fork River provides abundant raptor nesting sites relatively close to concentrated development, but is almost exclusively private land. Permission was granted by a few landowners for ground surveys, but the majority of this riparian area was surveyed by two observers floating the river in an inflatable catamaran to determine productivity of active raptor nests and to search for new or previously undocumented nests. Remaining raptor nests on private land set back from the river were surveyed with a spotting scope from BLM or State land wherever possible.

Suitable burrowing owl habitat exists within the PAPA on scattered white-tailed prairie dog (*Cynomys leucurus*) colonies. Call-broadcast surveys for burrowing owls were conducted during May, June, July and August 2012 on known prairie dog colonies in the C&PDA and one-mile buffer. Surveys were conducted in the early morning (0.5 hours before sunrise until 2 hours after sunrise) and early evening (2 hours before sunset until 0.5 hours after sunset). Survey points were established that ensured visual coverage of the entire colony. Survey locations were separated by approximately 800 m (0.5 mile), though this value may have been adjusted as necessary to account for colony size and topography. Each location was surveyed by playing primary male (*coo-coo*) and alarm (*quick-quick-quick*) calls provided by Colorado Division of Wildlife (Dave Klute, personal communication). Calls were played on a FOXPRO® FX3® or

Fury digital game caller while scanning with binoculars to search for adults or young burrowing owls perched above ground near their nests. Each location was surveyed for at least 10 minutes.

RESULTS and DISCUSSION

Raptors

Within the 2012 PAPA raptor survey area and the C&PDA raptor survey area, 517 nest locations were surveyed (Maps 1 and 2). One location was confirmed to be a faulty or duplicate location and was removed from further analysis. The 516 actual nest locations included: 160 ferruginous hawk, 104 unknown raptor, 75 red-tailed hawk, 29 burrowing owl, 23 great horned owl, 23 Swainson's hawk, 21 American kestrel (*Falco sparverius*), 15 bald eagle, 10 osprey, seven golden eagle, five prairie falcon (*Falco mexicanus*), two northern harrier (*Circus cyaneus*), two short-eared owl, 32 black-billed magpie (*Pica hudsonia*), five common raven (*Corvus corax*), and three raptor nests occupied by Canada goose (*Branta Canadensis*) (Tables 1 and 2, Maps 1 and 2). Of the 516 nest locations surveyed, 198 nests were gone, two nests could not be surveyed due to ground access (private land), and 22 new nests were discovered in 2012 (Tables 1 and 2, Maps 1 and 2).

Active Nests (Tables 1 and 2)

Of the 219 viable nests (nests in excellent, good or fair condition) surveyed, 81 were active (69 raptor and 12 non-raptor) including: 29 red-tailed hawk, 11 great horned owl, seven American kestrel, eight bald eagle, three burrowing owl, three ferruginous hawk, three Swainson's hawk, two osprey, two prairie falcon nest, and one golden eagle. The 12 active non-raptor nests included seven black-billed magpie nests, two common raven nests, and three raptor nests occupied by Canada goose.

Nest Productivity (Tables 1 and 2)

Sixty-nine active raptor nests were surveyed until young fledged or the nest failed. Since nests were monitored monthly (as outlined in the WGFD Request for Proposal) and not monitored daily, the following productivity numbers are estimates only. Successful fledging was often assumed based on timing (i.e. considering the age of nestlings from the previous survey, and using the nesting chronology for each species to assume nest success or nest failure based on timing). This likely resulted in artificially inflated nest success estimates.

Of the 69 nests that were active in 2012, 62 were productive (90%) including: 24 red-tailed hawk (average 1.5 fledglings/nest), 11 great horned owl (average 1.6 fledgling/nest), eight bald eagle (average 1.3 fledglings/nest), seven American kestrel (average 1.5 fledglings/nest), three burrowing owl (average 2.0 fledglings/nest), three ferruginous hawk (average 2.0 fledgling/nest), two osprey (average 2.0 fledglings/nest), two prairie falcon (average 1.5 fledglings/nest), and two Swainson's hawk nests (average 1.0 fledglings/nest).

The seven known failed nests included: five red-tailed hawk, one Swainson's hawk, and one golden eagle.



Gone and Dilapidated Nests (Tables 1 and 2)

Of the 516 nest locations, 198 nests were gone including: 61 unknown raptor nests, 34 red-tailed hawk, 54 ferruginous hawk, 13 Swainson’s hawk, nine great horned owl, six American kestrel (tree gone), five osprey, five burrowing owl (burrows collapsed), five bald eagle, one golden eagle, one northern harrier (cattle impact at nest location or flooded field), and two short-eared owl. Non-raptor nests that were gone included two common raven nests.

Of the 516 nests, 101 were documented as inactive dilapidated including: 79 ferruginous hawk, nine unknown raptor, four burrowing owl (burrows partially collapsed), two osprey, two red-tailed hawk, one golden eagle, one prairie falcon, one common raven and two black-billed magpie nests.

New Nests (Tables 1 and 2)

Twenty-two new or previously undocumented nests were discovered by HWA biologists in 2012 and include 17 raptor and five non-raptor nests. The 17 new raptor nests included: eight unknown raptor, four burrowing owl, one ferruginous hawk, two red-tailed hawk, one osprey, and one American kestrel nests. The five new non-raptor nests were black-billed magpie nests.

OTHER WILDLIFE

During the course of surveys conducted in and within one mile of the PAPA in 2012 other wildlife species were observed and documented, including 66 bird species, 14 mammal species, and one reptile species:

Birds	
American Avocet (<i>Recurvirostra americana</i>)	Greater Sage-grouse (<i>Centrocercus urophasianus</i>)
American Coot (<i>Fulica Americana</i>)	Green-winged Teal (<i>Anas crecca</i>)
American Crow (<i>Corvus brachyrhynchos</i>)	Hairy Woodpecker (<i>Picoides villosus</i>)
American Robin (<i>Turdus migratorius</i>)	Horned Lark (<i>Eremophila alpestris</i>)
American White Pelican (<i>Pelecanus erythrorhynchos</i>)	Killdeer (<i>Charadrius vociferous</i>)
American Wigeon (<i>Anas americana</i>)	Mallard (<i>Anas platyrhynchos</i>)
Bank Swallow (<i>Riparia riparia</i>)	Marbled Godwit (<i>Limosa fedoa</i>)
Barn Swallow (<i>Hirundo rustica</i>)	Mountain Bluebird (<i>Sialia currucoides</i>)
Barrow’s Goldeneye (<i>Bucephala islandica</i>)	Mourning Dove (<i>Zenaida macroura</i>)
Belted Kingfisher (<i>Ceryle alcyon</i>)	Northern Flicker (<i>Colaptes auratus</i>)
Black-capped Chickadee (<i>Poecile atricapillus</i>)	Northern Pintail (<i>Anas acuta</i>)
Black-headed Grosbeak (<i>Pheucticus melanocephalus</i>)	Northern Shoveler (<i>Anas clypeata</i>)

