

# Idaho Bald Eagle Nest Monitoring

## 2003 Annual Report



Compiled by

Rex Sallabanks, Ph.D.  
Nongame Bird Biologist and Partners in Flight Coordinator

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Idaho Department of Fish and Game  
Nongame and Endangered Wildlife Program  
P.O. Box 25, 600 S. Walnut St.  
Boise, Idaho 83707

Steve Huffaker, Director



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## ABSTRACT

This report summarizes the 2003 bald eagle (*Haliaeetus leucocephalus*) nesting survey for Idaho. The nesting population of bald eagles in Idaho increased considerably in 2003. More nests were monitored ( $n = 160$ ) and more nests were occupied ( $n = 147$ ) than in any year previously reported. Nineteen previously undocumented nests were discovered. One hundred three nests successfully fledged a total of 164 young – also the highest numbers on record. Nest-site occupancy continued to increase, as it has done each year since 1997. Nest failure rates were lower than in 2002 (30% of occupied nests;  $n = 44$ ) resulting in greater production of young per occupied nest (1.12 young/nest) and per successful nest (1.59 young/nest). In general, bald eagle recovery in Idaho appears to be on track as several demographic measures indicate the population to be stable to increasing.

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## ACKNOWLEDGMENTS

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## INTRODUCTION

Bald eagles nest in 3 primary areas within Idaho (Fig. 1). The largest nesting population is located in eastern Idaho along the North and South Forks of the Snake River and its tributaries (bald eagle management zone 18). The other large concentration of nesting bald eagles is located within the Pend Oreille River drainage and the Kootenai valley of north Idaho (bald eagle management zone 7). The North Fork of the Payette River drainage, including Cascade Reservoir, contains another significant concentration of nesting bald eagles (bald eagle management zone 15W). Other territories are scattered throughout central and southern Idaho (Fig. 1). Bald eagle recovery in Idaho is assessed in terms of 10 management zones as outlined in the Pacific Bald Eagle Recovery Plan (U.S. Fish and Wildlife Service 1986). Some management zones are shared with surrounding states. This report summarizes only the Idaho portions of those zones (Fig. 2).

The objectives of annual nesting bald eagle surveys are to:

1. Determine the productivity of breeding pairs at all occupied bald eagle territories in Idaho.
2. Compile nesting data and other information for the purpose of monitoring bald eagle recovery in Idaho.
3. Document and map the locations of new bald eagle territories as well as new nests within existing territories.

Idaho coordinators and their respective areas of responsibility are as follows:

Jennifer Soules	(IDFG, Panhandle Region)	Zone 7
Dan Davis	(USFS, Region 1)	Zone 8, 15N
Von Pope	(Idaho Power, Hells Canyon)	Zone 14
Bruce Haak	(IDFG, Southwest Region)	Zone 16, 37W
Beth Waterbury	(IDFG, Salmon Region)	Zone 15E
Diane Evans Mack	(IDFG, McCall Subregion)	Zone 15W
Scott Bailey	(IDFG, Magic Valley Region)	Zone 17W, 20W
Lauri Hanauska-Brown	(IDFG, Upper Snake Region)	Zone 17E, 18
Martha Wackenhut	(IDFG, Southeast Region)	Zone 19, 20E

## METHODS

Aerial, ground, and float surveys were used to collect nesting data on eagles. Occupied territories (pair of eagles present) with known outcome were surveyed at least twice. The first survey, generally during March, was conducted to determine occupancy. Occupied territories were surveyed again when the nestlings were within approximately

