

WIND CAVE NATIONAL PARK
BREEDING BIRD INVENTORY AND SURVEYS
1999 PROGRESS REPORT
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*Entered under
the final report.*

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SUMMARY OF WORK COMPLETED

Breeding Bird Inventory

1999 was the second year of a 3 year project to inventory the breeding birds and establish a system of surveys for long-term monitoring of these birds at Wind Cave National Park (WCNP). This effort will provide documentation of at least 90 percent of the bird species that breed in the Park and their distribution within it.

During the 1998 field season a total of 863 bird observation records were submitted for the 46 "atlas block" subdivisions of the park. There were records of 88 species or subspecies and 1 hybrid (Lazuli X Indigo Bunting). Forty-four of these species were confirmed as breeding species based on behavior observed.

In the just completed 1999 field season a total of 655 records of 100 species or subspecies were added to the database. There were more than 655 observations submitted but only those that documented new species in a block or breeding behavior upgrades were counted. There are now records of 105 species or subspecies and 1 hybrid in the project database. Seventeen of these 105 species have either a possible or probable breeding behavior record, and are considered to be of uncertain breeding status for several reasons: 1. They are not known to occur regularly; 2. The habitats of WCNP are marginal quality; 3. There are no known previous confirmations of breeding. These 17 species are currently considered to be migrants or summer visitors in WCNP. Of the remaining 88 species and subspecies; 68 have been confirmed breeding, 15 are represented with probable records, and 5 have been reported as possible in 1998 or 1999. Descriptions of possible, probable and confirmed breeding behavior are given in Attachment A: Breeding Behavior Criteria and Codes.

Table 1. Most Frequently Reported Species

<u>Species</u>	<u>No. of Blocks</u>
Vesper Sparrow	40
Black-capped Chickadee	39
Chipping Sparrow	38
Western Meadowlark	38
Northern Flicker	37
American Robin	37
Spotted Towhee	37
American Crow	34
Audubon's Warbler	32
Mourning Dove	30
Grasshopper Sparrow	30
Brown-headed Cowbird	28
Common Nighthawk	28
Western Tanager	27
Upland Sandpiper	26
Red Crossbill	26

Table 2. Lists all species (ACU checklist order) the status and highest behavior reported, and the number of atlas blocks where reported. See Attachment A for explanation of Behavior Codes.

Table 2. Summary WCNP Breeding Bird Inventory 1999

* Species on South Dakota Natural Heritage List

Non-native Bird Species

SPECIES NAME	HIGHEST BEHAVIOR	BREEDING STATUS	BLOCKS W/ PO, PR, CO
Turkey Vulture	CO NY		5
Gadwall	PR P	Uncertain	1
Mallard	CO NE		13
Blue-winged Teal	PR P	Uncertain	2
Cinnamon Teal	PR P	Uncertain	1
Northern Shoveler	PR P	Uncertain	1
Northern Harrier	PO	Uncertain	1
Sharp-shinned Hawk *	PR A		1
Cooper's Hawk*	CO ON		5
Northern Goshawk *	PR A	Uncertain	2
Red-tailed Hawk	CO NY		9
Golden Eagle	CO NY		2
American Kestrel	CO NY		22
Merlin*	PO		1
Prairie Falcon*	CO NY		2
Sharp-tailed Grouse	CO PY		12
Wild Turkey	CO NE		17
Sora	CO NY		2
Killdeer	CO PY		9
American Avocet	PO	Uncertain	1
Spotted Sandpiper	PO	Uncertain	2
Upland Sandpiper	CO PY		26
Common Snipe	CO NE		4
Wilson's Phalarope	PO	Uncertain	1
Rock Dove #	PR P		4
Mourning Dove	CO NY		30
Great Horned Owl	CO NY		6
Burrowing Owl*	CO FL		1
Long-eared Owl *	CO NY		7
Northern Saw-whet Owl*	PO		7
Common Nighthawk	CO NE		27
Common Poorwill*	CO NY		16
White-throated Swift	CO ON		7
Belted Kingfisher	PR A		4
Lewis' Woodpecker*	CO CF		14
Red-headed Woodpecker	CO FY		8
Downy Woodpecker	CO ON		9
Hairy Woodpecker	CO NY		24
Black-backed Woodpecker*	PO		3
Northern Flicker	CO NY		37
Western Wood-Pewee	CO ON		22
Least Flycatcher	PR S	Uncertain	1
Dusky Flycatcher	CO NB		13

Table 2. (CONT.)

SPECIES NAME	HIGHEST BEHAVIOR	BREEDING STATUS	BLOCKS W/ PO, PR, CO
Cordilleran Flycatcher	CO NY		10
Say's Phoebe	PR T	Uncertain	1
Western Kingbird	PR P	Uncertain	3
Eastern Kingbird	CO NB		9
Loggerhead Shrike	PO	Uncertain	1
Plumbeous Vireo	CO NB		24
Warbling Vireo	PR P		9
Red-eyed Vireo	CO CF		2
Gray Jay	CO CF		7
Pinyon Jay	CO FY		7
Clark's Nutcracker*	PR A		2
Black-billed Magpie	CO NE		21
American Crow	CO FY		34
Horned Lark	PO		2
Violet-green Swallow	CO NY		13
Cliff Swallow	CO ON		8
Barn Swallow	CO NY		10
Black-capped Chickadee	CO NY		39
Red-breasted Nuthatch	CO NY		35
White-breasted Nuthatch	CO NY		23
Brown Creeper*	PR P		3
Rock Wren	PR S		15
Canyon Wren	CO CF		5
House Wren	CO NY		21
Eastern Bluebird	CO CF		14
Mountain Bluebird	CO ON		23
Townsend's Solitaire	PR P		18
Swainson's Thrush	PO	Uncertain	1
American Robin	CO NE		37
Gray Catbird	PR S		2
Brown Thrasher	CO FY		6
European Starling #	CO NY		9
Cedar Waxwing	CO NY		5
Yellow Warbler	CO FY		8
Chestnut-sided Warbler	PO	Uncertain	2
(Audubon's Warbler)	CO FY		32
American Redstart	CO FY		4
Ovenbird	PR S		11
Common Yellowthroat	CO FY		17
Yellow-breasted Chat	CO CF		17
Western Tanager	PR T		27
Spotted Towhee	CO FY		37
Chipping Sparrow	CO NY		38
Field Sparrow	CO CF		11
Vesper Sparrow	CO NE		40
Lark Sparrow	CO DD		17
Lark Bunting	PO	Uncertain	6

Table 2. (CONT.)

SPECIES NAME	HIGHEST BEHAVIOR	BREEDING STATUS	BLOCKS W/ PO, PR, CO
Grasshopper Sparrow	CO NE	Uncertain	30
Song Sparrow	PO		1
(White-winged Junco)	CO NE		23
Black-headed Grosbeak	PR A		10
Lazuli Bunting	PO		4
Indigo Bunting	PR S		2
Red-winged Blackbird	CO NE		15
Western Meadowlark	CO NE		38
Brewer's Blackbird	CO NE		18
Common Grackle	PR C		1
Brown-headed Cowbird	CO FY		28
Bullock's Oriole	PR P		4
Red Crossbill	CO FY		26
Pine Siskin	CO NB		13
American Goldfinch	CO NY		13

Figure 1 presents a summary of the number of species reported in each of the 46 atlas block subdivisions of Wind Cave National Park during the 1998 and 1999 breeding seasons. This form is an example of what will be used to present species data and distribution in the final report, after the survey is completed in the year 2000. The Data Summary (below, right) does not apply to the Species/Block for this year but will be used to present the data for each individual species in the final report. (The ///// shows where the actual figures will go next year)

FIGURE 1. BLOCK SPECIES TOTALS

Bird ID: /////

SPECIES / BLOCK

/////

DATA
SUMMARY

PO+PR+CO /46 = /////

BBS NUMBERS

1998 1999 2000
/////

OFF RD PT COUNTS

1998 1999 2000
/////

37	27	35		28	37	6	
WC01	WC02	WC03		WC04	WC05	WC06	
19	17	27	24	17	30	33	21
WC14	WC13	WC12	WC11	WC10	WC09	WC08	WC07
29	19	24	20	21	32	26	37
WC15	WC16	WC17	WC18	WC19	WC20	WC21	WC22
49	38	30	17	32	19	26	
WC29	WC28	WC27	WC26	WC25	WC24	WC23	
21	50	14	29	30	16	18	
WC46	WC30	WC31	WC32	WC33	WC34	WC35	
	37	48	47				
	WC38	WC37	WC36				
40	19	24	31				
WC39	WC40	WC41	WC42				
37	28	39					
WC45	WC44	WC43					

WIND CAVE NP
BREEDING BIRD ATLAS
1998 - 2000

Breeding Bird Monitoring Surveys

On Road Breeding Bird Survey (BBS) - 1999 Summary

The BBS was conducted on June 8 this year using the methods of the USGS, Biological Resource Division, Breeding Bird Surveys. This data has been submitted to Patuxent Wildlife Research Center in Maryland to become part of the national database on breeding birds. A total of 51 species were recorded on this route in 1999 compared to 52 in 1998. Complete results and comparison between years will be shown in the species accounts of the final report following next year's fieldwork. For this progress report only the most numerous and widespread species are listed below in Table 3.

Table 3. Breeding Bird Survey: WCNP 1999
Most Numerous Species

<u>Species</u>	<u>Total No.</u>	<u>No. of Stops</u>
Western Meadowlark	128	43
Red-winged Blackbird	28	12
Vesper Sparrow	22	15
Red Crossbill	20	8
Red-breasted Nuthatch	12	10
Spotted Towhee	18	15
American Crow	16	11
American Robin	14	12
Brewer's Blackbird	11	6

Off Road Point Count Transects - 1999 Summary

As described in last years Progress Report, 5 transects of 10 points each were established along hiking trails in WCNP: 1. Cold Brook; 2. Wind Cave Canyon; 3. Beaver Creek; 4. Rankin Ridge; and 5. Centennial Trail. These transects were run from June 16 - June 24 in 1999. Complete results of these transects, which will be run again next year, will be presented as part of the species accounts in the final report of the project. Only the most numerous species are shown below in Table 4. A total of 52 species were recorded on the 5 transects in 1999.

Table 4. Point Count Transect Totals for 1999: Most numerous species

<u>Species</u>	<u>Total Number Recorded</u>
American Robin	49
Red Crossbill	44
Violet Green Swallow	27
Western Wood Pewee	27
Western Meadowlark	26
House Wren	25
Black-capped Chickadee	21
Red-breasted Nuthatch	20
Dusky Flycatcher	19

COMMENTS ON 1999 RESULTS

Inventory

The inventory fieldwork was begun much earlier this year so that a greater portion of the total breeding season was covered. As a result more early nesting species, e.g., Red Crossbills, Clark's Nutcracker, Northern Saw Whet Owls, Long-eared Owls, Great Horned Owls and Sharp-tailed Grouse were found during the time of their primary breeding activity. In this regard special mention should be made of the efforts of Barbara Muenchau who was primarily responsible for documenting the location of many grouse leks. Fieldwork in 1999 greatly improved the coverage of all the atlas blocks - average species/block increasing by 10 (See Figure 1.). The current project list of possible nesting bird species in Wind Cave National Park is 88 species. At the end of the 1999 breeding season we had confirmed 68 out of the 88 species. This included at least a couple of species that were not previously known to nest in the park: Common Snipe and Sora. The Snipe and Sora were attracted to the area because of the unusually wet spring and early summer which provided better wetland habitat conditions than normal. Several duck species (including a pair of Cinnamon Teal) and shorebird migrants (including Greater Yellowlegs and Willets) were attracted to the Bison Flats pond in May creating quite a show for the local birders, however, the only duck species confirmed nesting was, as usual, the Mallard. If wet conditions continue Blue-wing Teal, Cinnamon Teal, Northern Shoveler, Gadwall, or possibly Wood Duck (a male was observed at "the pond" in late July) may come back to nest.

The breeding status of many species within WCNP remains uncertain, unknowns and questions outnumber the observations, brief glimpses of birds spark the imagination and our minds conjure up images of saw whet owls staring out of nest cavities and soras in Bison Flats pond. Inventories are never complete, nor settle all questions for all time. There has never been a final breeding bird list published for any place on earth. All our efforts provide only partial and temporarily valid results. How lucky we are that this is so!! The Wind Cave National Park Breeding Bird Inventory Project will be as complete and valid for the 3 years (1998-2000) as we can possibly make it, but there will always be new discoveries to be made in each and every block.

Monitoring

Breeding bird point count surveys along the park roads and trails have been established to monitor the trends of some of the bird species nesting in WCNP. It appears that the two types of surveys (on road and off road) compliment each other, rather than duplicate each other. The BBS route is mostly through the open grasslands and edge habitat. The off road transects cover more of the riparian zones, ponderosa woodland/forest and special habitat, e.g., cliffs.

The grassland species had higher counts at the 50 stops of the BBS, e.g., Western Meadowlark, Vesper Sparrow, Grasshopper Sparrow, Brown-headed Blackbird, and Upland Sandpiper. Most of the woodland/forest, riparian, and cliffs habitat species had higher counts on the 50 stops of the off road point count transects, e.g., Western Tanager, Audubon's Warbler, Plumbeous Vireo, House Wren, Yellow Warbler, Western Wood Pewee, Dusky Flycatcher, Cordilleran Flycatcher, Black-capped Chickadee, Red-breasted Nuthatch, Ovenbird, Warbling Vireo, Lazuli Bunting, and White-winged Junco. Lazuli Bunting, White-throated Swift, Violet-green Swallow and Canyon Wren only occurred on the off road transects, while Upland Sandpiper and Grasshopper Sparrows only occurred on the BBS route.

The BBS route is run one morning in June. The 5 off road transects require 5 mornings in June to run because they must be walked, and like the BBS they need to be run early morning. If time and money are a problem the BBS route should probably be the priority breeding bird monitoring method, but if time and money are not a problem both the BBS route and the off road transects should be run because together they provide a much better perspective of breeding bird trends.

ACKNOWLEDGMENTS

The list of people who have contributed observations to the inventory portion of this project continues to increase. The efforts of park service personnel and volunteers are greatly improving the completeness of this inventory - Thanks.

Contributors (with abbreviations used in database):

Jocelyn Baker(JB), The Butteries(BBB) (Doug (DB), Susie and Jessie), Marie Curtain(MC), Meghan Dinkins(MD), Martha Jakobek(MJ), Bob Kobza(BK), Mike Laycock(ML), Barbara Muenchau(BM), Kevin Raymon(KR), Dan Roddy(DR), James and SandyTaylor(J/ST), Jeremy Duckwitz & Dave Helon (J/D, the mammal guys), Helen Brooks & Bruce Mellberg(H/B), and myself, Richard Peterson (RP). (BBS=Breeding Bird Survey)

PLANNED WORK: 2000

2000 Inventory Work Plan

Begin early in spring (approx. April 15) to document owls and identify other potential raptor nest sites as well as locate grouse leks. Continue inventory work with visits to all blocks during breeding season. Upgrade as many species in each block as possible to confirmed breeding status. Spend more time in blocks which did not receive good coverage in 1999 and try to verify questionable 1999 reports.

2000 Monitoring Work Plan: On Road Survey

Repeat 50 stop Breeding Bird Survey (BBS) Route.

2000 Monitoring Work Plan: Off Road Point Counts

Repeat 5 off road point count transects.

Final Report

Complete the final report on the Wind Cave National Park Breeding Bird Inventory and Surveys as soon as possible after the year 2000 fieldwork. See page 4 (Figure 1.) for example of data presentation portion of species account page.