Birds (Continued)	
Brewer's Blackbird (<i>Euphagus cyanocephalus</i>)	Red-shafted Flicker (<i>Colaptes auratus</i>)
Brewer's Sparrow (<i>Spizella breweri</i>)	Red-winged Blackbird (<i>Agelaius phoeniceus</i>)
Brown-headed Cowbird (<i>Molothrus ater</i>)	Rock Wren (<i>Salpinctes obsoletus</i>)
Bullock's Oriole (<i>Icterus bullockii</i>)	Sage Sparrow (<i>Amphispiza belli</i>)
Canada Goose (<i>Branta canadensis</i>)	Sage Thrasher (<i>Oreoscoptes montanus</i>)
Chipping Sparrow (<i>Spizella passerina</i>)	Sandhill Crane (<i>Grus canadensis</i>)
Cinnamon Teal (<i>Anas cyanoptera</i>)	Savannah Sparrow (<i>Passerculus sandwichensis</i>)
Clark's Nutcracker (<i>Nucifraga columbiana</i>)	Song Sparrow (<i>Melospiza melodia</i>)
Common Goldeneye (<i>Bucephala clangula</i>)	Spotted Sandpiper (<i>Actitis macularia</i>)
Common Grackle (<i>Quiscalus quiscula</i>)	Sprague's Pipit (<i>Anthus spragueii</i>)
Common Merganser (<i>Mergus merganser</i>)	Trumpeter Swan (<i>Cygnus buccinator</i>)
Common Nighthawk (<i>Chordeiles minor</i>)	Turkey Vulture (<i>Carthartes aura</i>)
Common Poorwill (<i>Phalaenoptilus nuttallii</i>)	Vesper Sparrow (<i>Pooecetes gramineus</i>)
Common Snipe (<i>Gallinago gallinago</i>)	Violet-green Swallow (<i>Tachycineta thalassina</i>)
Cooper's Hawk (<i>Accipiter Cooperii</i>)	Western Bluebird (<i>Sialia mexicana</i>)
Downy Woodpecker (<i>Picoides pubescens</i>)	Western Meadowlark (<i>Sturnella neglecta</i>)
Eared Grebe (<i>Podiceps nigricollis</i>)	White-crowned Sparrow (<i>Zonotrichia leucophrys</i>)
Eastern Kingbird (<i>Tyrannus tyrannus</i>)	Willet (<i>Catoptrophorus semipalmatus</i>)
European Starling (<i>Sturnus vulgaris</i>)	Wilson's Warbler (<i>Wilsonia pusilla</i>)
Gadwall (<i>Anas strepera</i>)	Yellow Warbler (<i>Setophaga petechia</i>)
Great-blue Heron (<i>Ardea herodias</i>)	Yellow-headed Blackbird (<i>Xanthocephalus xanthocephalus</i>)

Mammals
Badger (<i>Taxidea taxus</i>)
Coyote (<i>Canis latrans</i>)
Desert Cottontail (<i>Sylvilagus audubonii</i>)
Least Chipmunk (<i>Tamias minimus</i>)
Moose (<i>Alces alces</i>)
Mountain Cottontail (<i>Sylvilagus nuttallii</i>)
Mule Deer (<i>Odocoileus hemionus</i>)
Porcupine (<i>Erethizon dorsatum</i>)
Pronghorn (<i>Antilocapra americana</i>)
Pygmy Rabbit (<i>Brachylagus idahoensis</i>)
Red Fox (<i>Vulpes vulpes</i>)
White-tailed Jackrabbit (<i>Lepus townsendii</i>)
White-tailed Prairie Dog (<i>Cynomys leucurus</i>)
Wyoming Ground Squirrel (<i>Spermophilus elegans</i>)
Reptiles
Greater short-horned Lizard (<i>Phrynosoma hernandesi</i>)



REFERENCES CITED

United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS). 2009. State annual data summaries. Available at <http://www.wcc.nrcs.usda.gov>

United States Department of the Interior – Bureau of Land Management (USDI-BLM). 2008. Record of decision, Pinedale Anticline Project Area, supplemental environmental impact statement. http://www.blm.gov/wy/st/en/programs/Planning/rmps/pinedale/rod_armp.html

Table 1. Species summary of the 516 nest sites in and within one mile of the C&PDA and one mile of the PAPA during May-August 2012.

American Kestrel 21 nests	
(15 viable in 2012)	
New nests	1
Active nests	7
Productive	7
Failed	0
Inactive	8
Inactive Dilapidated	0
Gone	6
Unknown/unable to survey*	0

Bald Eagle 15 nests	
(10 viable in 2012)	
New nests	0
Active nests	8
Productive	8
Failed	0
Inactive	2
Inactive Dilapidated	0
Gone	5
Unknown/unable to survey*	0

Burrowing Owl 29 nests	
(20 viable in 2011)	
New nests	4
Active nests	3
Productive	3
Failed	0
Inactive	17
Inactive Dilapidated	4
Gone	5
Unknown/unable to survey*	0

Ferruginous Hawk 160 nests	
(28 viable in 2012)	
New nests	1
Active nests	3
Productive	3
Failed	0
Inactive	25
Inactive Dilapidated	78
Gone	54
Unknown/unable to survey*	0

Great Horned Owl 23 nests	
(14 viable in 2012)	
New nests	0
Active nests	11
Productive	11
Failed	0
Inactive	3
Inactive Dilapidated	0
Gone	9
Unknown/unable to survey*	0

Golden Eagle 7 nests	
(5 viable in 2012)	
New nests	0
Active nests	1
Productive	0
Failed	1
Inactive	4
Inactive Dilapidated	1
Gone	1
Unknown/unable to survey*	0

Table 1. (continued)

Northern Harrier 2 nests	
(1 viable in 2012)	
New nests	0
Active nests	0
Productive	0
Failed	0
Inactive	1
Inactive Dilapidated	0
Gone	1
Unknown/unable to survey*	0

Osprey 10 nests	
(3 viable in 2012)	
New nests	1
Active nests	2
Productive	2
Failed	0
Inactive	1
Inactive Dilapidated	2
Gone	5
Unknown/unable to survey*	0

Prairie Falcon 5 nests	
(4 viable in 2012)	
New nests	0
Active nests	2
Productive	2
Failed	0
Inactive	2
Inactive Dilapidated	1
Gone	0
Unknown/unable to survey*	0