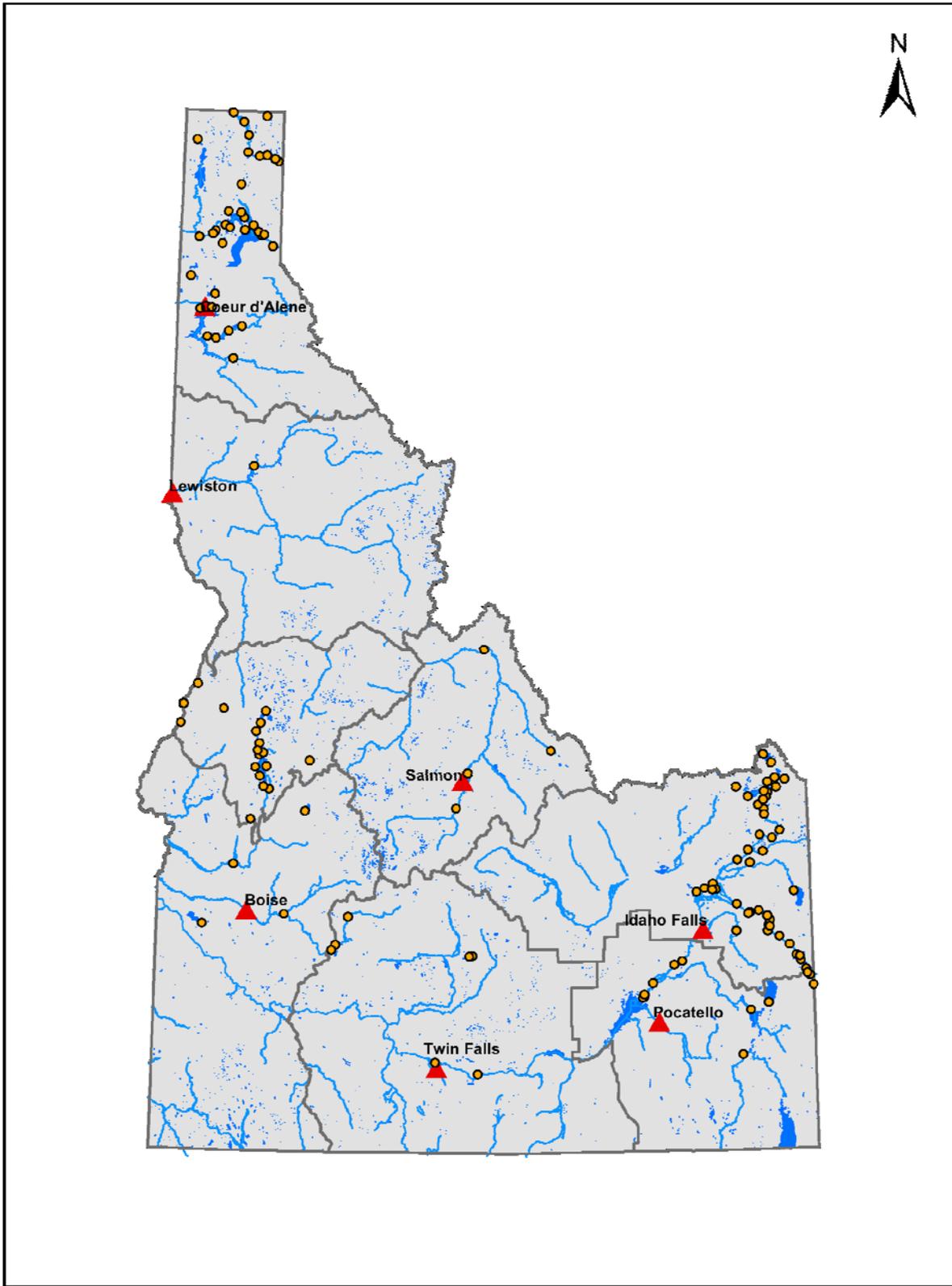


Fig. 1. Distribution of bald eagle nesting territories in Idaho (based upon 2001 reports).