WIND CAVE NATIONAL PARK

BREEDING BIRD INVENTORY DATABASE 1998-1999

Note: Status; ? = species may/may not be breeding species in block; * = On SD Natural Heritage list; # = Non-native Bird Species
 BBS = Breeding Bird Survey; BST = Breeding Survey Transect; Adj. = Observed adjacent to Park

Observers: Jocelyn Baker(JB), The Butteries(BBB) (Doug (DB), Susie and Jessie), Marie Curtin(MC), Meghan Dinkins(MD), Martha Jakobek(MJ),
 Bob Kobza(BK), Mike Laycock(ML), Barbara Muenchau(BM), Kevin Raymon(KR), Dan Roddy(DR), James and SandyTaylor(J/ST),
 Jeremy Duckwitz & Dave Helon (J/D, the mammal guys), Helen Brooks & Bruce Mellberg(H/B), and myself, Richard Peterson (RP)

Date: Recorded date indicates the earliest date in which the highest breeding behavior was recorded

See Attachment A for explanation of B Code (breeding status code) and Behav Code (behavior code)

Name	Status	Block	B Code	Behav	Observer	Date
American Crow		WC01	PO		RP	06/05/1998
American Goldfinch		WC01	PO		AB	07/10/1998
American Robin		WC01	CO	NE	MD	07/05/1998
Audubon's Warbler		WC01	PR	P	RP	06/24/1999
Barn Swallow		WC01	PO		JB	05/25/1999
Black-backed Woodpecker	*	WC01	PO		RP	05/02/1999
Black-capped Chickadee		WC01	CO	CN	JB	05/25/1999
Brewer's Blackbird		WC01	CO	NE	JB	05/25/1999
Brown Creeper	*	WC01	PO		RP	07/20/1998
Brown-headed Cowbird		WC01	PO		RP	06/05/1998
Chipping Sparrow		WC01	PO		RP	06/05/1998
Clark's Nutcracker	*	WC01	O	O	RP	06/05/1998
Cliff Swallow		WC01	PO		RP	06/05/1998
Common Poorwill	*	WC01	PO		RP	05/16/1999
Common Yellowthroat	?	WC01	PO		JB	05/29/1999
Downy Woodpecker		WC01	PO		RP	05/02/1999
Eastern Bluebird		WC01	PR	N	JB	05/25/1999
Hairy Woodpecker		WC01	PO		RP	05/02/1999
House Wren		WC01	PR	C	JB	05/25/1999
Lark Sparrow	?	WC01	PO		JB	05/14/1999
Long-eared Owl	*	WC01	PO		RP	05/02/1999
Mountain Bluebird		WC01	PO		RP	06/05/1998
Mourning Dove		WC01	PO		JB	05/25/1999
Northern Flicker		WC01	CO	ON	JB	05/25/1999
Northern Saw-whet Owl	adj *	WC01	PO		RP	04/19/1999
Pine Siskin		WC01	PO		RP	07/20/1998
Plumbeous Vireo		WC01	CO	CN	JB	05/25/1999
Red Crossbill		WC01	CO	FL	JB	05/14/1999
Red-breasted Nuthatch		WC01	CO	NB	RP	05/02/1999
Rock Wren		WC01	PR	P	JB	05/25/1999
Spotted Towhee	?	WC01	PO		JB	05/14/1999
Townsend's Solitaire		WC01	PO		JB	05/25/1999
Vesper Sparrow		WC01	PO		RP	06/05/1998
Western Meadowlark		WC01	PR	M	JB	05/29/1999
Western Tanager		WC01	PR	P	RP	06/24/1999
White-breasted Nuthatch		WC01	PO		RP	06/05/1998
White-winged Junco		WC01	CO	FL	RP	07/06/1999
Wild Turkey		WC01	PO		RP	04/07/1999
American Crow		WC02	PO		RP	05/12/1999
American Robin		WC02	PO		RP	07/20/1998
Audubon's Warbler		WC02	PO		RP	07/20/1998

Name	Status	Block	B Code	Behav	Observer	Date
Barn Swallow		WC02	CO	NE	JB	05/25/1999
Black-billed Magpie		WC02	PR	P	RP	06/05/1998
Black-capped Chickadee		WC02	PO		RP	07/20/1998
Brewer's Blackbird		WC02	PO		RP	07/24/1998
Brown-headed Cowbird		WC02	PO		RP	05/12/1999
Chipping Sparrow		WC02	PO		RP	07/20/1998
Clark's Nutcracker	*	WC02	PO		RP	04/07/1999
Common Poorwill	*	WC02	PO		RP	05/16/1999
Golden Eagle		WC02	O	O	BM	07/10/1998
Grasshopper Sparrow		WC02	PO		RP	07/20/1998
Hairy Woodpecker		WC02	PO		RP	07/20/1998
Mallard		WC02	PO		BM	05/22/1998
Mountain Bluebird		WC02	PR	P	RP	05/12/1999
Northern Flicker		WC02	PR	P	RP	05/12/1999
Northern Saw-whet Owl	adj *	WC02	PO		RP	04/19/1999
Pine Siskin		WC02	PO		RP	07/20/1998
Pinyon Jay		WC02	PO		RP	05/12/1999
Red Crossbill		WC02	PO		RP	05/12/1999
Red-breasted Nuthatch		WC02	PR	B	RP	04/07/1999
Spotted Sandpiper	?	WC02	PO		BM	05/21/1998
Vesper Sparrow		WC02	PO		RP	07/20/1998
Western Meadowlark		WC02	PO		RP	07/20/1998
Western Tanager		WC02	PO		RP	07/20/1998
White-breasted Nuthatch		WC02	PO		RP	04/07/1999
White-winged Junco		WC02	PO		RP	07/20/1998
American Crow		WC03	PO		RP	04/07/1999
American Kestrel		WC03	CO	ON	RP	07/10/1998
American Robin		WC03	PO		RP	07/10/1998
Audubon's Warbler		WC03	PO		RP	07/10/1998
Black-capped Chickadee		WC03	PO		RP	06/10/1998
Brown-headed Cowbird		WC03	PO		RP	07/10/1998
Chipping Sparrow		WC03	PO		RP	07/10/1998
Clark's Nutcracker	*	WC03	PR	A	RP	04/07/1999
Common Nighthawk		WC03	PO		RP	06/26/1999
Common Poorwill	*	WC03	PO		RP	05/12/1999
Cooper's Hawk	*	WC03	O	O	BBS98	06/15/1998
Downy Woodpecker		WC03	PO		RP	05/12/1999
Eastern Bluebird		WC03	CO	ON	BM	06/16/1998
European Starling	#	WC03	CO	NY	BM	06/16/1998
Grasshopper Sparrow		WC03	PO		RP	07/10/1998
Gray Jay		WC03	PR	P	RP	04/07/1999
Hairy Woodpecker		WC03	PR	A	RP	06/26/1999
House Wren		WC03	PO		RP	07/10/1998
Mallard		WC03	PR	P	RP	05/02/1999
Mountain Bluebird		WC03	CO	CN	RP	05/02/1999
Mourning Dove		WC03	CO	ON	RP	07/10/1998
Northern Flicker		WC03	PO		RP	07/10/1998
Northern Saw-whet Owl	*	WC03	PO		RP	04/07/1999
Pine Siskin		WC03	PO		RP	07/10/1998

Name	Status	Block	B Code	Behav	Observer	Date
Pinyon Jay		WC03	PR	A	RP	05/02/1999
Plumbeous Vireo		WC03	PO		RP	06/22/1999
Red Crossbill		WC03	O	O	RP	07/10/1998
Red-breasted Nuthatch		WC03	PO		RP	07/10/1998
Red-tailed Hawk		WC03	CO	ON	RP	05/02/1999
Red-winged Blackbird		WC03	PO		RP	06/10/1998
Townsend's Solitaire		WC03	PR	P	RP	06/26/1999
Vesper Sparrow		WC03	PO		RP	07/10/1998
Western Tanager		WC03	PR	P	RP	07/10/1998
Western Wood-Pewee		WC03	PO		RP	06/22/1999
White-breasted Nuthatch		WC03	PR	P	RP	05/02/1999
White-winged Junco		WC03	PO		RP	07/10/1998
Wild Turkey		WC03	PO		RP	04/07/1999
American Robin		WC04	CO	UN	RP	07/05/1999
Audubon's Warbler		WC04	PO		RP	07/05/1999
Barn Swallow		WC04	CO	UN	RP	07/05/1999
Belted Kingfisher		WC04	PO		RP	05/12/1999
Black-capped Chickadee		WC04	PO		RP	04/19/1999
Chipping Sparrow		WC04	CO	FL	RP	07/05/1999
Common Nighthawk		WC04	PO		RP	07/09/1998
Common Yellowthroat		WC04	PO		RP	07/10/1998
European Starling	#	WC04	CO	NY	RP	07/05/1999
Grasshopper Sparrow		WC04	PO		BBS	06/12/1999
Killdeer		WC04	CO	PY	BM	06/09/1998
Lark Bunting	?	WC04	PO		RP	06/08/1999
Mallard		WC04	PR	P	RP	05/12/1999
Mountain Bluebird		WC04	PO		RP	07/05/1999
Mourning Dove		WC04	PO		RP	07/05/1999
Northern Flicker		WC04	CO	NY	RP	07/05/1999
Plumbeous Vireo		WC04	PO		RP	07/05/1999
Red Crossbill		WC04	PO		RP	04/19/1999
Red-breasted Nuthatch		WC04	PO		RP	04/19/1999
Red-tailed Hawk		WC04	PR	A	BM	06/30/1998
Red-winged Blackbird		WC04	PO		RP	07/10/1998
Sharp-tailed Grouse		WC04	CO	PY	RP	07/05/1999
Spotted Towhee		WC04	PO		RP	07/05/1999
Upland Sandpiper		WC04	CO	PY	MJ	06/29/1999
Vesper Sparrow		WC04	PO		RP	06/10/1998
Western Meadowlark		WC04	PO		RP	06/10/1998
Western Wood-Pewee		WC04	PO		RP	07/05/1999
White-winged Junco		WC04	PO		RP	07/05/1999
American Crow		WC05	PO		RP	05/30/1998
American Goldfinch		WC05	PO		RP	05/30/1998
American Robin		WC05	PO		RP	04/19/1999
Barn Swallow		WC05	PO		RP	05/30/1998
Black-billed Magpie		WC05	CO	ON	BM	07/07/1998
Black-capped Chickadee		WC05	CO	NY	BM	07/07/1998
Brewer's Blackbird		WC05	PR	C	RP	05/30/1998
Brown Thrasher		WC05	PO		RP	05/30/1998
Brown-headed Cowbird		WC05	PO		RP	05/30/1998

Name	Status	Block	B Code	Bchay	Observer	Date
Bullock's Oriole		WC05	PO		RP	06/21/1998
Chipping Sparrow		WC05	PO		RP	07/05/1999
Common Nighthawk		WC05	CO	NE	RP	06/22/1998
Common Snipe		WC05	PR	S	RP	06/08/1999
Common Yellowthroat		WC05	PO		RP	06/22/1998
Eastern Kingbird		WC05	PR	P	RP	05/30/1998
European Starling	#	WC05	CO	NY	RP	05/30/1998
Field Sparrow		WC05	CO	CF	RP	07/09/1999
Golden Eagle		WC05	O	O	BM	07/07/1998
Grasshopper Sparrow		WC05	PO		RP	05/30/1998
Hairy Woodpecker		WC05	PO		RP	07/09/1999
Lewis' Woodpecker	*	WC05	PO		RP	06/22/1998
Mourning Dove		WC05	CO	NY	BM	07/07/1998
Northern Flicker		WC05	CO	FL	RP	07/09/1999
Red Crossbill		WC05	PO		RP	04/19/1999
Red-breasted Nuthatch		WC05	PO		RP	04/19/1999
Red-headed Woodpecker		WC05	PO		RP	06/22/1998
Red-tailed Hawk		WC05	PR	A	BM	07/07/1998
Red-winged Blackbird		WC05	PR	P	RP	05/30/1998
Rock Wren		WC05	PO		RP	07/09/1999
Sharp-tailed Grouse		WC05	PR	C	RP	03/30/1999
Spotted Towhee		WC05	CO	NB	RP	05/30/1998
Upland Sandpiper		WC05	PO		RP	06/15/1998
Vesper Sparrow		WC05	PO		RP	07/05/1999
Western Meadowlark		WC05	PO		RP	05/30/1998
Western Tanager		WC05	PR	P	RP	07/09/1999
White-winged Junco		WC05	PO		RP	07/09/1999
Wild Turkey		WC05	PO		RP	07/05/1999
Yellow-breasted Chat		WC05	PO		RP	05/30/1998
Grasshopper Sparrow		WC06	PO		RP	06/22/1998
Killdeer		WC06	PR	A	BM	06/24/1998
Red-winged Blackbird		WC06	PO		RP	05/17/1999
Turkey Vulture		WC06	O	O	BM	06/24/1998
Upland Sandpiper		WC06	PO		RP	05/17/1999
Vesper Sparrow		WC06	PO		RP	05/17/1999
Western Meadowlark		WC06	PO		RP	06/22/1998
American Crow		WC07	PO		RP	05/17/1999
American Kestrel		WC07	CO	ON	BM	07/07/1998
Black-billed Magpie		WC07	CO	ON	BM	06/23/1998
Common Poorwill	*	WC07	PO		J/D	06/07/1999
Common Snipe		WC07	CO	NE	RP	05/17/1999
Common Yellowthroat		WC07	PO		RP	06/22/1998
Field Sparrow		WC07	PO		RP	05/17/1999
Grasshopper Sparrow		WC07	PO		RP	06/22/1998
Killdeer		WC07	PR	A	BM	06/23/1998
Lark Sparrow		WC07	PO		RP	05/17/1999
Lewis' Woodpecker	*	WC07	PO		RP	05/17/1999
Northern Flicker		WC07	CO	NY	BM	07/07/1998
Red-winged Blackbird		WC07	CO	NE	J/D	06/07/1999

Name	Status	Block	B Code	Behav	Observer	Date
Rock Wren		WC07	PO		RP	05/17/1999
Sharp-tailed Grouse		WC07	PO		RP	05/17/1999
Spotted Towhee		WC07	PO		RP	06/22/1998
Upland Sandpiper		WC07	PR	A	RP	05/17/1999
Vesper Sparrow		WC07	PR	M	RP	05/17/1999
Western Meadowlark		WC07	PO		RP	06/22/1998
Yellow-breasted Chat		WC07	PO		RP	06/22/1998
American Crow		WC08	PO		RP	05/17/1999
American Kestrel		WC08	CO	ON	RP	07/09/1999
Audubon's Warbler		WC08	PO		RP	07/01/1998
Barn Swallow	?	WC08			RP	05/17/1999
Black-capped Chickadee		WC08	PO		RP	07/01/1998
Brewer's Blackbird		WC08	PR	P	RP	05/17/1999
Brown Thrasher		WC08	PO		RP	06/22/1998
Brown-headed Cowbird		WC08	PO		RP	05/30/1998
Chipping Sparrow		WC08	PO		RP	07/01/1998
Common Snipe		WC08	PR	S	RP	07/09/1999
Common Yellowthroat		WC08	PO		RP	05/30/1998
Eastern Kingbird		WC08	PO		RP	06/22/1998
European Starling	#	WC08	CO	FY	RP	05/30/1998
Field Sparrow		WC08	PO		RP	07/01/1998
Grasshopper Sparrow		WC08	PO		RP	05/30/1998
Hairy Woodpecker		WC08	PR	A	RP	07/01/1998
House Wren		WC08	PO		RP	05/17/1999
Killdeer		WC08	PO		RP	05/17/1999
Lark Bunting		WC08	PO		DR	06/11/1998
Lewis' Woodpecker	*	WC08	PR	P	RP	05/12/1999
Mallard		WC08	PO		RP	05/06/1999
Mountain Bluebird	?	WC08	PO		RP	07/01/1998
Mourning Dove		WC08	PO		RP	06/15/1998
Northern Flicker		WC08	CO	FL	RP	07/09/1999
Red-breasted Nuthatch		WC08	PO		RP	07/01/1998
Red-tailed Hawk		WC08	O	O	RP	05/30/1998
Red-winged Blackbird		WC08	PR	P	RP	05/30/1998
Rock Wren		WC08	PO		RP	05/17/1999
Spotted Towhee		WC08	PO		RP	05/17/1999
Upland Sandpiper		WC08	PR	P	RP	05/30/1998
Vesper Sparrow		WC08	PR	T	RP	05/06/1999
Western Meadowlark		WC08	PO		RP	05/30/1998
Western Tanager		WC08	PO		RP	07/01/1998
Western Wood-Pewee		WC08	PO		RP	07/01/1998
Yellow-breasted Chat		WC08	PO		RP	07/01/1998
American Crow		WC09	PO		BM	06/30/1998
American Kestrel		WC09	CO	NY	BM	06/30/1998
American Robin		WC09	CO	FY	BM	06/30/1998
Audubon's Warbler		WC09	CO	CN	BM	06/09/1998
Black-capped Chickadee		WC09	PO		RP	05/18/1999
Brewer's Blackbird		WC09	CO	FY	RP	07/09/1999
Brown Thrasher		WC09	PO		BM	06/09/1998
Brown-headed Cowbird		WC09	PO		BM	06/30/1998