Red-tailed Hawk 75 nests	
(38 viable in 2012)	
New nests	2
Active nests	29
Productive	24
Failed	5
Inactive	9
Inactive Dilapidated	2
Gone	34
Unknown/unable to survey*	1

Short-eared Owl 2 nests	
(0 viable in 2012)	
New nests	0
Active nests	0
Productive	0
Failed	0
Inactive	0
Inactive Dilapidated	0
Gone	2
Unknown/unable to survey*	0

Swainson's Hawk 23 nests	
(10 viable in 2012)	
New nests	0
Active nests	3
Productive	2
Failed	1
Inactive	7
Inactive Dilapidated	0
Gone	13
Unknown/unable to survey*	0

Table 1. (continued)

Unknown Raptor 104 nests	
(35 viable in 2012)	
New nests	8
Active nests	0
Productive	0
Failed	0
Inactive	35
Inactive Dilapidated	7
Gone	61
Unknown/unable to survey*	1

Black-billed Magpie 32 nests	
(30 viable in 2012)	
New nests	5
Active nests	7
Productive	--
Failed	--
Inactive	23
Inactive Dilapidated	2
Gone	0
Unknown/unable to survey*	0

Common Raven 5 nests	
(3 viable in 2012)	
New nests	0
Active nests	2
Productive	--
Failed	--
Inactive	0
Inactive Dilapidated	1
Gone	2
Unknown/unable to survey*	0

Canada Goose 3 nests	
(3 viable in 2012)	
New nests	0
Active nests	3
Productive	--
Failed	--
Inactive	0
Inactive Dilapidated	0
Gone	0
Unknown/unable to survey*	0

*Unknown/unable to survey: nests located on private land with no ground access at any point in season.

Table 2. Results of raptor surveys conducted in and within one mile of the C&PDA and the PAPA during 2012.

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
291060501	FEHA	Unoccupied	INDI	Remnants	0 / 0
291060601	BUOW	Unoccupied	Historical	Gone	--
291060701	FEHA	Unoccupied	INDI	Remnants	0 / 0
291060702	FEHA	Unoccupied	Historical	Gone	--
291060703	FEHA	Unoccupied	Historical	Gone	--
291063001	FEHA	Unoccupied	INDI	Poor	0 / 0
291070101	BUOW	Unoccupied	Inactive	Good	0 / 0
291070301	BUOW	Unoccupied	Inactive	Fair	0 / 0
291070302	BUOW	Unoccupied	Inactive	Fair	0 / 0
291070303	BUOW	Unoccupied	Inactive	Fair	0 / 0
291070801	FEHA	Unoccupied	Historical	Gone	--
291070802	FEHA	Unoccupied	Historical	Gone	--
291070803	FEHA	Unoccupied	Historical	Gone	--
291070804	FEHA	Unoccupied	INDI	Remnants	0 / 0
291070805	FEHA	Unoccupied	INDI	Remnants	0 / 0
291070806	UNKN	Unoccupied	Historical	Gone	--
291070807	UNKN	Unoccupied	Historical	Gone	--
291071201	BUOW	Unoccupied	Inactive	Good	0 / 0
291071401	BUOW	Unoccupied	Inactive	Good	0 / 0
291071402	BUOW	Unoccupied	INDI	Remnants	0 / 0
291071403	BUOW	Unoccupied	INDI	Remnants	0 / 0
291071404	BUOW	Unoccupied	Inactive	Good	0 / 0
291072301	FEHA	Unoccupied	Inactive	Fair	0 / 0
291072302	FEHA	Unoccupied	Inactive	Fair	0 / 0
291072601	FEHA	Unoccupied	Historical	Gone	--
291072602	FEHA	Unoccupied	Inactive	Good	0 / 0
291073401	FEHA	Unoccupied	INDI	Remnants	0 / 0
291073402	BUOW	Unoccupied	Inactive	Good	0 / 0
291073501	FEHA	Unoccupied	Inactive	Fair	0 / 0
291073502	FEHA	Unoccupied	INDI	Poor	0 / 0
291073503	FEHA	Unoccupied	Inactive	Fair	0 / 0
291073504	FEHA	Unoccupied	INDI	Remnants	0 / 0
291073505	FEHA	Unoccupied	INDI	Remnants	0 / 0
291073506	FEHA	Unoccupied	INDI	Remnants	0 / 0
291073507	FEHA	Unoccupied	INDI	Poor	0 / 0
291073508	FEHA	Unoccupied	INDI	Remnants	0 / 0
291073509	FEHA	Unoccupied	INDI	Remnants	0 / 0
291073510	FEHA	Unoccupied	INDI	Poor	0 / 0
291073511	FEHA	Unoccupied	INDI	Poor	0 / 0
291073512	FEHA	Unoccupied	Inactive	Fair	0 / 0
291073601	FEHA	Unoccupied	INDI	Poor	0 / 0
291081210	FEHA	Unoccupied	Historical	Gone	--

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
301061801	BUOW	Unoccupied	Inactive	Good	0 / 0
301071401	FEHA	Unoccupied	Historical	Gone	--
301072601	FEHA	Unoccupied	Historical	Gone	--
301073101	BUOW	Unoccupied	Historical	Gone	--
301073102	BUOW	Unoccupied	Inactive	Good	0 / 0
301073301	FEHA	Unoccupied	INDI	Remnants	0 / 0
301073302	FEHA	Unoccupied	INDI	Poor	0 / 0
301073401	FEHA	Unoccupied	INDI	Remnants	0 / 0
301080301	FEHA	Unoccupied	INDI	Remnants	0 / 0
301080302	FEHA	Unoccupied	INDI	Poor	0 / 0
301080303	FEHA	Unoccupied	INDI	Poor	0 / 0
301080304	FEHA	Unoccupied	INDI	Poor	0 / 0
301080305	FEHA	Unoccupied	INDI	Remnants	0 / 0
301080306	GHOW	Unoccupied	Historical	Gone	--
301080307	FEHA	Unoccupied	Historical	Gone	--
301080308	FEHA	Unoccupied	INDI	Remnants	0 / 0
301080309	FEHA	Unoccupied	Inactive	Good	0 / 0
301080310	FEHA	Unoccupied	Historical	Gone	--
301080311	FEHA	Unoccupied	INDI	Remnants	0 / 0
301080901	FEHA	Unoccupied	Historical	Gone	--
301080902	FEHA	Unoccupied	INDI	Remnants	0 / 0
301080903	FEHA	Unoccupied	INDI	Remnants	0 / 0
301080904	FEHA	Unoccupied	Historical	Gone	--
301080905	CORA	Occupied	INDI	Gone	--
301081001	FEHA	Unoccupied	INDI	Poor	0 / 0
301081601	FEHA	Unoccupied	INDI	Poor	0 / 0
301081602	FEHA	Unoccupied	Historical	Gone	--
301081603	FEHA	Unoccupied	Historical	Gone	--
301081604	FEHA	Unoccupied	Historical	Gone	--
301081605	PRFA	Unoccupied	Inactive	Fair	0 / 0
301081606	FEHA	Unoccupied	Historical	Gone	--
301081607	FEHA	Unoccupied	Historical	Gone	--
301081608	UNKN	Unoccupied	Historical	Gone	--
301081609	FEHA	Unoccupied	Historical	Gone	--
301081701	FEHA	Unoccupied	INDI	Remnants	0 / 0
301081702	FEHA	Unoccupied	Historical	Gone	--
301081704	FEHA	Unoccupied	Historical	Gone	--
301081705	FEHA	Occupied	Inactive	Excellent	0 / 0
301081801	PRFA	Occupied	INDI	Poor	0 / 0
301081802	FEHA	Occupied	Inactive	Excellent	0 / 0
301081803	FEHA	Occupied	INDI	Remnants	0 / 0
301081806	UNKN	Unoccupied	Historical	Gone	--
301081901	FEHA	Unoccupied	Historical	Gone	--