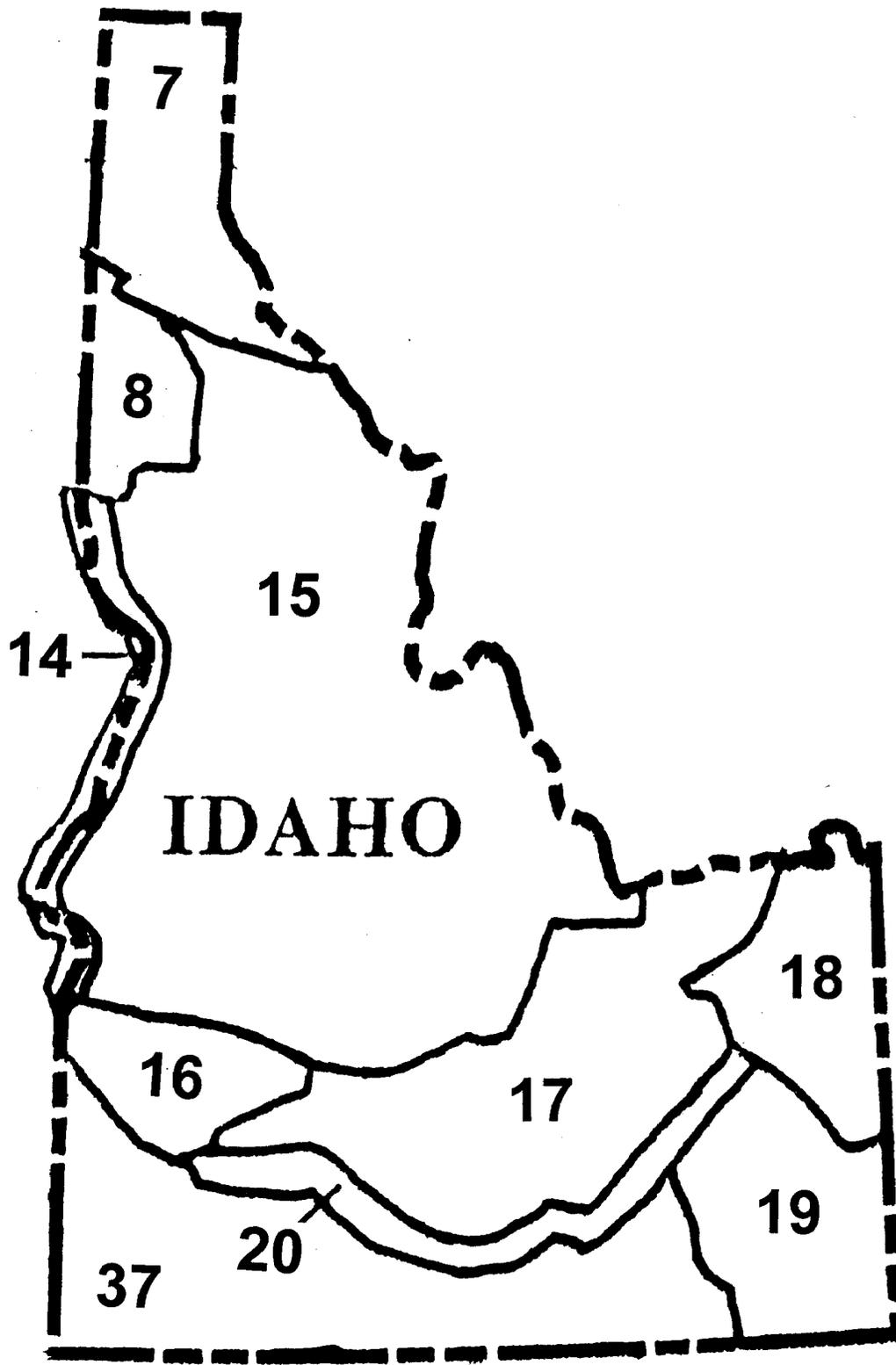


Fig. 2. Idaho bald eagle management zones (U.S. Fish and Wildlife Service 1986).

1 to 2 weeks of fledging (late June to mid-July) to determine productivity (the number of successful pairs and the number of near fledging-age young) (Steenhof 1987). Nests were occasionally checked at other times, with pertinent information recorded on nest observation forms.

## RESULTS

One hundred sixty bald eagle nest sites were monitored in 2003, 147 of which were occupied (Tables 1 and 2). See Appendix A for territory locations and land ownership. Of the 147 occupied nest sites, 20 were new territories in 2003 (Table 1). One hundred sixty-four young (34 more than in 2002) reaching fledging age were produced from 103 successful nests, for an average of 1.59 young per successful pair (Table 2). Thirty percent of occupied bald eagle nests were either unsuccessful or the outcome was undetermined (Table 2); this rate was down from that recorded in 2002 (35%). Results of monitoring in 2003 suggest that Idaho's bald eagle population continues to thrive with numerous demographic parameters showing stable to increasing trends (Fig. 3).

Table 2. 2003 Idaho bald eagle productivity, summarized by management zone.

	Management Zone							Total
	7	14	15	16	17	18	20	
No. territories checked	52	2	26	10	1	57	12	159
No. occupied territories	49	2	23	8	1	54	10	146
% occupied	0.94	1.00	0.88	0.80	1.00	0.95	0.83	0.92
No. successful territories	39	2	14	3	1	35	9	102
No. nest failures	10	0	9	5	0	20	1	44
% failing	0.20	0.00	0.39	0.63	0.00	0.37	0.10	0.30
No. young produced	62	4	24	3	2	54	15	162
Young / occupied territory	1.27	2.00	1.04	0.38	2.00	1.00	1.50	1.11
Young / successful territory	1.59	2.00	1.71	1.00	2.00	1.54	1.67	1.59

### Bald Eagle Management Zone Narratives

*Zone 7* – Fifty-two nesting territories were monitored within Zone 7 during 2003, 49 of which were occupied (Table 2). Seven new territories were documented in Zone 7 in 2003 although only 2 of these were successful (Table 1). Pearl Island (07I05101; discovered in 2002) replaced the old Warren Island territory (07I02101) and successfully fledged 1 young in 2003. Yellow Banks (07I03201), which was destroyed in 1999, appears to have been replaced by a new nest discovered in 2003 (Hayden Lake; 07I05601). An average of 1.59 young was produced from 39 successful nests. Sixty-two young fledged from nests within the zone. No bald eagle mortalities were reported in Zone 7 during 2003.