Name	Status	Block	B Code	Behav	Observer	Date
Bullock's Oriole		WC09	PR	P	RP	07/09/1999
Chipping Sparrow		WC09	PO		RP	05/30/1998
Common Nighthawk		WC09	PR	P	RP	07/09/1999
Common Poorwill	*	WC09	PO		RP	05/16/1999
Eastern Bluebird		WC09	PO		RP	05/30/1998
Grasshopper Sparrow		WC09	PO		RP	05/30/1998
Great Horned Owl		WC09	PO		RP	03/30/1999
House Wren		WC09	PO		RP	05/18/1999
Lewis' Woodpecker	*	WC09	CO	ON	RP	05/30/1998
Mourning Dove		WC09	PO		RP	05/30/1998
Northern Flicker		WC09	CO	FL	BM	07/09/1999
Pine Siskin		WC09	PO		RP	05/30/1998
Red Crossbill		WC09	O	O	RP	05/30/1998
Red-breasted Nuthatch		WC09	PO		RP	05/18/1999
Red-tailed Hawk		WC09	PR	P	RP	05/30/1998
Spotted Towhee		WC09	PO		RP	05/30/1998
Townsend's Solitaire		WC09	PR	P	RP	05/18/1999
Turkey Vulture		WC09	O	O	RP	07/09/1999
Upland Sandpiper		WC09	PR	A	BM	06/30/1998
Vesper Sparrow		WC09	PO		RP	05/30/1998
Western Kingbird	?	WC09	PR	P	RP	05/30/1998
Western Meadowlark		WC09	PO		RP	05/30/1998
Western Wood-Pewee		WC09	PO		BM	06/30/1998
White-breasted Nuthatch		WC09	CO	NY	BM	06/09/1998
American Robin		WC10	PR	P	RP	05/16/1999
Audubon's Warbler		WC10	PO		RP	05/16/1999
Black-capped Chickadee		WC10	PO		RP	05/16/1999
Brown-headed Cowbird		WC10	PO		RP	05/16/1999
Chipping Sparrow		WC10	PO		RP	05/16/1999
Common Nighthawk		WC10	PO		RP	07/09/1998
Grasshopper Sparrow		WC10	PO		RP	07/24/1998
Gray Jay		WC10	PO		RP	05/16/1999
Merlin	*	WC10	O	O	J/D	07/31/1999
Red Crossbill		WC10	O	O	RP	05/16/1999
Red-breasted Nuthatch		WC10	PO		RP	05/16/1999
Red-tailed Hawk		WC10	O	O	RP	06/15/1998
Sharp-tailed Grouse		WC10	PR	C	RP	04/19/1999
Spotted Towhee		WC10	PO		RP	05/16/1999
Upland Sandpiper		WC10	PO		RP	06/15/1998
Vesper Sparrow		WC10	CO	NE	MD	07/09/1998
Western Meadowlark		WC10	PO		RP	07/24/1998
White-breasted Nuthatch		WC10	PO		RP	05/16/1999
White-winged Junco		WC10	PR	P	RP	05/16/1999
Yellow-breasted Chat		WC10	CO	CN	BM	06/09/1998
American Kestrel		WC11	PO		RP	05/15/1999
American Robin		WC11	CO	FL	RP	07/08/1999
Audubon's Warbler		WC11	PO		RP	05/15/1999
Black-capped Chickadee		WC11	PO		RP	05/15/1999
Blue-winged Teal	?	WC11	PR	P	RP	05/15/1999
Chipping Sparrow		WC11	CO	FL	RP	07/08/1999

Name	Status	Block	B Code	Behav	Observer	Date
European Starling	#	WC11	CO	NY	DR	06/30/1998
Grasshopper Sparrow		WC11	PO		RP	07/24/1998
Hairy Woodpecker		WC11	PO		RP	07/08/1999
House Wren		WC11	PO		RP	07/08/1999
Lewis' Woodpecker	*	WC11	CO	ON	DR	06/30/1998
Loggerhead Shrike	?	WC11	PO		BM	05/12/1999
Mallard		WC11	CO	PY	JT	06/10/1998
Mountain Bluebird		WC11	PO		JT	06/10/1998
Northern Flicker		WC11	PO		DR	06/30/1998
Plumbeous Vireo		WC11	PO		RP	07/08/1999
Red Crossbill		WC11	PO		RP	05/15/1999
Red-breasted Nuthatch		WC11	PO		RP	05/15/1999
Townsend's Solitaire		WC11	PO		RP	05/15/1999
Upland Sandpiper		WC11	PO		JT	06/10/1998
Vesper Sparrow		WC11	PO		RP	05/15/1999
Western Meadowlark		WC11	CO	CF	RP	07/24/1998
Western Wood-Pewee		WC11	PO		RP	07/08/1999
White-breasted Nuthatch		WC11	PO		RP	05/15/1999
American Crow		WC12	CO	FL	RP	07/11/1998
American Robin		WC12	PO		RP	07/11/1998
Audubon's Warbler		WC12	PO		RP	07/11/1998
Black-billed Magpie		WC12	PO		RP	07/11/1998
Black-capped Chickadee		WC12	PR	P	RP	05/12/1999
Brown-headed Cowbird		WC12	PO		BST	06/22/1999
Chipping Sparrow		WC12	PO		RP	07/11/1998
Clark's Nutcracker	*	WC12	O	O	RP	07/08/1999
Common Poorwill	*	WC12	PO		RP	05/12/1999
Hairy Woodpecker		WC12	PO		RP	07/11/1998
Long-eared Owl	*	WC12	PO		RP	05/12/1999
Mountain Bluebird		WC12	PO		RP	07/11/1998
Mourning Dove		WC12	PO		RP	05/02/1999
Northern Flicker		WC12	PO		RP	07/11/1998
Pine Siskin		WC12	PO		RP	07/11/1998
Pinyon Jay		WC12	PO		RP	05/12/1999
Plumbeous Vireo		WC12	PO		RP	07/11/1998
Red Crossbill		WC12	PO		RP	05/12/1999
Red-breasted Nuthatch		WC12	PO		RP	07/11/1998
Rock Wren		WC12	PO		RP	07/11/1998
Townsend's Solitaire		WC12	PO		RP	07/11/1998
Turkey Vulture		WC12	O	O	RP	07/08/1999
Vesper Sparrow		WC12	CO	CF	BST	06/22/1999
Western Meadowlark		WC12	PO		RP	07/11/1998
Western Tanager		WC12	PO		BST	06/22/1999
Western Wood-Pewee		WC12	PR	S	RP	07/08/1999
White-breasted Nuthatch		WC12	CO	FL	RP	07/08/1999
White-winged Junco		WC12	PO		RP	07/11/1998
Wild Turkey		WC12	PO		RP	05/12/1999
American Crow		WC13	PO		RP	05/12/1999
American Robin		WC13	PO		RP	05/03/1999
Audubon's Warbler		WC13	PO		RP	05/03/1999

Name	Status	Block	B Code	Bchay	Observer	Date
Black-billed Magpie		WC13	PO		RP	05/12/1999
Black-capped Chickadee		WC13	PO		BM	06/24/1998
Golden Eagle	?	WC13	PO		RP	05/03/1999
Hairy Woodpecker		WC13	PR	B	RP	05/12/1999
Mountain Bluebird		WC13	PO		RP	05/12/1999
Mourning Dove		WC13	PO		RP	05/12/1999
Northern Flicker		WC13	PR	P	RP	05/03/1999
Northern Goshawk	? *	WC13	PO		BM	06/24/1998
Northern Saw-whet Owl	*	WC13	PO		RP	04/17/1999
Red-breasted Nuthatch		WC13	CO	ON	RP	05/12/1999
Red-tailed Hawk		WC13	O	O	BM	06/24/1998
Townsend's Solitaire		WC13	PO		RP	05/03/1999
Vesper Sparrow		WC13	PO		RP	05/12/1999
Western Meadowlark		WC13	PO		RP	05/12/1999
White-breasted Nuthatch		WC13	PO		RP	05/03/1999
White-winged Junco		WC13	PO		RP	05/03/1999
American Crow		WC14	PO		BM	06/24/1998
American Robin		WC14	PO		RP	06/05/1998
Audubon's Warbler		WC14	PO		RP	06/05/1998
Black-billed Magpie		WC14	PO		BM	06/24/1998
Black-capped Chickadee		WC14	PO		RP	06/05/1998
Brown-headed Cowbird		WC14	PO		BST	06/24/1999
Chipping Sparrow		WC14	PR	P	RP	05/11/1999
Clark's Nutcracker	*	WC14	O	O	BM	06/24/1998
Common Poorwill	*	WC14	PO		DR	07/12/1998
Gray Jay		WC14	PO		DR	06/24/1999
Northern Flicker		WC14	PO		RP	05/11/1999
Northern Saw-whet Owl	adj *	WC14	PO		RP	03/30/1999
Pinyon Jay		WC14	O	O	BM	06/24/1998
Plumbeous Vireo		WC14	PO		RP	06/05/1998
Red Crossbill		WC14	CO	FY	RP	05/02/1999
Red-breasted Nuthatch		WC14	CO	ON	RP	05/02/1999
Townsend's Solitaire		WC14	PO		DR	06/24/1999
Vesper Sparrow		WC14	PO		RP	05/11/1999
Western Tanager		WC14	PO		RP	06/05/1998
White-breasted Nuthatch		WC14	PO		BST	06/24/1999
White-winged Junco		WC14	PO		RP	06/05/1998
American Robin		WC15	PO		RP	06/05/1998
Audubon's Warbler		WC15	PO		RP	06/05/1998
Black-backed Woodpecker	*	WC15	PO		BM	05/22/1998
Black-capped Chickadee		WC15	PR	T	RP	05/11/1999
Brown Creeper	*	WC15	PO		RP	05/04/1999
Brown-headed Cowbird		WC15	PO		RP	06/05/1998
Chipping Sparrow		WC15	PO		RP	06/05/1998
Common Nighthawk		WC15	CO	NE	J/D	07/09/1998
Cordilleran Flycatcher		WC15	CO	NY	J/D	07/05/1999
Downy Woodpecker		WC15	PO		BM	07/09/1998
Hairy Woodpecker		WC15	CO	NY	RP	07/22/1998
Long-eared Owl	? *	WC15	PO		J/D	07/24/1999
Mourning Dove		WC15	PO		DR	06/09/1998

Name	Status	Block	B Code	Behav	Observer	Date
Northern Flicker		WC15	PO		RP	05/11/1999
Northern Saw-whet Owl	*	WC15	PO		RP	04/07/1999
Ovenbird		WC15	PO		DR	06/09/1998
Plumbeous Vireo		WC15	PO		RP	06/05/1998
Red Crossbill		WC15	PO	O	RP	04/07/1999
Red-breasted Nuthatch		WC15	CO	ON	RP	06/24/1999
Red-tailed Hawk		WC15	O	O	BM	06/09/1998
Spotted Towhee		WC15	CO	FL	RP	07/16/1999
Swainson's Thrush	?	WC15	PO		DR	06/09/1998
Townsend's Solitaire		WC15	PO		RP	07/22/1998
Turkey Vulture		WC15	O	O	BM	07/09/1998
Vesper Sparrow		WC15	PO		RP	05/04/1999
Violet-green Swallow		WC15	PO		DR	07/09/1998
Warbling Vireo		WC15	PO		RP	06/05/1998
Western Tanager		WC15	PO		RP	07/22/1998
Western Wood-Pewee		WC15	PO		RP	07/22/1998
White-breasted Nuthatch		WC15	PR	P	RP	05/11/1999
White-winged Junco		WC15	CO	DD	DR	06/09/1998
Wild Turkey		WC15	CO	NE	BM	07/09/1998
American Robin		WC16	PO		RP	07/22/1998
Audubon's Warbler		WC16	PR	P	RP	07/22/1998
Black-capped Chickadee		WC16	PO		RP	07/22/1998
Brown Creeper	*	WC16	PR	P	RP	05/04/1999
Chipping Sparrow		WC16	CO	FL	RP	07/14/1999
Gray Jay		WC16	PO		RP	05/11/1999
Hairy Woodpecker		WC16	PR	P	RP	07/14/1999
Northern Saw-whet Owl	*	WC16	PO		RP	04/17/1999
Ovenbird		WC16	PO		RP	07/22/1998
Pine Siskin		WC16	O	O	RP	07/22/1998
Plumbeous Vireo		WC16	PO		RP	07/22/1998
Red Crossbill		WC16	PO		RP	05/04/1999
Red-breasted Nuthatch		WC16	PO		RP	05/11/1999
Townsend's Solitaire		WC16	PO		RP	07/22/1998
Vesper Sparrow		WC16	PO		RP	07/14/1999
Western Tanager		WC16	PO		RP	07/22/1998
Western Wood-Pewee		WC16	PO		RP	07/22/1998
White-breasted Nuthatch		WC16	PO		RP	05/11/1999
White-winged Junco		WC16	CO	FL	RP	07/14/1999
Wild Turkey		WC16	PO		RP	07/14/1999
American Crow		WC17	PO		RP	05/12/1999
American Robin		WC17	PO		RP	07/22/1998
Audubon's Warbler		WC17	PO		RP	07/22/1998
Black-capped Chickadee		WC17	PO		RP	07/22/1998
Brown-headed Cowbird		WC17	PO		RP	07/08/1999
Chipping Sparrow		WC17	PO		RP	07/22/1998
Eastern Bluebird		WC17	CO	CF	RP	07/08/1999
Gray Jay		WC17	PO		RP	07/08/1999
Hairy Woodpecker		WC17	PO		RP	07/22/1998
House Wren		WC17	PO		RP	07/08/1999
Mountain Bluebird		WC17	CO	ON	RP	05/12/1999