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
301081902	PRFA	Occupied	Inactive	Good	0 / 0
301081904	PRFA	Occupied	Productive	Good	2 / 2
301081905	FEHA	Unoccupied	INDI	Poor	0 / 0
301082001	UNKN	Unoccupied	Historical	Gone	--
301082201	FEHA	Unoccupied	Historical	Gone	--
301082301	FEHA	Unoccupied	Historical	Gone	--
301082302	UNKN	Unoccupied	Historical	Gone	--
301082501	BUOW	Unoccupied	Inactive	Good	0 / 0
301082701	UNKN	Unoccupied	Historical	Gone	--
301083501	BUOW	Unoccupied	Inactive	Excellent	0 / 0
301083601	FEHA	Unoccupied	Historical	Gone	--
301083602	UNKN	Unoccupied	Historical	Gone	--
301090605	RTHA	Occupied	Productive	Good	2 / 2
301091001	BUOW	Unoccupied	Inactive	Good	0 / 0
301091301	FEHA	Occupied	Inactive	Fair	0 / 0
301091302	FEHA	Occupied	INDI	Poor	0 / 0
301092301	FEHA	Unoccupied	INDI	Remnants	0 / 0
301092302	UNKN	Unoccupied	INDI	Poor	0 / 0
301092303	FEHA	Unoccupied	Historical	Gone	--
301092401	FEHA	Unoccupied	INDI	Poor	0 / 0
301092402	FEHA	Unoccupied	Historical	Gone	--
301092801	FEHA	Unoccupied	Historical	Gone	--
301092802	FEHA	Unoccupied	Historical	Gone	--
301093401	FEHA	Unoccupied	Historical	Gone	--
301093402	FEHA	Unoccupied	Historical	Gone	--
301093403	FEHA	Unoccupied	INDI	Remnants	0 / 0
301093503	FEHA	Occupied	Inactive	Good	0 / 0
301093504	FEHA	Unoccupied	INDI	Poor	0 / 0
301093505	FEHA	Unoccupied	Historical	Gone	--
301093506	FEHA	Unoccupied	Inactive	Fair	0 / 0
301093609	FEHA	Unoccupied	Historical	Gone	--
301093610	FEHA	Unoccupied	INDI	Poor	0 / 0
301093611	FEHA	Unoccupied	INDI	Remnants	0 / 0
301100101	FEHA	Unoccupied	INDI	Poor	0 / 0
301101102	BAEA	Occupied	Productive	Good	1 / 1
311080403	BAEA	Occupied	Inactive	Good	0 / 0
311080501	RTHA	Unoccupied	Historical	Gone	--
311080502	BAEA	Unoccupied	Historical	Gone	--
311080503	AMKE	Occupied	Productive	Unknown	2 / 2
311080504	RTHA	Unoccupied	Historical	Gone	--
311080505	RTHA	Unoccupied	Historical	Gone	--
311080506	RTHA	Unoccupied	Historical	Gone	--
311080508	BBMA	Unoccupied	Inactive	Fair	0 / 0

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
311080509	UNKN	Did Not Locate	Unknown	Unknown	--
311080510	RTHA	Unoccupied	Inactive	Good	0 / 0
311080512	UNKN	Unoccupied	Inactive	Good	0 / 0
311080513	RTHA	Occupied	Inactive	Good	0 / 0
311080514	RTHA	Did Not Locate	Unknown	Unknown	--
311080601	RTHA	Occupied	Productive	Good	1 / 1
311080602	GHOW	Unoccupied	Historical	Gone	--
311080604	AMKE	Unoccupied	Historical	Gone	--
311080605	GHOW	Unoccupied	Historical	Gone	--
311080606	SWHA	Unoccupied	Historical	Gone	--
311080607	RTHA	Unoccupied	Historical	Gone	--
311080608	RTHA	Occupied	Failed	Good	Unk / 0
311080609	UNKN	Unoccupied	Historical	Gone	--
311080610	UNKN	Unoccupied	Historical	Gone	--
311080611	GHOW	Occupied	Productive	Good	Unk / Unk
311080612	BAEA	Occupied	Productive	Excellent	2 / 1
311080613	RTHA	Unoccupied	Inactive	Excellent	0 / 0
311080701	UNKN	Unoccupied	Historical	Gone	--
311080702	CAGO	Occupied	Active	Good	--
311080703	UNKN	Unoccupied	Historical	Gone	--
311080704	AMKE	Unoccupied	Inactive	Unknown	0 / 0
311080705	UNKN	Unoccupied	Historical	Gone	--
311080801	RTHA	Unoccupied	Inactive	Fair	0 / 0
311081401	FEHA	Unoccupied	INDI	Poor	0 / 0
311081402	FEHA	Unoccupied	INDI	Remnants	0 / 0
311081403	FEHA	Unoccupied	INDI	Poor	0 / 0
311081404	FEHA	Unoccupied	INDI	Remnants	0 / 0
311081405	FEHA	Unoccupied	INDI	Poor	0 / 0
311081406	FEHA	Unoccupied	INDI	Poor	0 / 0
311081407	FEHA	Unoccupied	INDI	Poor	0 / 0
311081501	FEHA	Unoccupied	Historical	Gone	--
311081502	FEHA	Unoccupied	Historical	Gone	--
311081503	BUOW	Unoccupied	Historical	Gone	--
311081504	FEHA	Unoccupied	Inactive	Good	0 / 0
311081901	BUOW	Unoccupied	Inactive	Unknown	0 / 0
311082001	FEHA	Unoccupied	INDI	Poor	0 / 0
311083301	BUOW	Unoccupied	Historical	Gone	--
311083302	FEHA	Unoccupied	INDI	Gone	--
311083303	FEHA	Unoccupied	INDI	Poor	0 / 0
311083304	FEHA	Unoccupied	Historical	Gone	--
311083401	FEHA	Unoccupied	Historical	Gone	--
311090101	SWHA	Unoccupied	Historical	Gone	--
311090102	UNKN	Unoccupied	Historical	Gone	--