Table 1. 2003 Idaho bald eagle nest site status and productivity.

Nest No.	Name	Occupied	Eggs Laid	Successful	No. Young
Idaho bald eagle management zone 7					
07100203	Shepherd Pt.		Historical nest – no longer monitored		
07100301	Kootenai NWR	Y	?	N	0
07100402	Colby	Y	Y	Y	1
07100502	Delta	Y	Y	Y	2
07100601	Fisherman Island	Y	Y	Y	2
07100701	Bonnors Ferry	N	-	-	-
07100801	Springy Point	?	?	?	?
07100902	Trout Creek	Y	Y	Y	1
07101001	Eaton Lake	Y	Y	Y	2
07101101	McArthur Lake	Y	Y	Y	1
07101201	Moyie	Y	?	N	0
07101301	Twin Lakes		Historical nest – no longer monitored		
07101401	Jerome Slough	Y	Y	Y	1
07101501	Robinson Lake	Y	Y	Y	2
07101602	Upper Priest Lake	Y	Y	Y	2
07101702	Killarney Lake	Y	Y	Y	3
07101801	Boundary Creek	Y	Y	Y	2
07101901	Mission Slough	Y	?	N	0
07102001	Swan Lake	Y	?	N	0
07102101	Warren Island		Historical nest – replaced by Pearl Island territory		
07102201	Sagle Slough	Y	Y	Y	1
07102303	Carey Creek	Y	Y	Y	2
07102401	Turtle Lake		Historical nest – no longer monitored		
07102501	Morton Slough	Y	Y	Y	1
07102601	Cocolalla Slough	Y	Y	Y	1
07102701	Crossport	Y	Y	Y	2
07102801	N. Fork of Clark Fork		Historical nest – no longer monitored		
07102901	Oden Bay	Y	Y	Y	2
07103001	Katka	Y	?	N	0
07103101	Anderson Lake	Y	Y	Y	2
07103201	Yellow Banks		Historical nest – replaced by Hayden Lake territory		
07103301	Cocolalla Lake	Y	Y	Y	1
07103401	Fernan Lake	Y	Y	Y	1
07103501	Cougar Bay	Y	Y	Y	2
07103601	Little Sand Creek	Y	Y	Y	2
07103701	Falls Creek	Y	Y	Y	1
07103801	Blanchard Lake	Y	Y	Y	2
07103901	Bear Creek	Y	Y	Y	2
07104001	Kalispell Island	Y	Y	Y	2
07104101	Outlet Bay	Y	Y	Y	1
07104201	Carter's Island	Y	Y	Y	1
07104301	St. Maries	Y	Y	Y	1
07104401	Monarchs	Y	Y	Y	2
07104501	Muskrat Lake	Y	Y	Y	2
07104601	Albeni Cove	Y	Y	Y	1
07104701	Lower Shorty Island	Y	Y	Y	2
07104801	Caboose Creek	N	-	-	-

Table 1. Continued.