Name	Status	Block	B Code	Behav	Observer	Date
Northern Flicker		WC17	PO		RP	07/08/1999
Ovenbird		WC17	PO		RP	07/22/1998
Plumbeous Vireo		WC17	PO		RP	07/22/1998
Red Crossbill		WC17	PO		RP	05/12/1999
Red-breasted Nuthatch		WC17	PO		RP	07/22/1998
Sharp-shinned Hawk	*	WC17	PR	A	RP	05/12/1999
Spotted Towhee		WC17	PO		RP	07/22/1998
Townsend's Solitaire		WC17	PO		RP	05/12/1999
Vesper Sparrow		WC17	PO		RP	05/12/1999
Western Meadowlark		WC17	PO		RP	05/12/1999
Western Tanager		WC17	PO		RP	07/22/1998
Western Wood-Pewee		WC17	PO		RP	07/08/1999
White-winged Junco		WC17	PO		RP	07/22/1998
American Crow		WC18	CO	FL	RP	07/24/1998
American Robin		WC18	PO		RP	07/24/1998
Audubon's Warbler		WC18	PO		RP	07/24/1998
Black-billed Magpie		WC18	PO		RP	05/16/1999
Black-capped Chickadee		WC18	PO		RP	07/24/1998
Cordilleran Flycatcher		WC18	PO		RP	07/24/1998
European Starling	#	WC18	CO	FS	RP	05/16/1999
House Wren		WC18	PO		RP	05/16/1999
Lark Sparrow		WC18	PO		RP	07/24/1998
Lewis' Woodpecker	*	WC18	PO		RP	07/24/1998
Mourning Dove		WC18	PO		RP	05/16/1999
Plumbeous Vireo		WC18	PO		RP	07/24/1998
Red Crossbill		WC18	PO		RP	05/16/1999
Red-breasted Nuthatch		WC18	PO		RP	07/24/1998
Spotted Towhee		WC18	PO		RP	07/24/1998
Townsend's Solitaire		WC18	PO		RP	07/24/1998
Vesper Sparrow		WC18	PO		RP	05/16/1999
Western Meadowlark		WC18	PO		RP	05/16/1999
Western Tanager		WC18	PO		RP	07/24/1998
White-winged Junco		WC18	PO		RP	07/24/1998
American Crow		WC19	CO	FL	RP	06/21/1998
American Kestrel		WC19	PO		RP	07/16/1999
Audubon's Warbler		WC19	PO		RP	06/21/1998
Barn Swallow		WC19	O	O	RP	05/16/1999
Black-billed Magpie		WC19	PO		RP	06/21/1998
Black-capped Chickadee		WC19	PO		RP	06/10/1998
Brown-headed Cowbird		WC19	PO		RP	05/16/1999
Chipping Sparrow		WC19	PO		RP	06/21/1998
Common Nighthawk		WC19	PO		RP	06/21/1998
Common Poorwill	*	WC19	PO		RP	07/09/1998
Dusky Flycatcher		WC19	PO		RP	06/21/1998
Lark Sparrow		WC19	PR	P	RP	05/16/1999
Mallard		WC19	PO		RP	05/16/1999
Mourning Dove		WC19	PO		RP	05/16/1999
Northern Flicker		WC19	PO		RP	06/21/1998
Red Crossbill		WC19	O	O	RP	06/21/1998
Red-breasted Nuthatch		WC19	PO		RP	05/16/1999

Name	Status	Block	B Code	Behav	Observer	Date
Red-tailed Hawk	?	WC19			?	
Sharp-shinned Hawk	*	WC19	O	O	BBS99	06/22/1999
Spotted Towhee		WC19	PO		RP	06/10/1998
Upland Sandpiper		WC19	PO		RP	06/21/1998
Vesper Sparrow		WC19	PO		RP	05/16/1999
Western Meadowlark		WC19	PO		RP	06/10/1998
Wild Turkey		WC19	PO		RP	05/16/1999
Yellow-breasted Chat		WC19	PO		RP	06/21/1998
American Crow		WC20	PO		RP	06/21/1998
American Goldfinch		WC20	PO		RP	06/21/1998
American Kestrel		WC20	PR	C	RP	05/21/1999
American Robin		WC20	PO		RP	06/21/1998
Black-billed Magpie		WC20	PR	P	RP	05/04/1999
Black-capped Chickadee		WC20	PO		RP	06/21/1998
Blue Jay	?	WC20	O	O	RP	05/04/1999
Brewer's Blackbird		WC20	PR	T	RP	05/30/1998
Brown Thrasher		WC20	CO	FY	RP	07/16/1999
Chipping Sparrow		WC20	PO		RP	06/21/1998
Common Nighthawk		WC20	PO		RP	07/09/1998
Common Poorwill	*	WC20	PO		RP	07/09/1998
Common Snipe		WC20	PO		BBS99	06/22/1999
Common Yellowthroat		WC20	PO		RP	06/26/1999
Cordilleran Flycatcher		WC20	PO		RP	06/21/1998
Eastern Kingbird		WC20	PR	P	RP	05/30/1998
European Starling	#	WC20	PO		RP	05/30/1998
Golden Eagle		WC20	O	O	BBS98	06/15/1998
Grasshopper Sparrow		WC20	PO		RP	05/30/1998
Great Horned Owl		WC20	PO		KR	05/18/1999
Lark Sparrow		WC20	PO		RP	06/10/1998
Lewis' Woodpecker	*	WC20	PO		BBS99	06/22/1999
Mallard		WC20	CO	PY	J/D	07/26/1999
Mountain Bluebird		WC20	PO		J/D	06/13/1999
Mourning Dove		WC20	CO	NE	MD	07/01/1998
Northern Flicker		WC20	PO		RP	05/04/1999
Northern Harrier	?	WC20	PO		RP	05/04/1999
Red-tailed Hawk		WC20	PO		MD	07/01/1998
Red-winged Blackbird		WC20	FY		RP	07/16/1999
Rock Dove	#	WC20	PO		RP	06/21/1998
Sharp-tailed Grouse		WC20	PO		RP	05/30/1998
Spotted Towhee		WC20	PO		RP	05/30/1998
Upland Sandpiper		WC20	PO		RP	05/04/1999
Vesper Sparrow		WC20	PO		RP	06/21/1998
Western Meadowlark		WC20	PO		RP	06/21/1998
American Crow		WC21	CO	FL	RP	06/30/1998
American Kestrel		WC21	PR	A	RP	06/30/1998
Audubon's Warbler		WC21	PO		RP	06/09/1998
Barn Swallow		WC21	O	O	RP	05/24/1999
Black-billed Magpie		WC21	CO	FL	RP	07/01/1998
Black-capped Chickadee		WC21	PR	S	RP	06/30/1998
Chipping Sparrow		WC21	CO	CF	BM	06/23/1998

Name	Status	Block	E Code	Behav	Observer	Date
Cooper's Hawk	*	WC21	CO	ON	RP	06/30/1998
Eastern Bluebird		WC21	PO		RP	07/01/1998
Field Sparrow		WC21	PO		RP	07/01/1998
Grasshopper Sparrow		WC21	PR	S	RP	06/30/1998
Great Horned Owl		WC21	PO		RP	03/30/1999
Hairy Woodpecker		WC21	PR	P	RP	07/01/1998
Mallard		WC21	PR	P	RP	06/09/1998
Mountain Bluebird		WC21	PO		RP	07/01/1998
Mourning Dove		WC21	PR	P	BM	06/23/1998
Northern Flicker		WC21	PO		RP	07/01/1998
Pinyon Jay		WC21	PO		RP	05/24/1999
Red Crossbill		WC21	PO		RP	05/24/1999
Red-breasted Nuthatch		WC21	PR	S	RP	06/30/1998
Rock Wren		WC21	PO		RP	07/01/1998
Sharp-tailed Grouse		WC21	PR	C	RP	05/24/1999
Spotted Towhee		WC21	PR	S	RP	06/30/1998
Turkey Vulture		WC21	O	O	BM	06/23/1998
Upland Sandpiper		WC21	PO		BM	06/23/1998
Western Meadowlark		WC21	PR	S	RP	06/30/1998
Western Wood-Pewee		WC21	PO		BM	06/23/1998
White-winged Junco		WC21	PO		RP	07/01/1998
American Crow		WC22	CO	FL	RP	06/30/1998
American Kestrel		WC22	CO	CF	DR	06/23/1998
American Redstart		WC22	PO		BM	06/23/1998
American Robin		WC22	PO		RP	06/30/1998
Audubon's Warbler		WC22	PO		RP	06/30/1998
Black-billed Magpie		WC22	PO		BM	06/23/1998
Black-capped Chickadee		WC22	PO		RP	06/30/1998
Black-headed Grosbeak		WC22	PO		RP	06/30/1998
Brown-headed Cowbird		WC22	PO		RP	05/24/1999
Chipping Sparrow		WC22	CO	FL	RP	06/30/1998
Common Nighthawk		WC22	PO		BM	06/23/1998
Common Yellowthroat		WC22	PO		RP	05/24/1999
Cooper's Hawk	*	WC22	CO	ON	RP	05/24/1999
Eastern Bluebird		WC22	PO		DR	06/23/1998
Field Sparrow		WC22	PO		DR	06/23/1998
Golden Eagle		WC22	O	O	RP	05/24/1999
Grasshopper Sparrow		WC22	PO		RP	06/30/1998
Hairy Woodpecker		WC22	PR	P	RP	06/30/1998
Lark Sparrow		WC22	PO		RP	06/30/1998
Mountain Bluebird		WC22	PO		DR	06/23/1998
Mourning Dove		WC22	PR	P	RP	05/24/1999
Northern Flicker		WC22	PO		RP	06/30/1998
Osprey	?*	WC22	O	O	RP	05/24/1999
Pinyon Jay		WC22	PO		RP	05/24/1999
Plumbeous Vireo		WC22	PO		RP	06/30/1998
Red Crossbill		WC22	PO		RP	05/24/1999
Red-breasted Nuthatch		WC22	PO		RP	06/30/1998
Rock Wren		WC22	PO		RP	06/30/1998
Spotted Towhee		WC22	PR	P	RP	05/24/1999

Name	Status	Block	B Code	Behav	Observer	Date
Turkey Vulture		WC22	PO		DR	06/23/1998
Upland Sandpiper		WC22	PO		BM	06/23/1998
Vesper Sparrow		WC22	PO		RP	05/24/1999
Violet-green Swallow		WC22	PO		RP	06/30/1998
Western Meadowlark		WC22	PO		RP	06/30/1998
Western Tanager		WC22	PO		RP	05/24/1999
White-breasted Nuthatch		WC22	CO	FL	RP	06/30/1998
White-winged Junco		WC22	PO		RP	06/30/1998
Yellow-breasted Chat		WC22	PO		RP	05/24/1999
American Crow		WC23	PO		DR	06/23/1998
American Kestrel		WC23	CO	ON	MJ	05/19/1999
Barn Swallow		WC23	PO		RP	06/26/1999
Black-billed Magpie		WC23	CO	FL	RP	06/24/1998
Black-capped Chickadee		WC23	CO	FL	RP	06/26/1999
Brewer's Blackbird		WC23	PO		RP	06/26/1999
Brown-headed Cowbird		WC23	PR	P	RP	06/26/1999
Chipping Sparrow		WC23	PO		RP	06/24/1998
Downy Woodpecker		WC23	PO		BM	07/22/1998
Eastern Bluebird		WC23	CO	ON	RP	06/26/1999
Field Sparrow		WC23	PO		RP	06/26/1999
Grasshopper Sparrow		WC23	PO		DR	06/23/1998
Hairy Woodpecker		WC23	PO		DR	06/23/1998
Killdeer		WC23	PO		RP	06/26/1999
Lewis' Woodpecker	*	WC23	PR	A	RP	06/24/1998
Merlin	*	WC23	PO		DR	06/23/1998
Mourning Dove		WC23	PO		RP	06/24/1998
Northern Flicker		WC23	PO		RP	06/24/1998
Red Crossbill		WC23	O	O	RP	06/24/1998
Red-breasted Nuthatch		WC23	PO		BM	07/22/1998
Red-tailed Hawk		WC23	O	O	RP	06/26/1999
Red-winged Blackbird		WC23	PR	A	RP	06/09/1998
Rock Wren		WC23	PO		RP	06/24/1998
Sharp-tailed Grouse		WC23	CO	DD	DR	06/23/1998
Sora		WC23	PO		J/D	06/22/1999
Spotted Towhee		WC23	PO		RP	06/24/1998
Upland Sandpiper		WC23	PO		RP	07/01/1998
Western Meadowlark		WC23	CO	FL	BM	07/22/1998
American Crow		WC24	CO	FL	RP	06/21/1998
Barn Swallow		WC24	CO	NE	RP	05/24/1998
Brewer's Blackbird		WC24	PO		RP	05/24/1998
Brown-headed Cowbird		WC24	PR	P	RP	05/24/1998
Chipping Sparrow		WC24	PR	P	RP	05/24/1998
Common Nighthawk		WC24	PO		RP	07/09/1998
Eastern Kingbird		WC24	PO		RP	05/25/1999
Field Sparrow		WC24	PO		RP	07/16/1999
Grasshopper Sparrow		WC24	PO		RP	05/24/1998
Lark Bunting		WC24	PO		RP	06/21/1998
Lark Sparrow		WC24	PO		RP	05/24/1998
Mallard		WC24	CO	NE	DR	05/04/1999
Merlin	*	WC24	O	O	RP	05/24/1998

Name	Status	Block	B Code	Behav	Observer	Date
Mourning Dove		WC24	PR	A	RP	05/30/1998
Sharp-tailed Grouse		WC24	PR	C	DR	05/04/1999
Spotted Towhee		WC24	PO		RP	05/24/1998
Upland Sandpiper		WC24	CO	FL	RP	07/16/1999
Vesper Sparrow		WC24	PO		RP	05/24/1998
Western Meadowlark		WC24	PR	T	RP	05/24/1998
Yellow-breasted Chat		WC24	PO		RP	07/16/1999
American Crow		WC25	CO	FL	RP	06/21/1998
American Kestrel		WC25	PR	C	RP	05/06/1999
American Robin		WC25	CO	FL	RP	07/16/1999
Audubon's Warbler		WC25	PO		RP	07/16/1999
Black-billed Magpie		WC25	PR	P	RP	05/06/1999
Black-capped Chickadee		WC25	PO		RP	06/21/1998
Brown-headed Cowbird		WC25	PO		RP	06/21/1998
Chipping Sparrow		WC25	CO	FL	RP	07/16/1999
Common Nighthawk		WC25	PO		RP	06/21/1998
Dusky Flycatcher		WC25	PO		RP	07/16/1999
Field Sparrow		WC25	PO		RP	06/21/1998
Grasshopper Sparrow		WC25	PO		RP	06/21/1998
Hairy Woodpecker		WC25	PO		RP	07/16/1999
Long-eared Owl	*	WC25	PR	A	RP	05/06/1999
Mountain Bluebird		WC25	PO		RP	06/21/1998
Mourning Dove		WC25	PR	S	RP	07/16/1999
Northern Flicker		WC25	PO		RP	06/21/1998
Ovenbird		WC25	PO		RP	06/21/1998
Plumbeous Vireo		WC25	PO		RP	07/16/1999
Red Crossbill		WC25	PO		RP	04/20/1999
Red-breasted Nuthatch		WC25	CO	NB	RP	04/20/1999
Rock Wren		WC25	PO		RP	06/21/1998
Spotted Towhee		WC25	PR	S	RP	07/16/1999
Townsend's Solitaire		WC25	PO		DR	05/05/1999
Violet-green Swallow		WC25	PO		RP	06/21/1998
Western Meadowlark		WC25	PO		RP	06/21/1998
Western Tanager		WC25	PO		RP	06/21/1998
Western Wood-Pewee		WC25	PO		RP	07/16/1999
White-breasted Nuthatch		WC25	PO		RP	04/20/1999
White-throated Swift		WC25	PO		RP	06/21/1998
White-winged Junco		WC25	PO		RP	07/16/1999
Yellow-breasted Chat		WC25	PO		RP	07/16/1999
American Crow		WC26	O	O	RP	07/24/1998
American Robin		WC26	PO		RP	07/16/1999
Audubon's Warbler		WC26	PO		RP	07/16/1999
Black-capped Chickadee		WC26	PO		RP	07/24/1998
Canyon Wren		WC26	PO		RP	07/16/1999
Chipping Sparrow		WC26	PO		RP	07/16/1999
Common Nighthawk		WC26	PO		RP	07/16/1999
Cordilleran Flycatcher		WC26	PR	T	RP	07/16/1999
Dusky Flycatcher		WC26	PO		RP	07/16/1999
Grasshopper Sparrow		WC26	PO		RP	07/24/1998
Hairy Woodpecker		WC26	PO		RP	07/16/1999