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
311090103	UNKN	Unoccupied	Historical	Gone	--
311090104	SWHA	Occupied	Inactive	Good	0 / 0
311090105	BBMA	Occupied	Inactive	Good	0 / 0
311090106	UNKN	NA	NA	NA	--
311090107	GHOW	Unoccupied	Inactive	Fair	0 / 0
311090201	NOHA	Occupied	Inactive	Unknown	0 / 0
311090202	OSPR	Unoccupied	Historical	Gone	--
311090203	UNKN	Unoccupied	Historical	Gone	--
311090204	SWHA	Occupied	Inactive	Good	0 / 0
311090401	BUOW	Unoccupied	Historical	Gone	--
311090501	FEHA	Unoccupied	INDI	Poor	0 / 0
311090502	FEHA	Unoccupied	Inactive	Fair	0 / 0
311090503	FEHA	Unoccupied	INDI	Remnants	0 / 0
311090504	FEHA	Unoccupied	Inactive	Fair	0 / 0
311090505	FEHA	Unoccupied	INDI	Remnants	0 / 0
311090506	FEHA	Unoccupied	INDI	Remnants	0 / 0
311090507	FEHA	Unoccupied	INDI	Remnants	0 / 0
311090508	FEHA	Unoccupied	Historical	Gone	--
311090509	FEHA	Unoccupied	Historical	Gone	--
311090510	FEHA	Unoccupied	Historical	Gone	--
311090701	FEHA	Unoccupied	INDI	Remnants	0 / 0
311090901	FEHA	Occupied	Productive	Excellent	3 / 3
311091001	GHOW	Occupied	Productive	Good	Unk / Unk
311091002	GHOW	Unoccupied	Historical	Gone	--
311091003	RTHA	Unoccupied	Historical	Gone	--
311091004	UNKN	Unoccupied	Historical	Gone	--
311091013	UNKN	Unoccupied	Historical	Gone	--
311091101	RTHA	Unoccupied	Historical	Gone	--
311091102	SWHA	Occupied	Failed	Good	Unk / 0
311091103	RTHA	Unoccupied	Historical	Gone	--
311091104	RTHA	Unoccupied	Historical	Gone	--
311091105	RTHA	Unoccupied	Historical	Gone	--
311091106	RTHA	Unoccupied	Historical	Gone	--
311091107	RTHA	Occupied	Failed	Good	Unk / 0
311091108	RTHA	Unoccupied	Historical	Gone	--
311091109	UNKN	Unoccupied	Historical	Gone	--
311091110	UNKN	Unoccupied	Historical	Gone	--
311091111	UNKN	Unoccupied	Historical	Gone	--
311091112	GHOW	Occupied	Productive	Good	1 / 1
311091201	UNKN	Unoccupied	Historical	Gone	--
311091202	NOHA	Unoccupied	Historical	Gone	--
311091203	UNKN	Unoccupied	Historical	Gone	--
311091204	UNKN	Unoccupied	Historical	Gone	--

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
311091205	UNKN	Unoccupied	Historical	Gone	--
311091206	UNKN	Unoccupied	Historical	Gone	--
311091207	UNKN	Unoccupied	Historical	Gone	--
311091208	GOEA	Occupied	Inactive	Good	0 / 0
311091209	RTHA	Unoccupied	Historical	Gone	--
311091210	UNKN	Unoccupied	Historical	Gone	--
311091211	RTHA	Unoccupied	Historical	Gone	--
311091212	OSPR	Unoccupied	Historical	Gone	--
311091213	OSPR	Unoccupied	Historical	Gone	--
311091214	RTHA	Occupied	Failed	Good	Unk / 0
311091215	UNKN	Unoccupied	Historical	Gone	--
311091216	RTHA	Occupied	Productive	Excellent	1 / 1
311091217	RTHA	Occupied	Productive	Good	1 / 1
311091218	UNKN	Unoccupied	INDI	Gone	--
311091219	UNKN	Unoccupied	Inactive	Fair	0 / 0
311091220	UNKN	Unoccupied	Historical	Gone	--
311091222	RTHA	Occupied	Productive	Good	1 / 1
311091223	RTHA	Occupied	Productive	Good	1 / 1
311091224	RTHA	Unoccupied	Historical	Gone	--
311091226	RTHA	Unoccupied	Historical	Gone	--
311091227	GHOW	Unoccupied	Historical	Gone	--
311091228	UNKN	Unoccupied	Inactive	Fair	0 / 0
311091401	UNKN	Unoccupied	Historical	Gone	--
311091402	UNKN	Unoccupied	Inactive	Good	0 / 0
311091403	RTHA	Unoccupied	Historical	Gone	--
311091404	UNKN	Unoccupied	Historical	Gone	--
311091405	BBMA	Unoccupied	Inactive	Fair	0 / 0
311091406	AMKE	Unoccupied	Inactive	Unknown	0 / 0
311091501	UNKN	Unoccupied	Historical	Gone	--
311091502	RTHA	Occupied	Productive	Good	1 / 1
311091503	GOEA	Occupied	Failed	Excellent	Unk / 0
311091504	UNKN	Unoccupied	Historical	Gone	--
311091505	AMKE	Unoccupied	Historical	Gone	--
311091506	GHOW	Unoccupied	Inactive	Good	0 / 0
311091507	BAEA	Occupied	Productive	Good	1 / Unk
311091508	UNKN	Unoccupied	Historical	Gone	--
311091509	RTHA	Unoccupied	Historical	Gone	--
311091510	UNKN	Unoccupied	INDI	Poor	0 / 0
311091511	CAGO	Occupied	Active	Good	--
311091512	BBMA	Unoccupied	Inactive	Fair	0 / 0
311091513	SWHA	Unoccupied	Historical	Gone	--
311091514	RTHA	Occupied	Failed	Fair	Unk / 0
311091515	BAEA	Occupied	Productive	Good	2 / 2