Nest No.	Name	Occupied	Eggs Laid	Successful	No. Young
07104901	Lower Priest River	?	?	?	?
07105001	Hunter Ranch	N	-	-	-
07105101	Pearl Island	Y	Y	Y	1
07105201	Hoodoo Lake	Y	Y	Y	2
07105301	Whiskey Rock	Y	Y	Y	2
07105401	Mica Bay	Y	Y	Y	1
07105501	<u>Blacktail</u> <sup>a</sup>	Y	?	N	0
07105601	<u>Hayden Lake</u>	Y	?	N	0
07105701	<u>Heyburn State Park</u>	Y	?	N	0
07105801	<u>Hoodoo Creek</u>	Y	?	N	0
07105901	<u>Perkins Lake</u>	Y	?	N	0
07106001	<u>Sunnyside</u>	Y	Y	Y	2
07106101	<u>Three Sisters</u>	Y	Y	Y	1
Zone 7 Subtotal:		49	39	39	62
Idaho bald eagle management zone 14					
14100201	Dry Gulch			Historical nest – no longer monitored	
14100301	Lone Pine			Historical nest – no longer monitored	
14100401	Hells Canyon	Y	Y	Y	2
14100501	<u>Hibble Gulch</u>	Y	Y	Y	2
Zone 14 Subtotal:		2	2	2	4
Idaho bald eagle management zone 15					
15100203	Donnelly	Y	Y	Y	1
15100301	French Creek	Y	Y	Y	2
15100402	Cabarton	Y	Y	Y	1
15100501	Poison Creek	Y	?	N	0
15100603	Buttercup	Y	Y	Y	2
15100701	Hurd Creek	N	-	-	-
15100801	Gold Fork	Y	Y	Y	2
15100902	Hait Ranch	Y	Y	N	0
15101001	Deadwater	Y	Y	Y	2
15101101	Challis			Historical nest – no longer monitored	
15101201	Sugarloaf	Y	Y	Y	1
15101301	Lost Valley	Y	?	N	0
15101401	Deadwood	N	-	-	-
15101501	High Valley	Y	Y	Y	2
15101601	Ponderosa			Historical nest – no longer monitored	
15101701	Lyon Creek			Historical nest – no longer monitored	
15101802	McCall Airport	Y	Y	Y	1
15101901	Warm Lake	Y	Y	Y	2
15102001	Lemhi	Y	?	N	0
15102101	Raspberry	Y	Y	Y	2
15102201	Dworshak			Historical nest – no longer monitored	
15102301	Boulder Creek	Y	Y	Y	2
15102401	Smith's Ferry	Y	?	N	0
15102501	Carmen	Y	Y	Y	2
15102601	Paddy Flat	Y	?	N	0

Table 1. Continued.

Nest No.	Name	Occupied	Eggs Laid	Successful	No. Young
15I02701	Island/Hot Spring Park	Y	?	N	0
15I02801	Benton Butte	N	-	-	-
15I02901	<u>River Mile 265</u>	Y	Y	N	0
15I03001	<u>Wagonhammer</u>	Y	Y	Y	2
15I03101	<u>Struggle Gulch</u>	Y	N	N	0
Zone 15 Subtotal:		23	16	14	24
Idaho bald eagle management zone 16					
16I00202	Powerline	Y	Y	Y	1
16I00301	Featherville	Y	Y	N	0
16I00402	Lake Lowell 1 (Canal)	Y	?	N	0
16I00501	Montour		Historical nest – no longer monitored		
16I00601	Arrowrock	Y	Y	Y	1
16I00701	Camas Arm	Y	Y	Y	1
16I00702	Camas Arm 2	N	-	-	-
16I00801	Grouse Creek	N	-	-	-
16I00901	Lake Lowell 2 (P6)	Y	?	N	0
16I01001	<u>Upper S. Fk. Arrowrock</u>	Y	?	N	0
16I01101	<u>Baker Ranch</u>	Y	N	N	0
Zone 16 Subtotal:		8	4	3	3
Idaho bald eagle management zone 17					
17I00101	Silver Creek 1		Historical nest – no longer monitored		
17I00201	Silver Creek 2		Historical nest – no longer monitored		
17I00301	Carey Lake	Y	Y	Y	2
Zone 17 Subtotal:		1	1	1	2
Idaho bald eagle management zone 18					
18IS01/4	Hoffman East	N	-	-	-
18IS02	Williams Creek	Y	Y	Y	1
18IS03/3	Van Point (North)	Y	Y	Y	1
18IS04/2	Palisades Creek	Y	Y	Y	2
18IS05/6	Swan Valley	Y	Y	Y	2
18IS06/3	Conant Valley	Y	Y	Y	2
18IS07/5	Pine Creek	Y	Y	Y	2
18IS08/4	Dry Canyon	Y	Y	Y	2
18IS09	Gormer Canyon	Y	?	N	0
18IS10/1	Wolverine	Y	Y	Y	1
18IS11/5	Antelope Creek	Y	Y	Y	1
18IS12	Cress Creek	Y	?	N	0
18IS13/3	Confluence	Y	Y	Y	1
18IS14/2	Cartier Slough	Y	Y	Y	1
18IS15	St. Anthony	Y	Y	Y	2
18IS16	Singleton Pond	Y	Y	Y	1
18IS17	Edwards Creek	Y	N	N	0
18IS18	King Creek	Y	N	N	0
18IS19	Lower Fall River	Y	Y	Y	1
18IS20	Menan Buttes	Y	Y	Y	2

Table 1. Continued.