Name	Status	Block	B Code	Behav	Observer	Date
Plumbeous Vireo		WC26	PO		RP	07/16/1999
Red Crossbill		WC26	PO		RP	07/16/1999
Red-breasted Nuthatch		WC26	PO		RP	07/24/1998
Spotted Towhee		WC26	PO		RP	07/16/1999
Townsend's Solitaire		WC26	PO		RP	07/16/1999
Vesper Sparrow		WC26	PO		RP	07/24/1998
Western Tanager		WC26	PO		RP	07/16/1999
American Crow		WC27	PO		RP	04/18/1999
American Goldfinch		WC27	PO		RP	07/24/1998
American Robin		WC27	PO		RP	07/24/1998
Audubon's Warbler		WC27	PO		DR	06/11/1999
Black-capped Chickadee		WC27	PO		RP	07/24/1998
Chipping Sparrow		WC27	PO		RP	07/24/1998
Common Yellowthroat		WC27	PO		RP	07/24/1998
Cordilleran Flycatcher		WC27	PO		RP	07/24/1998
Downy Woodpecker		WC27	CO	ON	DR	06/18/1999
Eastern Bluebird		WC27	PR	P	DR	06/11/1999
Hairy Woodpecker		WC27	PO		RP	04/18/1999
House Wren		WC27	PO		RP	07/24/1998
Lazuli Bunting		WC27	PO		RP	07/24/1998
Mallard		WC27	PO		RP	04/18/1999
Mountain Bluebird		WC27	PO		RP	04/18/1999
Mourning Dove		WC27	PO		RP	07/24/1998
Northern Flicker		WC27	PO		RP	07/24/1998
Ovenbird		WC27	PO		RP	07/24/1998
Plumbeous Vireo		WC27	PO		RP	07/24/1998
Red Crossbill		WC27	CO	FL	RP	04/06/1999
Rock Wren		WC27	PO		DR	06/11/1999
Spotted Towhee		WC27	PO		RP	07/24/1998
Vesper Sparrow		WC27	CO	NE	DR	06/11/1999
Violet-green Swallow		WC27	PO		RP	07/24/1998
Western Tanager		WC27	PO		RP	07/24/1998
Western Wood-Pewee		WC27	PO		RP	07/24/1998
White-breasted Nuthatch		WC27	PO		RP	07/24/1998
White-throated Swift		WC27	PO		RP	07/24/1998
White-winged Junco		WC27	CO	NE	DR	06/11/1999
Wild Turkey		WC27	PO		RP	04/18/1999
American Crow		WC28	O	O	DR	06/11/1999
American Goldfinch		WC28	PO		DR	06/04/1999
American Robin		WC28	PO		DR	06/29/1998
Black-backed Woodpecker	*	WC28	PO		DR	06/29/1998
Black-capped Chickadee		WC28	PO		BM	05/22/1998
Black-headed Grosbeak		WC28	PO		DR	06/29/1998
Canyon Wren		WC28	CO	ON	J/D	06/30/1999
Cedar Waxwing		WC28	PO		DR	06/04/1999
Common Nighthawk		WC28	CO	NE	DR	06/29/1998
Common Poorwill	*	WC28	CO	NY	J/D	07/08/1999
Common Yellowthroat		WC28	PO		DR	06/29/1998
Cooper's Hawk	*	WC28	PO		DR	06/29/1998
Cordilleran Flycatcher		WC28	PO		DR	06/29/1998

Name	Status	Block	B Code	Behav	Observer	Date
Dusky Flycatcher		WC28	PO		DR	06/29/1998
Great Horned Owl		WC28	CO	NY	BM	05/22/1998
Hairy Woodpecker		WC28	PO		BM	05/22/1998
House Wren		WC28	CO	CF	BM	06/29/1998
Indigo Bunting		WC28	PO		DR	06/29/1998
Lazuli Bunting		WC28	PO		DR	06/29/1998
Mountain Bluebird		WC28	CO	CN	BST	06/18/1999
Mourning Dove		WC28	PO		DR	06/11/1999
Northern Goshawk	*	WC28	PR	A	J/D	07/07/1999
Ovenbird		WC28	PO		DR	06/29/1998
Pine Siskin		WC28	CO	CN	BM	06/29/1998
Plumbeous Vireo		WC28	PO		DR	06/29/1998
Prairie Falcon	*	WC28	CO	NY	BM	06/29/1998
Red Crossbill		WC28	PO		RP	04/06/1999
Red-breasted Nuthatch		WC28	CO	NY	DR	07/08/1999
Rock Wren		WC28	PO		DR	06/29/1998
Spotted Towhee		WC28	PO		DR	06/29/1998
Turkey Vulture		WC28	CO	NY	RP	08/12/1999
Violet-green Swallow		WC28	CO	NY	BM	06/29/1998
Western Tanager		WC28	PO		DR	06/29/1998
Western Wood-Pewee		WC28	CO	CN	BST	06/18/1999
White-breasted Nuthatch		WC28	CO	CF	BST	06/18/1999
White-throated Swift		WC28	PO		DR	06/29/1998
Wild Turkey		WC28	PO		RP	04/06/1999
Yellow Warbler		WC28	PO		DR	06/29/1998
Yellow-breasted Chat		WC28	PO		DR	06/29/1998
American Crow		WC29	PO		BM	06/05/1998
American Goldfinch		WC29	CO	NY	RP	07/23/1999
American Redstart		WC29	CO	FY	RP	07/15/1999
American Robin		WC29	CO	FL	DR	06/16/1998
Audubon's Warbler		WC29	PO		DR	06/16/1998
Barn Swallow		WC29	PO		RP	06/10/1999
Belted Kingfisher		WC29	PR	P	RP	07/15/1999
Black-capped Chickadee		WC29	PO		DR	06/16/1998
Black-headed Grosbeak		WC29	PO		DR	06/16/1998
Brown-headed Cowbird		WC29	PO		DR	06/16/1998
Cedar Waxwing		WC29	PO		RP	06/14/1999
Chipping Sparrow		WC29	CO	NE	BM	06/05/1998
Clark's Nutcracker	? *	WC29	O	O	DR	06/16/1998
Cliff Swallow		WC29	PO		RP	07/30/1998
Common Nighthawk		WC29	CO	NE	DR	06/29/1998
Common Poorwill	*	WC29	PO		DR	07/12/1998
Common Yellowthroat		WC29	CO	FY	RP	07/15/1999
Cooper's Hawk	? *	WC29	PO		DR	06/16/1998
Cordilleran Flycatcher		WC29	PR	T	RP	06/02/1998
Downy Woodpecker		WC29	PR	P	DR	06/02/1999
Dusky Flycatcher		WC29	PO		DR	06/16/1998
Golden Eagle		WC29	CO	NY	BM	05/08/1999
Gray Catbird		WC29	PR	S	DR	07/02/1999
Great Horned Owl		WC29	O	O	RP	05/15/1999

Name	Status	Block	B Code	Behav	Observer	Date
Hairy Woodpecker		WC29	PO		RP	04/17/1999
House Wren		WC29	PO		DR	06/25/1998
Indigo Bunting		WC29	PR	S	RP	07/15/1999
Lark Sparrow		WC29	PO		DR	06/16/1998
Lazuli Bunting		WC29	PO		RP	07/24/1998
Least Flycatcher	?	WC29	PR	S	RP	06/14/1999
Mallard		WC29	CO	PY	DR	06/29/1998
Mourning Dove		WC29	PO		RP	05/04/1999
Northern Saw-whet Owl	*	WC29	PO		RP	04/19/1999
Ovenbird		WC29	PO		RP	06/16/1998
Pine Siskin		WC29	PO		RP	06/16/1998
Plumbeous Vireo		WC29	CO	NB	J/D	06/03/1999
Red Crossbill		WC29	CO	FY	RP	06/14/1999
Red-breasted Nuthatch		WC29	PO		RP	06/16/1998
Red-eyed Vireo		WC29	PO		RP	06/14/1999
Red-winged Blackbird		WC29	PR	A	DR	06/29/1999
Spotted Towhee		WC29	CO	FL	RP	06/16/1998
Townsend's Solitaire		WC29	PO		RP	04/17/1999
Turkey Vulture		WC29	O	O	DR	06/09/1999
Violet-green Swallow		WC29	PO		RP	06/02/1998
Warbling Vireo		WC29	PO		DR	06/25/1998
Western Meadowlark		WC29	PO		RP	06/02/1998
Western Tanager		WC29	PO		DR	06/16/1998
Western Wood-Pewee		WC29	PO		DR	06/16/1998
White-breasted Nuthatch		WC29	PO		DR	06/16/1998
White-winged Junco		WC29	PO		DR	06/16/1998
Yellow Warbler		WC29	PR	T	RP	05/18/1999
Yellow-breasted Chat		WC29	CO	CF	RP	07/15/1999
American Goldfinch		WC30	PR	P	BM	07/22/1998
American Kestrel		WC30	CO	FY	BM	07/19/1998
American Redstart		WC30	CO	FL	RP	07/15/1999
American Robin		WC30	CO	FY	BM	06/19/1998
Audubon's Warbler		WC30	PO		BM	06/10/1998
Barn Swallow		WC30	CO	NY	BM	07/22/1998
Belted Kingfisher		WC30	PR	A	BM	07/22/1998
Black-capped Chickadee		WC30	CO	CF	DR	06/25/1998
Black-headed Grosbeak		WC30	PR	A	DR	06/29/1999
Brewer's Blackbird		WC30	CO	FS	RP	06/16/1998
Brown-headed Cowbird		WC30	PO		RP	06/16/1998
Bullock's Oriole		WC30	PR	P	BM	06/25/1998
Cedar Waxwing		WC30	PR	C	RP	07/23/1999
Chestnut-sided Warbler	?	WC30	PO		RP	07/23/1999
Chipping Sparrow		WC30	CO	NY	BM	06/13/1998
Cliff Swallow		WC30	CO	ON	DR	06/29/1999
Common Nighthawk		WC30	PO		BM	06/08/1998
Common Poorwill	*	WC30	PO		RP	05/06/1999
Common Yellowthroat		WC30	PR	P	RP	06/14/1999
Cordilleran Flycatcher		WC30	PO		RP	06/02/1998
Downy Woodpecker		WC30	PO		RP	07/23/1999
Dusky Flycatcher		WC30	CO	NB	RP	06/14/1999

Name	Status	Block	E Code	Behav	Observer	Date
Eastern Bluebird		WC30	PO		BM	06/06/1998
Eastern Kingbird		WC30	CO	NB	RP	06/16/1998
Golden Eagle		WC30	O	O	BM	06/10/1998
Grasshopper Sparrow		WC30	PR	T	BM	06/09/1998
House Wren		WC30	CO	ON	BM	07/22/1998
Lark Sparrow	?	WC30	PO		BM	06/19/1998
Lewis' Woodpecker	*	WC30	PO		BM	07/09/1998
Mourning Dove		WC30	PO		DR	06/25/1998
Northern Flicker		WC30	CO	ON	BM	06/19/1998
Northern Saw-whet Owl	*	WC30	PO		DR	07/12/1998
Pine Siskin		WC30	PR	S	DR	06/25/1998
Plumbeous Vireo		WC30	PO		RP	06/16/1998
Red Crossbill		WC30	PO	O	BM	04/17/1999
Red-breasted Nuthatch		WC30	PO		BM	06/10/1998
Red-eyed Vireo		WC30	CO	CF	RP	07/23/1999
Red-winged Blackbird		WC30	PO		RP	06/14/1999
Sharp-shinned Hawk	*	WC30	O	O	BM	07/19/1998
Song Sparrow	?	WC30	PO		RP	06/14/1999
Spotted Towhee		WC30	CO	FL	RP	07/23/1999
Townsend's Solitaire		WC30	PO		RP	06/14/1999
Turkey Vulture	adj	WC30	CO	ON	BK	06/10/1998
Upland Sandpiper		WC30	PO		BM	07/09/1998
Vesper Sparrow		WC30	PO		RP	06/14/1999
Warbling Vireo		WC30	PR	P	RP	06/14/1999
Western Meadowlark		WC30	CO	CF	BM	06/21/1998
Western Tanager		WC30	PR	T	RP	06/16/1998
Western Wood-Pewee		WC30	PO		BM	06/10/1998
White-breasted Nuthatch		WC30	PO		RP	06/02/1998
Yellow Warbler		WC30	CO	FY	RP	07/23/1999
Yellow-breasted Chat		WC30	CO	CF	RP	07/23/1999
American Crow		WC31	O	O	DB	06/28/1998
American Robin		WC31	PO		DB	06/28/1998
Brewer's Blackbird		WC31	CO	NE	RP	06/16/1999
Brown Thrasher		WC31	PO		RP	06/23/1999
Brown-headed Cowbird		WC31	PR	P	RP	05/12/1999
Common Nighthawk		WC31	PO		RP	06/08/1999
Common Yellowthroat		WC31	PO		DB	06/28/1998
Horned Lark		WC31	PO		BM	04/19/1999
Killdeer		WC31	PO		BM	04/19/1999
Lark Bunting	?	WC31	PO		RP	06/16/1999
Northern Flicker		WC31	PO		RP	04/06/1999
Sharp-tailed Grouse		WC31	PR	C	RP	03/31/1999
Upland Sandpiper		WC31	CO	PY	RP	06/23/1998
Vesper Sparrow		WC31	PO		RP	06/16/1999
Western Meadowlark		WC31	PO		DB	06/28/1998
American Crow		WC32	PR	A	RP	05/27/1999
American Goldfinch		WC32	PO		DB	06/29/1998
American Robin		WC32	PO		DB	07/01/1998
Audubon's Warbler		WC32	PO		RP	05/27/1999
Black-billed Magpie	adj	WC32	PO		RP	05/27/1999

Name	Status	Block	E Code	Behav	Observer	Date
Black-headed Grosbeak		WC32	PO		RP	05/27/1999
Brown-headed Cowbird		WC32	PO		RP	05/27/1999
Canyon Wren		WC32	PO		RP	05/27/1999
Chipping Sparrow		WC32	PR	T	RP	05/27/1999
Cliff Swallow		WC32	PO		RP	05/27/1999
Common Nighthawk		WC32	PO		DB	07/01/1998
Common Yellowthroat		WC32	PO		RP	05/27/1999
Dusky Flycatcher		WC32	PR	T	RP	05/27/1999
Grasshopper Sparrow		WC32	PO		RP	05/27/1999
Long-eared Owl	*	WC32	PO		RP	04/18/1999
Mountain Bluebird		WC32	PO		DB	07/01/1998
Northern Flicker		WC32	PO		RP	05/27/1999
Ovenbird		WC32	PO		RP	05/27/1999
Red-breasted Nuthatch		WC32	PO		RP	05/27/1999
Spotted Towhee		WC32	CO	CF	DB	06/29/1998
Upland Sandpiper		WC32	PO		RP	05/27/1999
Vesper Sparrow		WC32	PO		DB	07/01/1998
Violet-green Swallow		WC32	PO		RP	05/27/1999
Warbling Vireo		WC32	PO		RP	05/27/1999
Western Meadowlark		WC32	PO		DB	06/29/1998
Western Tanager		WC32	PR	T	RP	05/27/1999
White-throated Swift	adj	WC32	PO		RP	05/27/1999
Yellow Warbler		WC32	PO		RP	05/27/1999
Yellow-breasted Chat		WC32	PO		DB	06/29/1998
American Crow		WC33	PO		RP	06/22/1998
American Goldfinch		WC33	PO		RP	06/22/1998
American Kestrel		WC33	PR	T	RP	06/22/1998
American Robin		WC33	PO		RP	06/22/1998
Black-billed Magpie		WC33	PO		RP	06/22/1998
Black-capped Chickadee		WC33	PO		RP	06/22/1998
Black-headed Grosbeak		WC33	PR	S	RP	07/16/1999
Brown-headed Cowbird		WC33	PR	P	RP	06/22/1998
Chipping Sparrow		WC33	PR	P	RP	06/22/1998
Common Nighthawk		WC33	PO		RP	06/22/1998
Dusky Flycatcher		WC33	PO		RP	07/16/1999
Field Sparrow		WC33	PO		RP	06/22/1998
Grasshopper Sparrow		WC33	PO		RP	06/22/1998
House Wren		WC33	PO		RP	07/16/1999
Mountain Bluebird		WC33	PR	P	RP	05/21/1999
Mourning Dove		WC33	PO		RP	06/22/1998
Northern Flicker		WC33	PO		RP	06/22/1998
Ovenbird		WC33	PR	S	RP	07/16/1999
Pinyon Jay		WC33	PO		RP	05/21/1999
Red Crossbill		WC33	O	O	RP	06/22/1998
Red-breasted Nuthatch		WC33	PO		RP	06/22/1998
Red-tailed Hawk	adj	WC33	PO		RP	05/21/1999
Rock Dove	#	WC33	PO		RP	05/21/1999
Rock Wren		WC33	PR	P	RP	06/22/1998
Spotted Towhee		WC33	PO		RP	06/22/1998
Turkey Vulture		WC33	O	O	RP	06/22/1998