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
311091517	UNKN	Unoccupied	INDI	Gone	--
311091518	RTHA	Occupied	Productive	Good	1 / 1
311091519	UNKN	Unoccupied	Inactive	Fair	0 / 0
311091520	GHOW	Occupied	Productive	Good	2 / 2
311091601	RTHA	Unoccupied	Historical	Gone	--
311091602	RTHA	Unoccupied	Historical	Gone	--
311091603	UNKN	Unoccupied	Historical	Gone	--
311091604	UNKN	Unoccupied	Historical	Gone	--
311091605	RTHA	Unoccupied	Historical	Gone	--
311091606	UNKN	Unoccupied	Historical	Gone	--
311091607	SWHA	Unoccupied	Historical	Gone	--
311091608	AMKE	Unoccupied	Historical	Gone	--
311091610	RTHA	Unoccupied	INDI	Remnants	0 / 0
311091611	RTHA	Unoccupied	Historical	Gone	--
311091612	GHOW	Unoccupied	Historical	Gone	--
311091701	FEHA	Unoccupied	Inactive	Good	0 / 0
311091901	FEHA	Unoccupied	Historical	Gone	--
311091902	FEHA	Unoccupied	INDI	Remnants	0 / 0
311091903	FEHA	Unoccupied	Historical	Gone	--
311091904	FEHA	Unoccupied	Historical	Gone	--
311091905	FEHA	Unoccupied	Inactive	Good	0 / 0
311092001	FEHA	Unoccupied	Inactive	Good	0 / 0
311092101	UNKN	Unoccupied	Inactive	Good	0 / 0
311092102	AMKE	Unoccupied	Inactive	Unknown	0 / 0
311092103	RTHA	Unoccupied	Historical	Gone	--
311092104	UNKN	Unoccupied	Historical	Gone	--
311092105	RTHA	Unoccupied	Historical	Gone	--
311092106	RTHA	Unoccupied	Historical	Gone	--
311092108	GHOW	Occupied	Productive	Good	1 / 1
311092109	RTHA	Occupied	Productive	Good	1 / 1
311092501	BUOW	Unoccupied	Inactive	Unknown	0 / 0
311092802	RTHA	Occupied	Productive	Excellent	3 / 3
311093101	FEHA	Unoccupied	Inactive	Fair	0 / 0
311093211	FEHA	Unoccupied	INDI	Remnants	0 / 0
311093212	FEHA	Occupied	Productive	Good	Unk / Unk
311093215	FEHA	Unoccupied	INDI	Remnants	0 / 0
311101301	FEHA	Unoccupied	INDI	Remnants	0 / 0
311101401	FEHA	Unoccupied	Historical	Gone	--
311103602	FEHA	Unoccupied	INDI	Poor	0 / 0
311103603	FEHA	Unoccupied	INDI	Remnants	0 / 0
311103604	FEHA	Unoccupied	INDI	Poor	0 / 0
311103605	FEHA	Unoccupied	INDI	Poor	0 / 0
311103606	FEHA	Unoccupied	INDI	Poor	0 / 0

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
311103607	FEHA	Unoccupied	INDI	Poor	0 / 0
311103608	FEHA	Unoccupied	INDI	Remnants	0 / 0
311103609	FEHA	Unoccupied	INDI	Poor	0 / 0
321080606	RTHA	Occupied	Productive	Good	1 / 1
321080609	BAEA	Occupied	Productive	Excellent	2 / 2
321080802	FEHA	Unoccupied	Historical	Gone	--
321081709	SWHA	Occupied	Inactive	Good	0 / 0
321081901	FEHA	Occupied	INDI	Remnants	0 / 0
321081902	FEHA	Unoccupied	Historical	Gone	--
321081903	FEHA	Unoccupied	INDI	Remnants	0 / 0
321081905	FEHA	Unoccupied	Inactive	Fair	0 / 0
321081906	FEHA	Unoccupied	Historical	Gone	--
321081907	FEHA	Unoccupied	Historical	Gone	--
321081908	FEHA	Unoccupied	Historical	Gone	--
321081909	FEHA	Occupied	INDI	Remnants	0 / 0
321081910	FEHA	Occupied	Inactive	Good	0 / 0
321082506	BAEA	Unoccupied	Historical	Gone	--
321082601	AMKE	Unoccupied	Inactive	Unknown	--
321082602	UNKN	Unoccupied	Historical	Gone	--
321082603	GHOW	Occupied	Productive	Good	2 / 2
321082615	UNKN	Unoccupied	Historical	Gone	--
321082616	RTHA	Unoccupied	Inactive	Fair	0 / 0
321082701	RTHA	Occupied	Productive	Excellent	2 / 2
321082702	SWHA	Occupied	Inactive	Fair	0 / 0
321082703	SWHA	Unoccupied	Inactive	Good	0 / 0
321082705	RTHA	Occupied	Productive	Good	3 / 3
321082901	FEHA	Unoccupied	Historical	Gone	--
321082911	FEHA	Occupied	Productive	Excellent	1 / 1
321083001	FEHA	Occupied	INDI	Poor	0 / 0
321083101	BUOW	Unoccupied	INDI	Poor	0 / 0
321083102	GHOW	Unoccupied	Historical	Gone	--
321083201	SWHA	Unoccupied	Historical	Gone	--
321083315	BAEA	Occupied	Productive	Good	Unk / Unk
321083316	BBMA	Occupied	Active	Excellent	--
321083403	UNKN	Unoccupied	Historical	Gone	--
321083404	UNKN	Unoccupied	Historical	Gone	--
321083405	UNKN	Unoccupied	Inactive	Fair	0 / 0
321083406	UNKN	Unoccupied	Inactive	Fair	0 / 0
321083407	UNKN	Unoccupied	Historical	Gone	--
321083408	RTHA	Occupied	Productive	Good	2 / 2
321083410	RTHA	Unoccupied	Inactive	Fair	0 / 0
321083413	BAEA	Occupied	Productive	Good	1 / 1
321090301	UNKN	Unoccupied	Inactive	Good	0 / 0