Nest No.	Name	Occupied	Eggs Laid	Successful	No. Young
18IS21	Upper Teton River	Y	Y	Y	2
18IS22	Market Lake	Y	Y	Y	1
18IS23	Hog Hollow	Y	Y	N	0
18IS24/1	Five Ways	Y	Y	Y	2
18IS25/2	Clark Hill	Y	Y	Y	2
18IS26	Ririe Reservoir	Y	?	N	0
18IS27	Annis Slough	Y	Y	Y	2
18IS28	Hoffman W. / Trout Ck.	Y	Y	Y	2
18IS29	Van Point South	Y	N	N	0
18IS30	Spring Hollow	Y	Y	Y	1
18IS31	Great Feeder Island	Y	Y	Y	2
18IS32	Trail Creek	Y	Y	Y	1
18IS33	Danford	N	-	-	-
18IS34/2	Fun Farm Bridge	Y	Y	Y	2
18IS35	Dry Bed	Y	Y	Y	2
18IS36	Table Rock Canyon	Y	Y	Y	1
18IC01	Kerr Canyon	Y	Y	N	0
18IC02/2	Pine Haven	Y	N	N	0
18IC03/1	Box Canyon	Y	Y	Y	1
18IC04/2	Coffee Pot	Y	N	N	0
18IC05	Bishop Lake	Y	N	N	0
18IC06/2	Sheridan Reservoir	Y	Y	Y	2
18IC07/2	Lucky Dog	Y	N	N	0
18IC08	Henry's Lake	Y	Y	Y	1
18IC09/2	Staley Springs	Y	N	N	0
18IC10	Hale Canyon	Y	N	N	0
18IC11/3	Moonshine	Y	Y	N	0
18IC12	Last Chance	Y	Y	Y	1
18IC13/2	IP Bills	Y	Y	Y	2
18IC14/2	Flat Rock	Y	N	N	0
18IC15/2	Riverside	Y	Y	Y	2
18IC16	Snake River Butte	Y	N	N	0
18IC17	Buffalo River	Y	N	N	0
18IC18	Big Bend	Y	N	N	0
18IC19	Upper Mesa Falls	N	-	-	-
18IC20	<u>La Belle (38)</u>	Y	Y	Y	1
18IC21	<u>Lowder Slough</u>	Y	Y	Y	2
Zone 18 Subtotal:		54	38	35	54

Idaho bald eagle management zone 20

20I00101	Ferry Butte			Historical nest – no longer monitored	
20I00201	Kimball	N	-	-	-
20I00301	McTucker			Hist. nest – no longer monitored (same as “Old Fort Hall”)	
20I00401	Blue Lakes			Historical nest – no longer monitored	
20I00501	Milner Dam			Historical nest – no longer monitored	
20I00601	Old Fort Hall	Y	Y	Y	2
20I00701	Spring Island			Historical nest – nest structure missing	

Table 1. Continued.

Nest No.	Name	Occupied	Eggs Laid	Successful	No. Young
20I00801	Rose	Y	Y	Y	3
20I00901	Pingree	Y	Y	Y	1
20I00902	Power Pole		Historical nest – no longer monitored		
20I01001	Grays Lake	Y	Y	Y	1
20I01101	Alexander	Y	Y	Y	2
20I01201	SE Gooding	Y	Y	Y	1
20I01202	Carrigan	N	-	-	-
20I01301	<u>Lake Walcott (Bird Is.)</u>	Y	Y	Y	2
20I01401	<u>Ferry Butte 2</u>	Y	Y	Y	2
20I01501	<u>Lucia</u>	Y	Y	N	0
20I01601	<u>Pegram</u>	Y	Y	Y	1
Zone 20 Subtotal:		10	10	9	15
Statewide Total:		147	110	103	164

<sup>a</sup> Underlined territories are new territories for 2003.

*Zone 14* – The Hells Canyon nest (discovered in 1998) was again active in Zone 14 in 2003; as in recent previous years, this nest successfully fledged 2 young. One new nest was discovered (Hibble Gulch; 14I00501), successfully fledging 2 young (Table 1). No bald eagle mortalities were reported for Zone 14 during 2003.