Name	Status	Block	B Code	Behav	Observer	Date
Upland Sandpiper		WC33	PO		RP	05/21/1999
Vesper Sparrow		WC33	PO		RP	05/21/1999
Violet-green Swallow		WC33	PO		RP	07/16/1999
Western Meadowlark		WC33	PO		RP	06/22/1998
White-breasted Nuthatch		WC33	PO		RP	05/21/1999
White-throated Swift		WC33	PO		H/B	06/12/1999
Yellow-breasted Chat		WC33	PO		RP	06/22/1998
American Crow		WC34	O	O	RP	05/16/1999
American Kestrel		WC34	PR	P	RP	05/16/1999
American Robin		WC34	PO		RP	07/16/1999
Black-billed Magpie		WC34	CO	ON	RP	04/19/1999
Brewer's Blackbird		WC34	PR	P	RP	05/24/1998
Burrowing Owl	*	WC34	CO	FL	?	06/22/1998
Golden Eagle		WC34	O	O	J/D	06/14/1999
Grasshopper Sparrow		WC34	CO	NE	J/D	06/14/1999
Killdeer		WC34	CO	PY	H/B	05/29/1999
Lark Bunting		WC34	PO		DR	06/30/1998
Mallard		WC34	PO		RP	05/16/1999
Mourning Dove		WC34	PO		RP	05/24/1998
Red-winged Blackbird		WC34	PR	P	RP	05/16/1999
Sharp-tailed Grouse		WC34	PO		RP	05/30/1998
Spotted Towhee		WC34	PO		RP	07/16/1999
Turkey Vulture		WC34	O	O	H/B	05/29/1999
Upland Sandpiper		WC34	PO		RP	05/24/1998
Vesper Sparrow		WC34	PO		RP	05/16/1999
Western Kingbird		WC34	PO		H/B	05/29/1999
Western Meadowlark		WC34	PR	T	RP	05/24/1998
American Crow		WC35	PO		RP	07/12/1999
American Kestrel		WC35	CO	FL	RP	07/12/1999
Belted Kingfisher		WC35	PO		RP	07/12/1999
Black-billed Magpie		WC35	CO	FL	RP	06/24/1998
Black-capped Chickadee		WC35	PO		RP	06/24/1998
Brewer's Blackbird		WC35	CO	CF	RP	07/12/1999
Common Nighthawk		WC35	PR	A	RP	07/12/1999
Common Yellowthroat		WC35	PO		RP	06/24/1998
Grasshopper Sparrow		WC35	PO		RP	06/22/1998
Lark Sparrow		WC35	PR	P	RP	06/22/1998
Lewis' Woodpecker	*	WC35	CO	ON	DR	06/23/1998
Northern Flicker		WC35	PO		DR	06/23/1998
Red-winged Blackbird		WC35	PO		RP	07/12/1999
Rock Wren		WC35	PO		RP	06/22/1998
Sharp-tailed Grouse		WC35	PO		DR	06/23/1998
Spotted Towhee		WC35	PO		RP	06/24/1998
Upland Sandpiper		WC35	PO		RP	07/12/1999
Western Meadowlark		WC35	PO		RP	06/22/1998
American Crow		WC36	PR	P	RP	05/27/1999
American Goldfinch		WC36	PO		RP	06/16/1998
American Kestrel		WC36	PO		RP	05/27/1999
American Redstart		WC36	PO		RP	05/27/1999
American Robin		WC36	CO	FL	RP	07/06/1999

Name	Status	Block	B Code	Behav	Observer	Date
Audubon's Warbler		WC36	PO		RP	05/27/1999
Belted Kingfisher		WC36	PO		J/D	07/23/1999
Black-billed Magpie		WC36	PO		RP	05/26/1998
Black-capped Chickadee		WC36	PO		RP	05/27/1999
Black-headed Grosbeak		WC36	PR	S	RP	07/06/1999
Brewer's Blackbird		WC36	PO		RP	05/27/1999
Brown-headed Cowbird		WC36	PO		RP	05/27/1999
Chipping Sparrow		WC36	PO		RP	05/27/1999
Cliff Swallow		WC36	CO	UN	RP	06/16/1998
Common Yellowthroat		WC36	PR	S	RP	07/06/1999
Cordilleran Flycatcher		WC36	PO		RP	07/06/1999
Dusky Flycatcher		WC36	PR	S	RP	07/06/1999
Field Sparrow		WC36	PR	S	RP	07/06/1999
Grasshopper Sparrow		WC36	PO		DR	07/02/1998
House Wren		WC36	PO		RP	06/16/1998
Lark Sparrow		WC36	PO		RP	06/16/1998
Lazuli Bunting		WC36	PO		BST	06/16/1999
Lewis' Woodpecker	*	WC36	PO		RP	06/16/1998
Mountain Bluebird		WC36	PR	P	RP	05/27/1999
Mourning Dove		WC36	CO	NE	RP	05/27/1999
Northern Flicker		WC36	PO		RP	06/16/1998
Ovenbird		WC36	PR	S	RP	07/06/1999
Pine Siskin		WC36	PO		RP	05/27/1999
Plumbeous Vireo		WC36	PO		RP	05/27/1999
Red Crossbill		WC36	PO		RP	04/12/1999
Red-headed Woodpecker		WC36	PO		RP	06/16/1998
Red-tailed Hawk		WC36	PO		BST	06/16/1998
Red-winged Blackbird		WC36	PO		DR	07/02/1998
Rock Wren		WC36	PR	S	RP	07/06/1999
Spotted Towhee		WC36	PO		RP	06/16/1998
Townsend's Solitaire		WC36	PO		RP	05/27/1999
Turkey Vulture		WC36	PO		RP	05/27/1999
Vesper Sparrow		WC36	PO		RP	06/16/1998
Violet-green Swallow		WC36	PO		RP	05/27/1999
Warbling Vireo		WC36	PO		BM	06/22/1998
Western Meadowlark		WC36	PO		RP	04/12/1999
Western Tanager		WC36	PO		RP	06/16/1998
Western Wood-Pewee		WC36	PR	S	RP	07/06/1999
White-breasted Nuthatch		WC36	PO		RP	05/27/1999
Wild Turkey		WC36	PO		RP	04/12/1999
Yellow Warbler		WC36	PR	S	RP	07/06/1999
Yellow-breasted Chat		WC36	PR	S	RP	07/06/1999
American Crow		WC37	PO		RP	06/16/1998
American Goldfinch		WC37	PO		RP	06/11/1998
American Robin		WC37	CO	FY	RP	06/11/1998
Audubon's Warbler		WC37	CO	FY	JT	06/16/1998
Barn Swallow		WC37	CO	NY	MD	06/18/1998
Black-billed Magpie		WC37	PO		RP	06/16/1998
Black-capped Chickadee		WC37	PR	S	BBB	05/15/1999
Black-headed Grosbeak		WC37	PO		RP	06/16/1998

Name	Status	Block	B Code	Behav	Observer	Date
Brewer's Blackbird		WC37	PR	C	RP	06/16/1998
Brown Thrasher		WC37	PR	N	BBB	05/15/1999
Brown-headed Cowbird		WC37	CO	FY	BBB	07/24/1999
Bullock's Oriole		WC37	PO		J/D	?
Cedar Waxwing		WC37	CO	NY	MD	07/15/1998
Chestnut-sided Warbler	?	WC37	PO		ML	06/18/1998
Chipping Sparrow		WC37	CO	FY	BBB	07/24/1999
Cliff Swallow		WC37	CO	ON	BBB	06/16/1998
Common Grackle		WC37	PR	C	BBB	04/18/1999
Common Nighthawk		WC37	PO		RP	06/08/1999
Common Poorwill	*	WC37	PO		BBB	07/23/1999
Downy Woodpecker		WC37	PO		RP	06/11/1998
Eastern Kingbird		WC37	PO		RP	06/16/1998
Field Sparrow		WC37	PO		RP	05/25/1999
Gray Catbird		WC37	PO		RP	06/16/1998
Great Horned Owl		WC37	CO	NY	BK	05/26/1999
House Wren		WC37	CO	NY	BBB	05/15/1999
Lark Bunting	?	WC37	PO		ML	06/09/1999
Lark Sparrow		WC37	CO	DD	RP	05/25/1999
Mallard		WC37	PR	P	RP	06/16/1998
Mountain Bluebird		WC37	PR	P	MD	07/01/1998
Mourning Dove		WC37	PR	S	BBB	04/18/1999
Northern Flicker		WC37	CO	ON	BBB	05/15/1999
Northern Saw-whet Owl	*	WC37	PO		J/D	06/02/1999
Pine Siskin		WC37	PO		RP	06/16/1998
Red Crossbill		WC37	CO	FY	BBB	04/08/1999
Red-breasted Nuthatch		WC37	PO		BBB	04/08/1999
Rock Dove	#	WC37	PO		RP	06/16/1998
Say's Phoebe	?	WC37	PR	T	BBB	05/12/1999
Spotted Towhee		WC37	CO	CF	RP	06/16/1998
Upland Sandpiper		WC37	PO		RP	05/25/1999
Vesper Sparrow		WC37	PO		RP	06/16/1998
Violet-green Swallow		WC37	PO		RP	06/16/1998
Warbling Vireo		WC37	PO		RP	06/16/1998
Western Meadowlark		WC37	CO	NE	DR	05/24/1999
Western Wood-Pewee		WC37	CO	ON	DB	06/16/1999
Wild Turkey		WC37	PO		BBB	04/18/1999
Yellow Warbler		WC37	PR	S	BBB	05/15/1999
Yellow-breasted Chat		WC37	PR	S	BBB	05/15/1999
American Crow		WC38	PO		RP	06/23/1998
American Kestrel		WC38	CO	NY	BM	07/06/1998
American Robin		WC38	PO		RP	06/23/1998
Audubon's Warbler		WC38	PR	T	RP	06/23/1998
Barn Swallow		WC38	PO		RP	06/23/1998
Black-capped Chickadee		WC38	PO		RP	06/23/1998
Brown-headed Cowbird		WC38	PO		RP	05/25/1999
Chipping Sparrow		WC38	PR	P	RP	06/23/1998
Common Nighthawk		WC38	PO		DR	06/24/1998
Common Poorwill	*	WC38	PO		RP	05/16/1999
Cooper's Hawk	*	WC38	PR	A	BM	05/25/1999

Name	Status	Block	B Code	Bchay	Observer	Date
Downy Woodpecker		WC38	PO		RP	06/23/1998
Eastern Bluebird		WC38	PO		RP	05/25/1999
Eastern Kingbird		WC38	PO		BBS98	06/15/1998
Grasshopper Sparrow		WC38	PO		RP	06/23/1998
Gray Jay		WC38	CO	CF	BM	05/25/1999
Hairy Woodpecker		WC38	CO	NY	RP	05/25/1999
House Wren		WC38	PO		RP	05/25/1999
Lewis' Woodpecker	*	WC38	PO		BM	05/25/1999
Long-eared Owl	*	WC38	CO	NY	RP	06/23/1998
Mountain Bluebird		WC38	CO	CN	BM	06/10/1998
Northern Flicker		WC38	PO		RP	06/23/1998
Pine Siskin		WC38	PO		RP	05/25/1999
Plumbeous Vireo		WC38	PO		RP	06/23/1998
Red Crossbill		WC38	PO		RP	05/25/1999
Red-breasted Nuthatch		WC38	CO	FY	RP	06/23/1998
Red-headed Woodpecker		WC38	PO		RP	06/23/1998
Red-tailed Hawk		WC38	O	O	RP	05/25/1999
Spotted Towhee		WC38	PO		RP	06/23/1998
Townsend's Solitaire		WC38	PO		RP	06/23/1998
Turkey Vulture		WC38	O	O	RP	06/26/1998
Upland Sandpiper		WC38	PO		RP	05/25/1999
Vesper Sparrow		WC38	PO		RP	06/23/1998
Western Meadowlark		WC38	PO		RP	06/23/1998
Western Tanager		WC38	PR	P	RP	06/23/1998
Western Wood-Pewee		WC38	PO		RP	06/23/1998
White-breasted Nuthatch		WC38	PO		RP	06/23/1998
White-winged Junco		WC38	CO	FL	RP	06/26/1998
Wild Turkey		WC38	CO	PY	RP	06/23/1998
American Crow		WC39	PO		JB	05/18/1999
American Goldfinch		WC39	PO		RP	05/31/1998
American Kestrel		WC39	PO		RP	05/31/1998
American Robin		WC39	PR	T	JB	05/18/1999
Audubon's Warbler		WC39	PO		RP	05/31/1998
Black-capped Chickadee		WC39	CO	NB	JB	05/29/1999
Black-headed Grosbeak		WC39	PO		BST	06/23/1999
Brown-headed Cowbird		WC39	PO		RP	05/31/1998
Chipping Sparrow		WC39	PR	P	RP	05/31/1998
Cliff Swallow		WC39	CO	ON	RP	05/31/1998
Common Nighthawk		WC39	PO		RP	06/08/1999
Common Poorwill	*	WC39	PO		J/D	05/28/1999
Dusky Flycatcher		WC39	PO		RP	05/31/1998
Eastern Bluebird		WC39	PR	P	JB	05/18/1999
Golden Eagle		WC39	O	O	J/D	05/31/1999
Grasshopper Sparrow		WC39	PO		BM	05/28/1998
Hairy Woodpecker		WC39	PO		RP	04/13/1999
House Wren		WC39	CO	ON	RP	05/31/1998
Mountain Bluebird		WC39	CO	ON	JB	05/29/1999
Mourning Dove		WC39	PO		RP	05/31/1998
Northern Flicker		WC39	CO	NY	JB	05/29/1999
Ovenbird	adj	WC39	PO		RP	05/31/1998

Name	Status	Block	B Code	Behav	Observer	Date
Plumbeous Vireo		WC39	CO	NB	RP	05/31/1998
Prairie Falcon	*	WC39	CO	NY	BM	07/01/1998
Red Crossbill		WC39	CO	FL	JB	05/18/1999
Red-breasted Nuthatch		WC39	PR	B	RP	04/13/1999
Red-headed Woodpecker		WC39	PO		RP	05/31/1998
Red-tailed Hawk		WC39	O	O	RP	05/31/1998
Rock Dove	#	WC39	PR	P	JB	05/18/1999
Spotted Towhee		WC39	PR	P	JB	05/18/1999
Townsend's Solitaire		WC39	PO		J/D	05/23/1999
Turkey Vulture		WC39	O	O	RP	05/31/1998
Vesper Sparrow		WC39	PR	P	JB	05/18/1999
Violet-green Swallow		WC39	CO	ON	RP	05/31/1998
Warbling Vireo		WC39	PO		RP	05/31/1998
Western Meadowlark		WC39	PO		RP	05/31/1998
Western Tanager		WC39	PO		RP	05/31/1998
Western Wood-Pewee		WC39	PO		RP	05/31/1998
White-breasted Nuthatch		WC39	PR	N	JB	05/29/1999
White-throated Swift		WC39	CO	ON	BM	05/31/1998
White-winged Junco		WC39	PO		RP	05/31/1998
Wild Turkey		WC39	PO		RP	03/31/1999
Yellow Warbler		WC39	PO		RP	05/31/1998
American Crow		WC40	PO		RP	06/15/1998
American Kestrel		WC40	CO	FL	MC	07/11/1999
American Robin	?	WC40	CO	CN	MC	07/11/1999
Black-capped Chickadee		WC40	PR	P	RP	05/31/1998
Brewer's Blackbird		WC40	CO	CF	RP	06/08/1999
Chipping Sparrow		WC40	PO		RP	06/08/1999
Common Nighthawk		WC40	PO		RP	06/08/1999
Eastern Kingbird		WC40	PR	C	BM	06/08/1998
Golden Eagle		WC40	O	O	RP	06/16/1998
Grasshopper Sparrow		WC40	PO		RP	05/24/1998
Lark Sparrow		WC40	PO		MC	07/11/1999
Northern Flicker		WC40	PO		RP	06/08/1999
Red-headed Woodpecker		WC40	PO		MC	07/11/1999
Red-winged Blackbird		WC40	CO	CN	RP	05/24/1998
Sharp-tailed Grouse		WC40	PR	C	RP	03/31/1999
Spotted Towhee	?	WC40	PR	P	MC	06/09/1999
Turkey Vulture		WC40	O	O	BM	06/08/1998
Upland Sandpiper		WC40	PR	P	RP	05/31/1998
Vesper Sparrow		WC40	PO		RP	05/24/1998
Western Meadowlark		WC40	CO	FL	MC	07/11/1999
Western Tanager	?	WC40	PR	P	MC	07/11/1999
American Avocet	?	WC41	PO		BM	06/22/1998
American Crow		WC41	CO	FY	RP	06/28/1999
Barn Swallow		WC41	O	O	RP	05/26/1998
Black-billed Magpie		WC41	PR	A	DR	05/15/1999
Blue-winged Teal	?	WC41	PR	P	RP	05/25/1999
Brewer's Blackbird		WC41	CO	FY	RP	07/05/1999
Brown-headed Cowbird		WC41	PO		RP	05/26/1998
Chipping Sparrow		WC41	PO		RP	05/26/1998