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
321091001	FEHA	Unoccupied	INDI	Poor	0 / 0
321091002	AMKE	Unoccupied	Inactive	Good	0 / 0
321091003	AMKE	Unoccupied	Inactive	Unknown	0 / 0
321091004	UNKN	Unoccupied	Historical	Gone	--
321091301	FEHA	Unoccupied	Historical	Gone	--
321091401	PRFA	Occupied	Productive	Good	1 / 1
321091402	GOEA	Unoccupied	Inactive	Fair	0 / 0
321091403	CORA	Unoccupied	Inactive	Fair	0 / 0
321091404	FEHA	Unoccupied	Historical	Gone	--
321091405	UNKN	Unoccupied	Historical	Gone	--
321091901	SEOW	Unoccupied	Historical	Gone	--
321092201	FEHA	Unoccupied	Inactive	Fair	0 / 0
321093401	FEHA	Unoccupied	Inactive	Fair	0 / 0
321093501	FEHA	Unoccupied	INDI	Remnants	0 / 0
321093502	FEHA	Unoccupied	INDI	Poor	0 / 0
321093503	FEHA	Unoccupied	INDI	Poor	0 / 0
321093504	BUOW	Unoccupied	Inactive	Good	0 / 0
321093601	RTHA	Occupied	Productive	Excellent	2 / 2
321093602	SWHA	Unoccupied	Historical	Gone	--
321093603	BBMA	Unoccupied	Inactive	Fair	0 / 0
321093606	SWHA	Occupied	Productive	Good	1 / 1
321093607	UNKN	Unoccupied	Inactive	Good	0 / 0
321093608	SWHA	Unoccupied	Inactive	Fair	0 / 0
321093609	BBMA	Unoccupied	Inactive	Good	0 / 0
321093610	UNKN	Unoccupied	Inactive	Good	0 / 0
321093611	BBMA	Unoccupied	Inactive	Fair	0 / 0
321093612	BBMA	Occupied	Inactive	Fair	0 / 0
321100905	BAEA	Unoccupied	Inactive	Good	0 / 0
321100912	BAEA	Unoccupied	Historical	Gone	--
321101401	FEHA	Unoccupied	INDI	Remnants	0 / 0
321091501	AMKE	Occupied	Productive	Good	2 / 2
321101402	BUOW	Unoccupied	INDI	Poor	0 / 0
321101604	BAEA	Unoccupied	Historical	Gone	--
321102401	SEOW	Unoccupied	Historical	Gone	--
331090301	UNKN	Unoccupied	Inactive	Good	0 / 0
331090401	OSPR	Unoccupied	INDI	Remnants	--
331090601	SWHA	Unoccupied	Historical	Gone	--
331090602	UNKN	Unoccupied	Historical	Gone	--
331090603	UNKN	Unoccupied	Historical	Gone	--
331090901	RTHA	Unoccupied	Historical	Gone	--
331090902	RTHA	Unoccupied	Historical	Gone	--
331090903	RTHA	Occupied	Productive	Good	2 / 1
331090904	SWHA	Unoccupied	Historical	Gone	--

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
331090905	OSPR	Occupied	Inactive	Fair	0 / 0
331090906	GHOW	Occupied	Productive	Good	Unk / Unk
331091001	RTHA	Unoccupied	Historical	Gone	--
331091401	OSPR	Occupied	Productive	Good	2 / 2
331091502	CAGO	Occupied	Active	Good	--
331091503	RTHA	Unoccupied	Inactive	Fair	0 / 0
331091504	AMKE	Unoccupied	Inactive	Unknown	0 / 0
331091505	OSPR	Unoccupied	Historical	Gone	--
331091506	RTHA	Occupied	Failed	Good	Unk / 0
331091507	OSPR	Occupied	Productive	Good	2 / 2
331091508	CORA	Unoccupied	Historical	Gone	--
331091601	AMKE	Occupied	Productive	Unknown	1 / 1
331091602	RTHA	Unoccupied	Historical	Gone	--
331091603	AMKE	Occupied	Productive	Unknown	Unk / Unk
331091604	AMKE	Occupied	Productive	Unknown	2 / 2
331091605	CORA	Occupied	Active	Good	--
331091606	UNKN	Unoccupied	Inactive	Fair	0 / 0
331091607	GHOW	Occupied	Productive	Good	Unk / Unk
331092101	AMKE	Occupied	Productive	Unknown	1 / 1
331092102	GHOW	Occupied	Productive	Good	Unk / Unk
331092103	RTHA	Occupied	Productive	Good	3 / 3
331092104	GHOW	Unoccupied	Historical	Gone	--
331092105	RTHA	Unoccupied	Historical	Gone	--
331092106	RTHA	Occupied	Productive	Excellent	2 / 1
331092201	SWHA	Unoccupied	Historical	Gone	--
331092202	SWHA	Unoccupied	Historical	Gone	--
331092203	RTHA	Occupied	Productive	Excellent	1 / 1
331092204	AMKE	Unoccupied	Historical	Gone	--
331092205	BAEA	Occupied	Productive	Excellent	1 / 1
331092206	UNKN	Unoccupied	Historical	Gone	--
331092207	UNKN	Unoccupied	Historical	Gone	--
331092208	RTHA	Unoccupied	Historical	Gone	--
331092209	UNKN	Unoccupied	Historical	Gone	--
331092210	CORA	Occupied	Productive	Good	4 / 4
331092211	SWHA	Occupied	Productive	Good	1 / 1
331092212	UNKN	Unoccupied	INDI	Poor	0 / 0
331092213	UNKN	Unoccupied	Historical	Gone	--
331092301	OSPR	Unoccupied	Historical	Gone	--
331092306	RTHA	Occupied	Productive	Good	1 / 1
331092307	UNKN	Unoccupied	Historical	Gone	--
331092308	GHOW	Occupied	Productive	Good	2 / 2
331092309	RTHA	Occupied	Historical	Gone	--
331092310	RTHA	Occupied	Inactive	Good	0 / 0

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
331092311	GHOW	Unoccupied	Historical	Gone	--
331092312	UNKN	Unoccupied	Historical	Gone	--
331092313	UNKN	Unoccupied	Inactive	Fair	0 / 0
331092602	RTHA	Occupied	Productive	Good	2 / 2
331092603	SWHA	Unoccupied	Historical	Gone	--
331092604	BBMA	Unoccupied	Inactive	Fair	0 / 0
331092605	RTHA	Unoccupied	Historical	Gone	--
331092606	GHOW	Unoccupied	Inactive	Good	0 / 0
331092607	UNKN	Unoccupied	INDI	Poor	0 / 0
331092608	RTHA	Occupied	Productive	Excellent	3 / 1
331092610	AMKE	Unoccupied	Historical	Gone	--
331092624	RTHA	Occupied	Inactive	Fair	0 / 0
331092701	UNKN	Unoccupied	Inactive	Fair	0 / 0
331092702	BBMA	Occupied	Active	Excellent	--
331092703	SWHA	Unoccupied	Historical	Gone	--
331092705	UNKN	Unoccupied	Inactive	Good	0 / 0
331092706	BBMA	Unoccupied	Inactive	Fair	0 / 0
331092708	UNKN	Unoccupied	Historical	Gone	--
331092709	SWHA	Unoccupied	Inactive	Good	0 / 0
331092710	BBMA	Occupied	Active	Good	--
331092711	SWHA	Unoccupied	Historical	Gone	--
331092712	BBMA	Unoccupied	Inactive	Fair	0 / 0
331092713	BBMA	Unoccupied	INDI	Remnants	0 / 0
331092714	BBMA	Unoccupied	Inactive	Fair	0 / 0
331092715	UNKN	Unoccupied	INDI	Poor	0 / 0
331092716	BBMA	Unoccupied	Inactive	Good	0 / 0
331092901	FEHA	Unoccupied	Historical	Gone	--
331093401	UNKN	Unoccupied	Historical	Gone	--
331093501	AMKE	Unoccupied	Historical	Gone	--
331093502	UNKN	Unoccupied	Inactive	Fair	0 / 0
331093503	UNKN	Unoccupied	INDI	Remnants	0 / 0
331093504	AMKE	Unoccupied	Inactive	Unknown	0 / 0
331093505	UNKN	Unoccupied	Inactive	Fair	0 / 0
331093506	UNKN	Unoccupied	INDI	Remnants	0 / 0
331093507	RTHA	Unoccupied	Historical	Gone	--
331093508	UNKN	Unoccupied	Inactive	Fair	0 / 0
331093509	UNKN	Unoccupied	Historical	Gone	--
331093510	UNKN	Unoccupied	Inactive	Fair	0 / 0
331093511	RTHA	Unoccupied	INDI	Poor	0 / 0
331093513	GOEA	Unoccupied	Inactive	Good	0 / 0
331093514	UNKN	Unoccupied	Historical	Gone	--
331093515	BBMA	Unoccupied	Inactive	Good	0 / 0
331093516	GOEA	Unoccupied	Historical	Gone	--