*Zone 15* – As in 2002, 25 territories were monitored within Zone 15 during 2003. Twenty-two nests were occupied (Table 2). Three new territories were documented although the River Mile 265 territory (15I02901) was actually discovered in 2002 but wasn't reported. The McCall Airport nest (15I01802) was a new alternate to that used in 2002. The original Dworshak nest (15I02201) was changed to a historical site as it was falling apart and hasn't been occupied for the last 2 years. The Deadwood territory now includes 2 alternate nests located on adjacent ridges although neither were occupied in 2003. In 2003, an average of 1.69 young was produced from 13 successful nests. Twenty-two young fledged from nests within the zone (Table 2). No bald eagle mortalities were reported in Zone 15 during 2003.

*Zone 16* – Ten territories were monitored within Zone 16 during 2003, 8 of which were occupied (Table 2). Two new nests were reported: Upper S. Fk. Arrowrock (16I01001) and Baker Ranch (16I01101). The Upper S. Fk. Arrowrock territory was originally discovered in 2002 (when it failed) but was omitted from the 2002 annual report. Both nests at Lake Lowell were again occupied but failed. An average of 1.00 young was produced from 3 successful nests (Table 2). No bald eagle mortalities were reported for Zone 16 during 2003.

*Zone 17* – The 2 Silver Creek territories are now considered historical sites and are no longer monitored. Carey Lake (17I00301) successfully fledged 2 young. No bald eagle mortalities were reported in Zone 17 during 2003.