Name	Status	Block	B Code	Behav	Observer	Date
Cinnamon Teal	?	WC41	PR	P	RP	05/25/1999
Gadwall	?	WC41	PR	P	RP	05/25/1999
Golden Eagle		WC41	O	O	RP	06/16/1998
Grasshopper Sparrow		WC41	PO		RP	05/26/1998
Horned Lark		WC41	PO		RP	05/26/1998
Killdeer		WC41	PO		RP	07/05/1999
Mallard		WC41	CO	PY	RP	06/04/1999
Northern Flicker		WC41	PO		RP	06/28/1999
Northern Shoveler	?	WC41	PR	P	RP	05/29/1998
Red-tailed Hawk		WC41	O	O	RP	05/26/1998
Red-winged Blackbird		WC41	PO		BBS99	06/14/1999
Sora		WC41	CO	NY	DR	08/12/1999
Spotted Sandpiper	?	WC41	PO		MC	05/09/1999
Spotted Towhee		WC41	PO		RP	05/26/1998
Upland Sandpiper		WC41	PO		RP	05/26/1998
Vesper Sparrow		WC41	PO		RP	05/26/1998
Western Kingbird		WC41	PO		RP	05/31/1998
Western Meadowlark		WC41	PO		RP	05/26/1998
Wilson's Phalarope	?	WC41	PO		DR	05/13/1999
American Crow		WC42	CO	FY	RP	06/28/1999
American Kestrel		WC42	CO	CF	RP	04/12/1999
American Robin		WC42	PO		RP	04/12/1999
Audubon's Warbler		WC42	PO		RP	06/28/1999
Black-billed Magpie		WC42	PO		RP	06/28/1999
Black-capped Chickadee		WC42	PO		RP	04/12/1999
Black-headed Grosbeak	adj	WC42	PO		RP	06/28/1999
Chipping Sparrow		WC42	PO		RP	06/28/1999
Common Nighthawk		WC42	PO		BM	06/15/1998
Eastern Bluebird		WC42	PR	P	RP	04/12/1999
European Starling	#	WC42	PO		RP	04/12/1999
Gray Jay		WC42	PR	P	BM	06/22/1998
Hairy Woodpecker		WC42	PR	A	RP	06/28/1999
House Wren		WC42	PO		RP	05/26/1998
Lark Sparrow		WC42	PO		RP	06/28/1999
Long-eared Owl	*	WC42	PR	A	RP	04/12/1999
Mourning Dove		WC42	PO		RP	05/26/1998
Northern Flicker		WC42	PO		RP	05/26/1998
Plumbeous Vireo		WC42	PO		RP	06/28/1999
Red Crossbill		WC42	PO		RP	04/12/1999
Red-breasted Nuthatch		WC42	PR	B	RP	04/12/1999
Red-headed Woodpecker		WC42	CO	CF	BM	06/22/1998
Rock Wren	adj	WC42	PO		RP	06/28/1999
Spotted Towhee		WC42	PO		RP	05/26/1998
Vesper Sparrow		WC42	PO		RP	06/28/1999
Western Meadowlark		WC42	PO		RP	04/12/1999
Western Tanager		WC42	PO		BM	06/22/1998
Western Wood-Pewee		WC42	PO		BM	06/22/1998
White-breasted Nuthatch		WC42	PO		RP	05/26/1998
White-winged Junco		WC42	CO	FL	RP	06/28/1999
Wild Turkey		WC42	PO		RP	04/12/1999

Name	Status	Block	B Code	Behav	Observer	Date
American Crow		WC43	PR	P	RP	05/29/1998
American Goldfinch		WC43	PR	P	RP	06/30/1999
American Kestrel		WC43	PO		BM	06/09/1998
American Robin		WC43	PO		RP	05/29/1998
Audubon's Warbler		WC43	PO		RP	05/29/1998
Black-billed Magpie		WC43	CO	NE	J/D	04/19/1999
Black-capped Chickadee		WC43	CO	FY	RP	06/30/1999
Brewer's Blackbird		WC43	PR	P	BM	06/22/1998
Brown-headed Cowbird		WC43	PO		RP	05/29/1998
Bullock's Oriole		WC43	PO		BM	06/22/1998
Cedar Waxwing		WC43	PO		BM	06/22/1998
Chipping Sparrow		WC43	CO	FY	RP	06/30/1999
Common Nighthawk		WC43	PO		RP	06/08/1999
Common Poorwill	*	WC43	PO		RP	05/16/1999
Eastern Bluebird		WC43	PR	P	RP	06/30/1999
Grasshopper Sparrow		WC43	PO		RP	05/29/1998
Great Horned Owl		WC43	PR	P	RP	05/02/1999
Hairy Woodpecker		WC43	PR	P	RP	06/30/1999
House Wren		WC43	CO	NY	BM	06/22/1998
Lark Sparrow		WC43	PR	C	RP	06/30/1999
Mountain Bluebird		WC43	CO	ON	RP	05/29/1998
Mourning Dove		WC43	PO		BM	06/22/1998
Northern Flicker		WC43	PO		BM	06/22/1998
Pine Siskin		WC43	CO	NB	RP	05/29/1998
Plumbeous Vireo		WC43	PO		RP	05/29/1998
Red Crossbill		WC43	CO	CN	RP	03/30/1999
Red-breasted Nuthatch		WC43	PO		RP	05/29/1998
Red-tailed Hawk		WC43	CO	NY	BM	06/22/1998
Spotted Towhee		WC43	CO	CF	RP	06/30/1999
Townsend's Solitaire		WC43	PO		RP	07/05/1999
Turkey Vulture		WC43	O	O	RP	06/30/1999
Vesper Sparrow		WC43	PO		BM	06/22/1998
Violet-green Swallow		WC43	PO		BM	06/22/1998
Warbling Vireo		WC43	PO		BM	06/22/1998
Western Meadowlark		WC43	PO		RP	05/29/1998
Western Tanager		WC43	PR	A	BM	06/22/1998
Western Wood-Pewee		WC43	PO		RP	05/29/1998
White-winged Junco		WC43	CO	FY	RP	06/30/1999
Wild Turkey		WC43	PO		BM	05/29/1998
Yellow-breasted Chat		WC43	PO		RP	06/15/1998
American Crow		WC44	CO	FL	RP	07/05/1999
American Robin		WC44	PO		RP	06/15/1998
Audubon's Warbler		WC44	PO		RP	05/26/1998
Black-capped Chickadee		WC44	PO		RP	06/15/1998
Brewer's Blackbird		WC44	PR	P	RP	06/02/1998
Chipping Sparrow		WC44	CO	FL	RP	07/05/1999
Common Nighthawk		WC44	PO		RP	06/08/1999
Common Poorwill	*	WC44	PO		RP	06/08/1999
Dusky Flycatcher		WC44	PO		RP	06/15/1998
Eastern Bluebird		WC44	PR	P	RP	06/02/1998

Name	Status	Block	E Code	Behav	Observer	Date
Grasshopper Sparrow		WC44	PO		RP	05/26/1998
House Wren		WC44	PO		RP	06/02/1998
Killdeer		WC44	PR	P	RP	04/13/1999
Lark Sparrow		WC44	PO		RP	07/05/1999
Lewis' Woodpecker	*	WC44	PO		RP	06/02/1998
Mountain Bluebird		WC44	PO		RP	05/26/1998
Mourning Dove		WC44	PO		RP	06/02/1998
Northern Flicker		WC44	PO		RP	05/31/1998
Plumbeous Vireo		WC44	PO		RP	07/05/1999
Red-breasted Nuthatch		WC44	PO		RP	07/05/1999
Red-headed Woodpecker		WC44	PO		RP	06/02/1998
Red-tailed Hawk		WC44	O	O	RP	06/02/1998
Spotted Towhee		WC44	CO	FY	RP	07/05/1999
Upland Sandpiper		WC44	PO		RP	07/05/1999
Vesper Sparrow		WC44	PO		BBS98	06/15/1998
Western Meadowlark		WC44	PO		RP	05/26/1998
Western Tanager		WC44	PO		RP	05/26/1998
Western Wood-Pewee		WC44	PO		RP	07/05/1999
Wild Turkey		WC44	PO		BBS98	06/15/1998
American Crow		WC45	PO		JB	05/20/1999
American Robin		WC45	CO	NE	RP	05/20/1999
Audubon's Warbler		WC45	PO		RP	05/29/1998
Black-capped Chickadee		WC45	PO		RP	05/29/1998
Brown-headed Cowbird		WC45	PO		RP	05/29/1998
Canyon Wren		WC45	PO		JB	05/21/1999
Chipping Sparrow		WC45	PO		RP	05/29/1998
Cliff Swallow		WC45	PO		RP	05/29/1998
Common Nighthawk		WC45	PO		RP	06/08/1999
Common Poorwill	*	WC45	PO		RP	05/16/1999
Common Yellowthroat		WC45	PO		RP	05/29/1998
Cordilleran Flycatcher		WC45	PO		BST	06/23/1999
Dusky Flycatcher		WC45	PR	M	JB	05/20/1999
Grasshopper Sparrow		WC45	PO		BM	05/28/1998
Great Horned Owl		WC45	PO		J/D	05/23/1999
House Wren		WC45	PR	N	JB	05/20/1999
Lark Sparrow		WC45	PO		JB	05/20/1999
Long-eared Owl	*	WC45	PO		RP	04/07/1999
Mourning Dove		WC45	PO		RP	05/29/1998
Northern Flicker		WC45	PO		RP	05/29/1998
Pine Siskin		WC45	PO		JB	05/20/1999
Plumbeous Vireo		WC45	PO		RP	05/29/1998
Red Crossbill		WC45	PO		RP	04/13/1999
Red-breasted Nuthatch		WC45	PO		RP	04/13/1999
Red-tailed Hawk		WC45	PR	P	RP	06/05/1998
Spotted Towhee		WC45	CO	CN	JB	05/20/1999
Turkey Vulture		WC45	O	O	JB	05/20/1999
Upland Sandpiper		WC45	PO		JB	05/20/1999
Vesper Sparrow		WC45	PO		RP	05/29/1998
Warbling Vireo		WC45	PR	P	JB	05/20/1999
Western Meadowlark		WC45	PO		RP	

Name	Status	Block	B Code	Behav	Observer	Date
Western Tanager		WC45	PO		RP	05/29/1998
White-breasted Nuthatch		WC45	CO	ON	J/D	05/23/1999
White-throated Swift		WC45	PR	N	JB	05/20/1999
White-winged Junco		WC45	PO		RP	05/29/1998
Wild Turkey		WC45	PO		BM	05/28/1998
Yellow Warbler		WC45	PR	T	RP	05/29/1998
Yellow-breasted Chat		WC45	PO		RP	05/29/1998
American Kestrel		WC46	CO	NY	RP	07/21/1998
American Robin		WC46	CO	FL	RP	07/15/1999
Black-capped Chickadee		WC46	CO	FY	RP	07/15/1999
Canyon Wren		WC46	PO		RP	07/15/1999
Chipping Sparrow		WC46	PO		RP	07/21/1998
Common Yellowthroat		WC46	PR	S	RP	07/15/1999
Eastern Kingbird		WC46	PO		RP	07/15/1999
European Starling	#	WC46	PO		RP	07/15/1999
Hairy Woodpecker		WC46	CO	NY	RP	07/15/1999
House Wren		WC46	PR	S	RP	07/15/1999
Lewis' Woodpecker	*	WC46	CO	CF	RP	07/15/1999
Mountain Bluebird		WC46	PR	P	RP	05/14/1999
Northern Flicker		WC46	PR	S	RP	07/15/1999
Pine Siskin		WC46	O	O	RP	07/21/1998
Pinyon Jay		WC46	CO	FY	RP	07/15/1999
Red-breasted Nuthatch		WC46	PO		RP	07/21/1998
Red-headed Woodpecker		WC46	CO	FY	RP	07/21/1998
Red-winged Blackbird		WC46	PR	P	RP	05/14/1999
Spotted Towhee		WC46	PO		RP	07/21/1998
Vesper Sparrow	adj	WC46	PO		RP	07/21/1998
Violet-green Swallow		WC46	PO		RP	07/15/1999
White-breasted Nuthatch		WC46	PO		RP	07/21/1998