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
331093517	UNKN	Unoccupied	Inactive	Fair	0 / 0
331093522	UNKN	Unoccupied	Inactive	Good	0 / 0
331093523	UNKN	Unoccupied	Inactive	Fair	0 / 0
331093524	BBMA	Unoccupied	Inactive	Good	0 / 0
331093525	UNKN	Unoccupied	Inactive	Good	0 / 0
331093526	BBMA	Unoccupied	Inactive	Good	0 / 0
331093527	UNKN	Unoccupied	Inactive	Good	0 / 0
331093529	BBMA	Unoccupied	Inactive	Fair	0 / 0
331093530	UNKN	Unoccupied	Inactive	Good	0 / 0
331093531	BBMA	Unoccupied	Inactive	Good	0 / 0
331093532	UNKN	Unoccupied	Inactive	Good	0 / 0
331093533	GHOW	Occupied	Productive	Good	Unk / Unk
331100101	BBMA	Unoccupied	Inactive	Fair	0 / 0
331100102	BBMA	Occupied	Active	Good	2 / 2
331100103	BBMA	Occupied	Inactive	Good	0 / 0
331101201	GOEA	Occupied	Inactive	Excellent	0 / 0
331101202	FEHA	Unoccupied	INDI	Poor	0 / 0
331101203	GOEA	Occupied	INDI	Poor	0 / 0
331101204	BBMA	Occupied	INDI	Poor	0 / 0
331101205	BBMA	Occupied	Active	Good	6 / Unk
331102704	BAEA	Unoccupied	Historical	Gone	--
341093301	UNKN	Unoccupied	Historical	Gone	--
301061802*	BUOW	Unoccupied	Inactive	Good	0 / 0
301092803	FEHA	Unoccupied	Inactive	Fair	0 / 0
311080614*	UNKN	Unoccupied	Inactive	Good	0 / 0
311080706*	UNKN	Unoccupied	Inactive	Good	0 / 0
311081408*	FEHA	Unoccupied	Inactive	Good	0 / 0
311081505*	BUOW	Occupied	Productive	Good	1 / 1
311083305*	BUOW	Occupied	Productive	Good	1 / 1
311091229*	UNKN	Unoccupied	Inactive	Fair	0 / 0
311091407*	RTHA	Occupied	Productive	Good	Unk / Unk
311091613*	UNKN	Unoccupied	Inactive	Fair	0 / 0
321080813*	RTHA	Occupied	Productive	Good	2 / 2
321083206*	OSPR	Occupied	INDI	Poor	0 / 0
321083418*	AMKE	Occupied	Productive	Good	1 / 1
321093613*	BBMA	Occupied	Inactive	Good	0 / 0
321093614*	BBMA	Occupied	Active	Good	3 / Unk
321093615*	BUOW	Occupied	Productive	Good	4 / 4
331083103*	UNKN	Unoccupied	Inactive	Good	0 / 0
331090907*	UNKN	Unoccupied	Inactive	Good	0 / 0
331092214*	UNKN	Unoccupied	Inactive	Fair	0 / 0
331092717*	BBMA	Occupied	Inactive	Good	0 / 0
331093534*	UNKN	Unoccupied	Inactive	Fair	0 / 0

Table 2. (continued)

BLM ID	Species ¹	Occupancy ²	Activity ³	Condition	#Nestlings / #Fledglings
331093535*	BBMA	Occupied	Inactive	Good	0 / 0
331101206*	BBMA	Occupied	Active	Excellent	2 / 2

¹Species

AMKE = American Kestrel; BAEA = Bald Eagle; BUOW = Burrowing Owl;
 FEHA = Ferruginous Hawk; GHOW = Great Horned Owl; GOEA = Golden Eagle;
 NOHA = Northern Harrier; OSPR = Osprey; PRFA = Prairie Falcon; RTHA = Red-tailed Hawk;
 SEOW = Short-eared Owl; SWHA = Swainson's Hawk; UNKN = Unknown Raptor;
 BBMA = Black-billed Magpie; CORA = Common Raven; CAGO = Canada Goose

²Occupancy

Occupied (at least one of the following applies):

- a pair of adult birds present in a breeding territory;
- adult presence at or near the nest;
- recent and well used perch site near the nest;
- fresh mute or whitewash at or near the nest.

Unoccupied: a habitat that exhibits no evidence of the presence of a breeding pair of birds.

Did Not Locate: Surveyor searched but was unable to locate the nest. This does not necessarily mean the nest is gone. For this project, a nest was assigned as "did not locate" if the nest was on private property and could not be seen from public lands.

NA (Not applicable): Faulty data point or inaccurate nest location (e. g. in middle of river)

³Activity

Active: defined by the presence of an incubating adult, eggs, young, or courting adults being observed at least twice near the nest throughout the breeding season.

Inactive: Courting or incubating adults, eggs, or young were not observed.

INDI (Inactive Dilapidated): An inactive nest in state of ruin due to weather, natural aging, and/or neglect.

Unknown: Unknown whether there were nesting or incubating adults.

Historical: A nest historically existed but is now gone.

Productive: Produced at least one young to fledgling age.

Failed: Active nest failed to produce young to fledgling age.

* Nest discovered in 2012 by HWA

-- Not surveyed for productivity