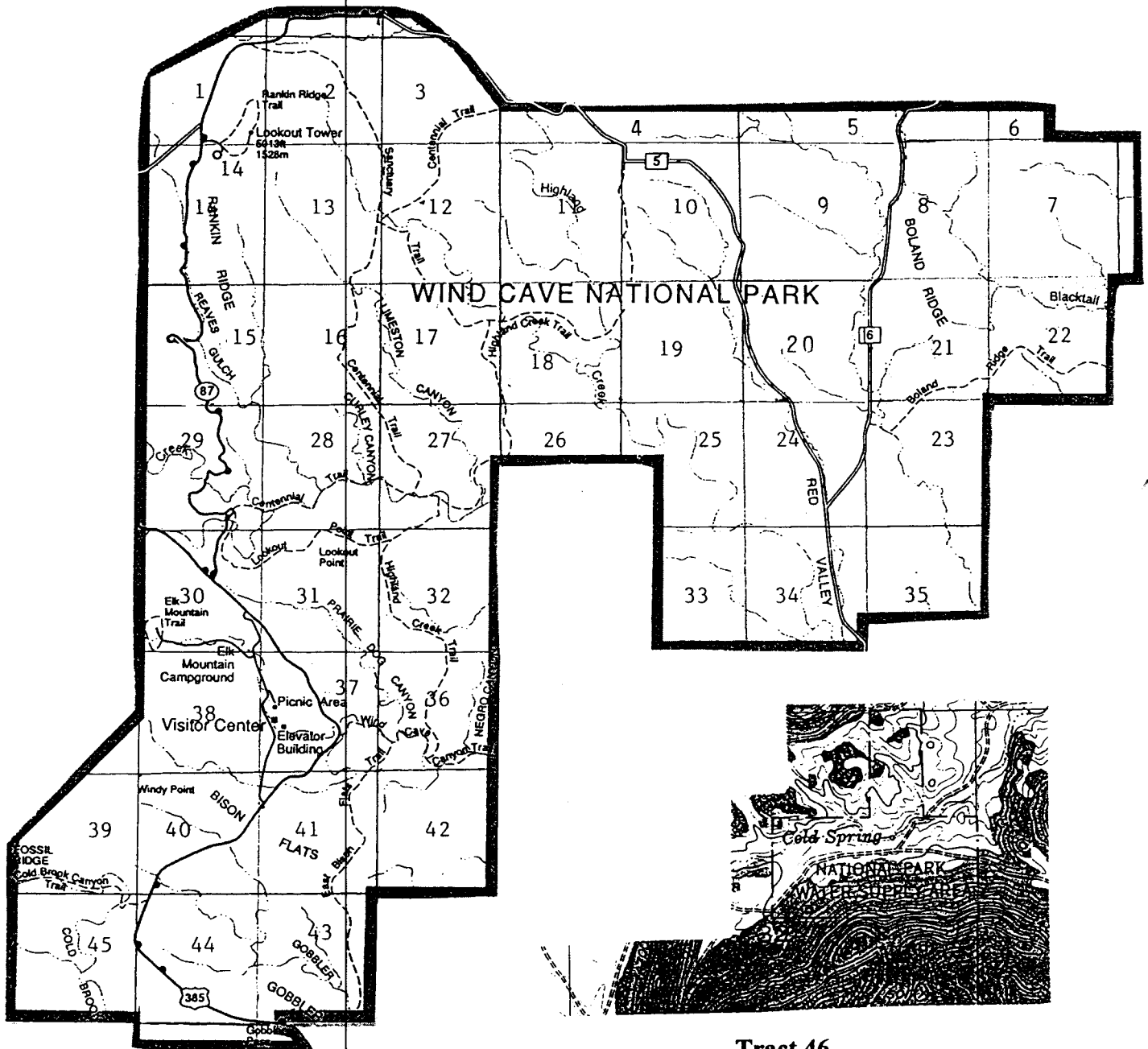
Attachment A

Breeding Behavior Criteria and Codes

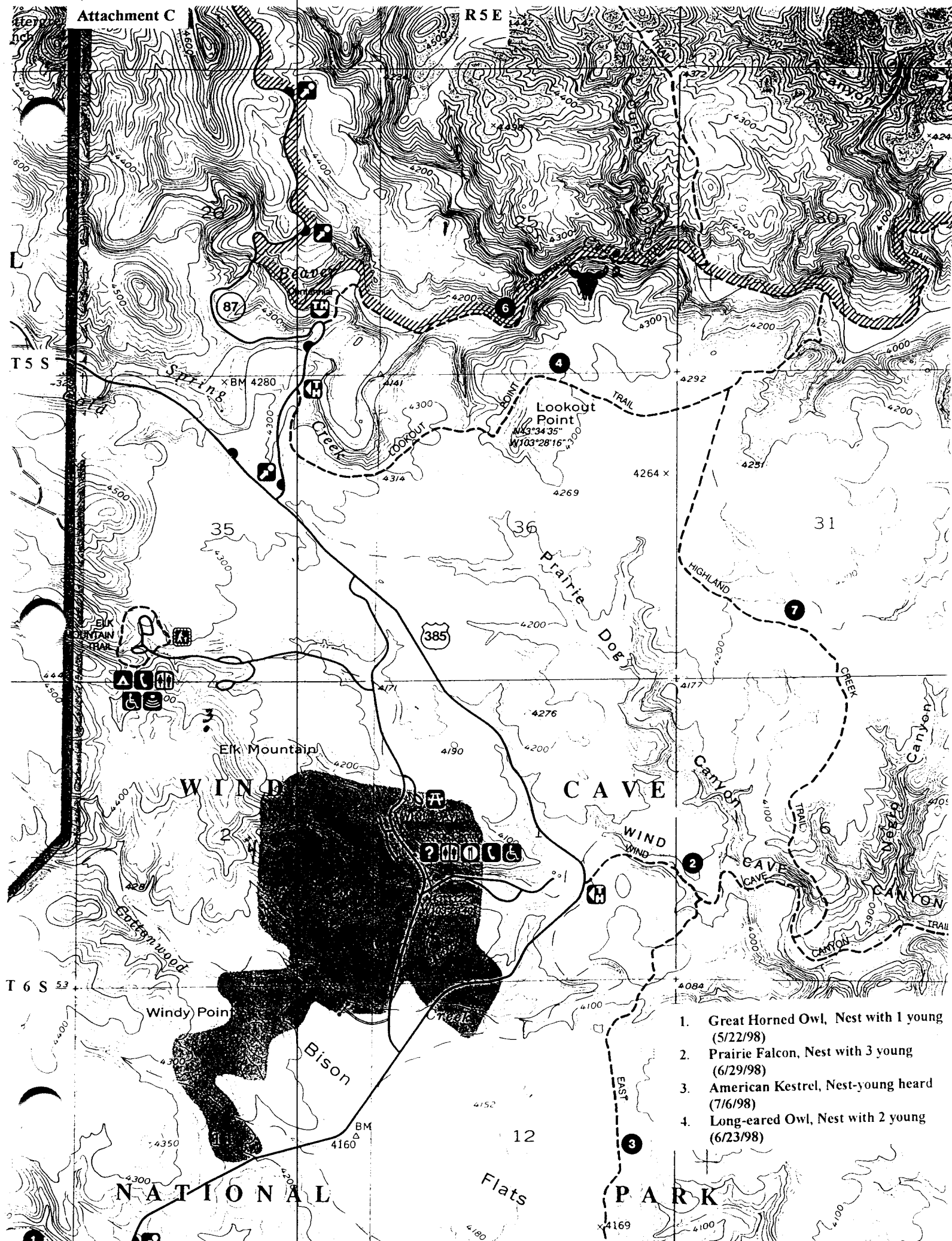
Status	Codes	Evidence
Observed	(O)	O Species (male or female) <u>observed during</u> its breeding season, but no evidence of breeding. Not in suitable nesting habitat. Such as: colonial nesting species not at nesting colony.
Possible	(PO)	? Species (male or female) <u>observed in</u> suitable habitat during its breeding season. X <u>Singing male</u> present in suitable habitat during its breeding season.
Probable	(PR)	M <u>Multiple males</u> (i.e., 7 or more) singing in a block during a single visit, in the breeding season. P <u>Pair</u> observed in suitable nesting habitat during its breeding season. S Permanent territory presumed by <u>singing</u> in same place on 2 or more occasions, 7 or more days apart. T Permanent <u>territory</u> presumed through defense of <u>territory</u> (chasing birds of same species). C <u>Courtship</u> behavior, or copulation. N Visiting probable <u>nest-site</u> . A <u>Agitated behavior</u> or anxiety calls by adult. B Nest <u>building</u> by wrens: hole excavation by woodpeckers.
Confirmed	(CO)	CN <u>Carrying nesting materials</u> (sticks, etc.). NB <u>Nest building</u> by all except wrens and woodpeckers. PE <u>Physiological evidence</u> based on bird in hand (highly vascularized brood patch, etc.). DD <u>Distraction display</u> or feigning injury. PY Flightless <u>precocial young</u> . FL Recently <u>fledged</u> young (either precocial or altricial) incapable of sustained flight, and restricted to the natal area by limited mobility and dependence on adults. ON <u>Occupied nest</u> : Adults entering or leaving a site in circumstances indicating an occupied nest. Used for difficult to view nests and/or nest contents. CF Adult <u>carrying food</u> for the young. FY Adults feeding recently <u>fledged young</u> . FS Adults carrying <u>fecal sac</u> . NE <u>Nest</u> with eggs.* NY <u>Nest</u> with <u>young</u> seen or heard.

* presence of cowbird eggs or young is confirmation of both cowbird and host species

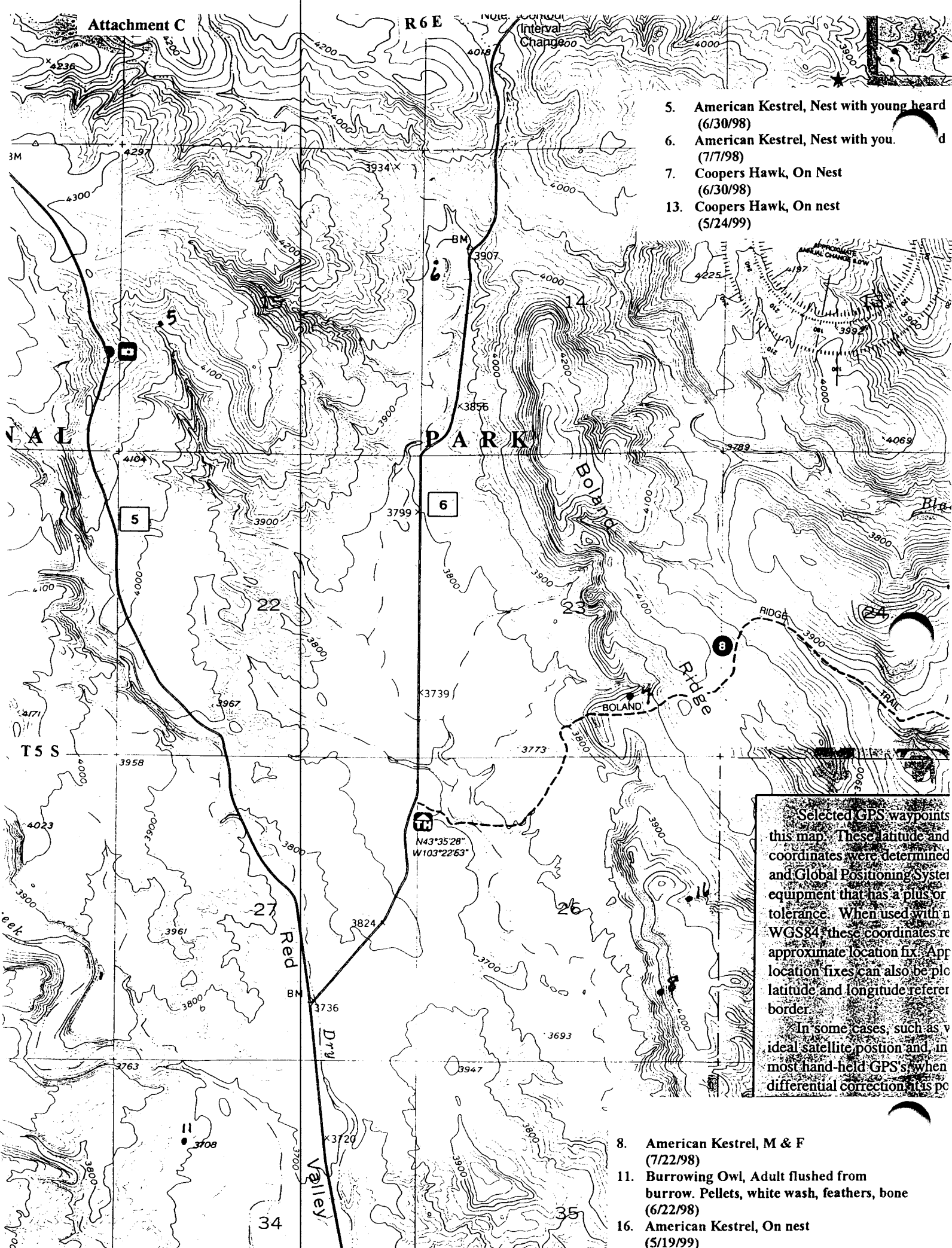
BIRD SURVEY TRACT 1 - 46



Tract 46
T5S, R5E, NE ¼ Sec. 32



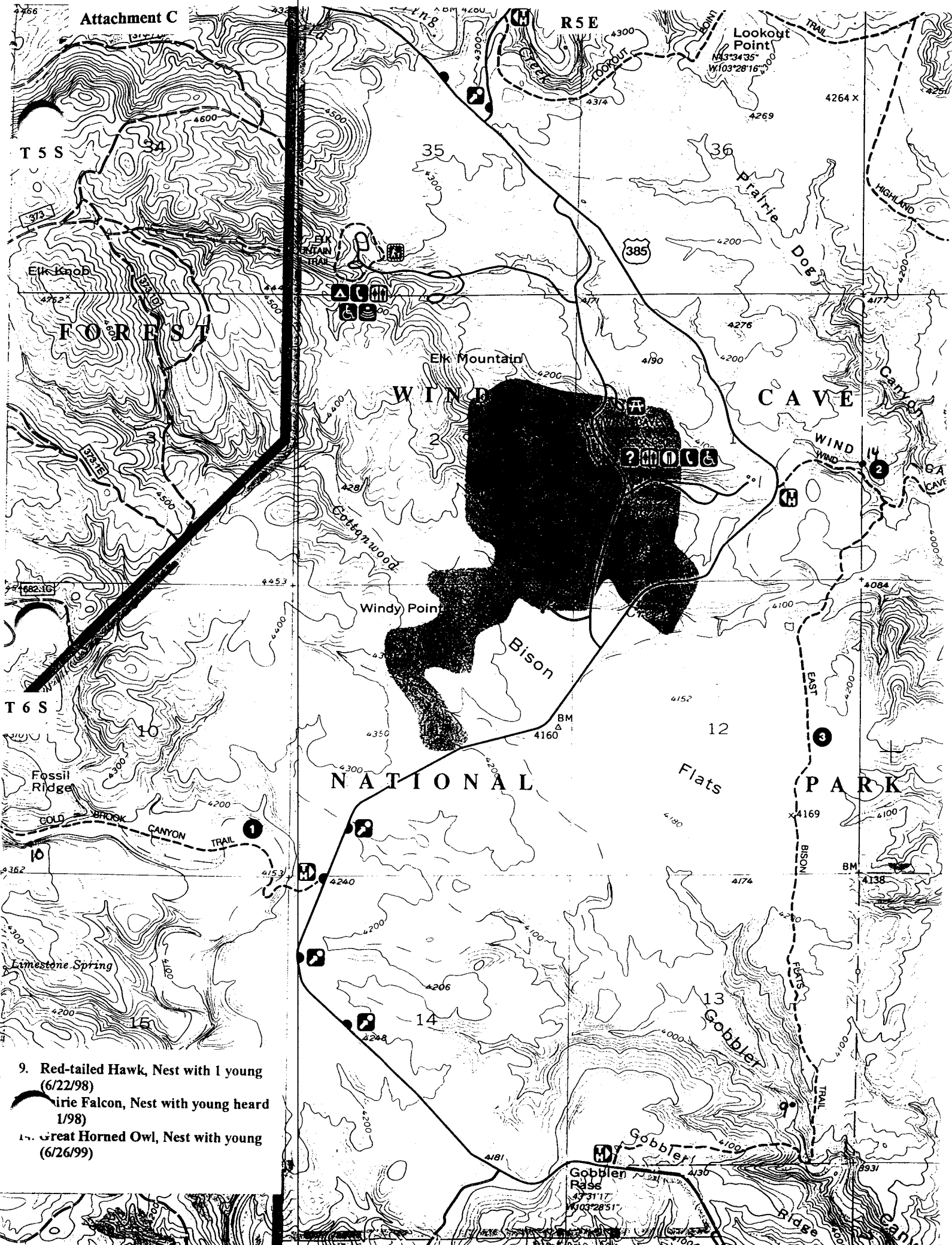
5. American Kestrel, Nest with young heard (6/30/98)
6. American Kestrel, Nest with you. d (7/7/98)
7. Coopers Hawk, On Nest (6/30/98)
13. Coopers Hawk, On nest (5/24/99)



Selected GPS waypoints on this map. These latitude and longitude coordinates were determined using a Global Positioning System (GPS) receiver. When used with a WGS84 datum, these coordinates are approximate location fixes. Approximate location fixes can also be plotted using latitude and longitude reference data.

In some cases, such as with a poor satellite position and/or in most hand-held GPS's when differential correction is not available, the location fix may be less accurate.

8. American Kestrel, M & F (7/22/98)
11. Burrowing Owl, Adult flushed from burrow. Pellets, white wash, feathers, bone (6/22/98)
16. American Kestrel, On nest (5/19/99)



9. Red-tailed Hawk, Nest with 1 young
(6/22/98)
10. Prairie Falcon, Nest with young heard
(1/98)
11. Great Horned Owl, Nest with young
(6/26/99)