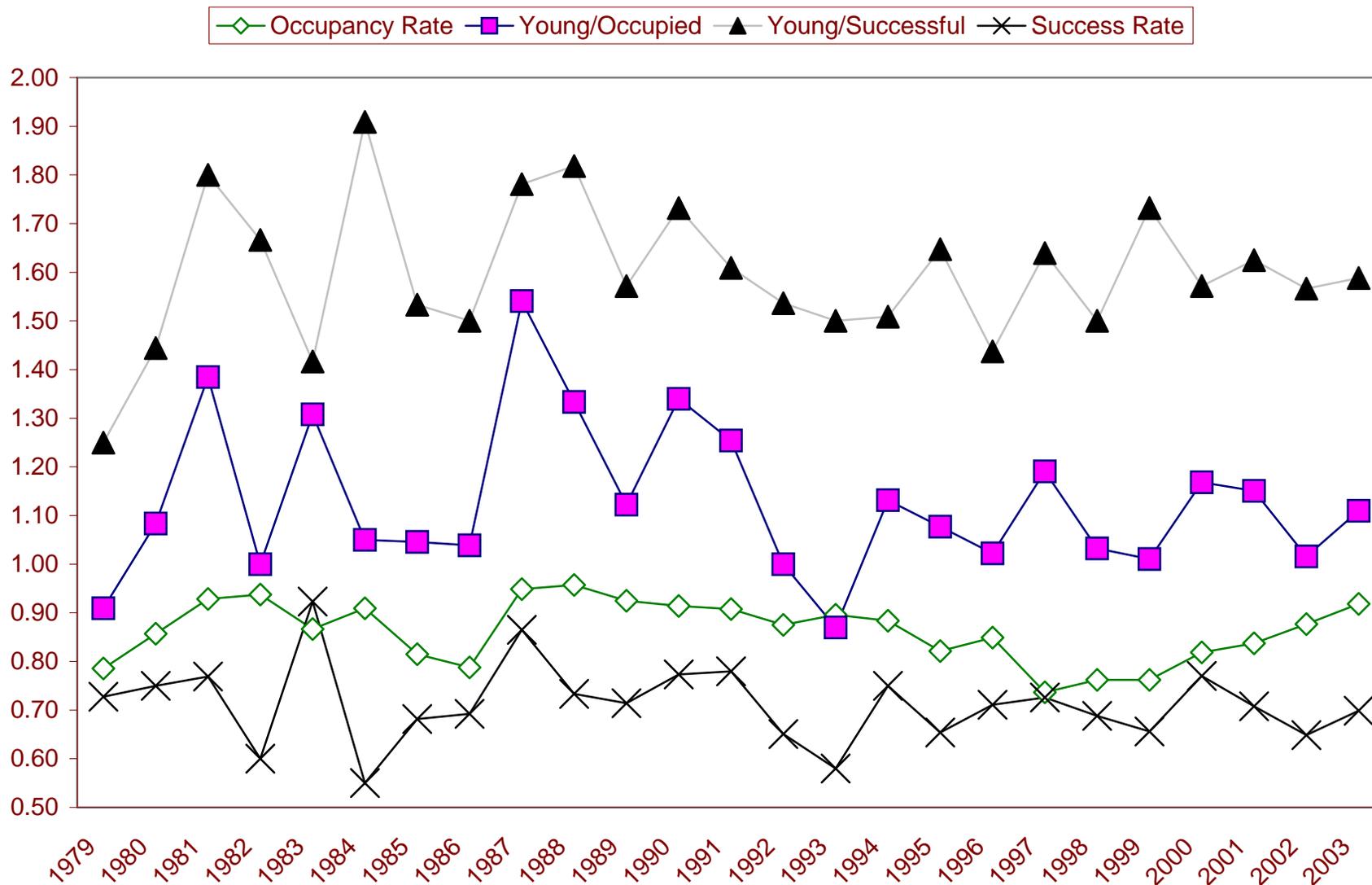


Fig. 3. Idaho bald eagle nest monitoring trends, 1979–2003.

*Zone 18* – Fifty-seven territories, including 8 new nests, were monitored within Zone 18 during 2003 (Whitfield 2003) (Table 1). One new nest (Trout Creek) was a new alternate site in the original Hoffman West territory. In addition, Pine Creek, Five Ways, Fun Farm Bridge, Moonshine, and Clark Hill territories all had new alternate nests within them in 2003. Two entirely new territories for 2003 were La Belle (18IC20) and Lowder Slough (18IC21). The Dry Bed site (18IS35) had apparently been excluded from annual reports in previous years. An average of 1.54 young was produced from 35 successful nests. Fifty-four young fledged from nests within the zone (Table 2). Productivity of birds within the Snake Idaho unit of the GYE was the highest on record whereas that in the Continental Idaho unit was at very low levels (Whitfield 2003). No bald eagle mortalities were reported in Zone 18 during 2003.

*Zone 20* – Twelve territories were monitored in Zone 20 during 2003, 10 of which were occupied (Table 1). Four new territories was documented in 2003: (1) at Bird Island on Lake Walcott (20I01301); (2) a new nest near an old site last used in 1996 (Ferry Butte 2; 20I01401); (3) Lucia (20I01501); and (4) Pegram (20I01601). Fifteen young were successfully fledged from 9 successful Zone 20 nests for an average of 1.67 young per successful pair.

*Zones 8, 19, & 37* – No territories were documented for these zones during 2003.

## **DISCUSSION**

In 2003, the number of occupied bald eagle territories in Idaho increased to 147 – the highest number recorded since reporting began (Table 3). More sites were checked than in any previous year and occupancy rates were up for the 7<sup>th</sup> straight season. In general, bald eagle recovery in Idaho appears to be on track with the recovery population goals established in the Pacific Bald Eagle Recovery Plan (U.S. Fish and Wildlife Service 1986). As the FWS moves closer to de-listing the bald eagle, Idaho's bald eagle population appears to be stable to increasing (Fig. 3).

Continued thorough and systematic surveys of Idaho's breeding bald eagle population are needed to ensure that the population recovery is adequately monitored. Zone coordinators (see page 6) should compile results of nesting surveys for territories in their regions and then submit reports to Rex Sallabanks, Nongame Wildlife Program, IDFG, P.O. Box 25, Boise ID, 83707 (<mailto:rsallabanks@idfg.state.id.us>). In order to produce a timely statewide summary, we would appreciate receiving zone reports for the 2004 nesting season by 30 September 2004. It is important to identify bald eagle territories by their territory or nest number, which reflects the zone, territory within the zone, region within the zone, and any alternate nests within the territory. It has become increasingly important to completely document all alternate nests within territories. Contact Rex Sallabanks at the Nongame Wildlife Program to obtain the appropriate nest record and survey forms. Electronic submission of reports is preferred. Finally, if zone coordinators are aware of nests within their zones that are unable to be monitored in 2004, please contact IDFG headquarters immediately.

Table 3. Annual summary of statewide bald eagle productivity, 1979–2003.

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
No. territories checked	11	12	13	15	13	28	28	33	39	47	53
No. occupied territories	11	12	13	15	13	20	23	26	37	45	49
% occupied	1.00	1.00	1.00	1.00	1.00	0.71	0.82	0.79	0.95	0.96	0.92
No. successful territories	8	9	10	9	12	11	14	24	32	33	37
No. nest failures	3	3	3	6	1	9	9	2	5	12	12
% failing	0.38	0.33	0.30	0.67	0.08	0.82	0.64	0.08	0.16	0.36	0.32
No. young produced	10	13	18	15	17	21	23	26	60	60	55
Young / occupied territory	0.91	1.08	1.38	1.00	1.31	1.05	1.00	1.00	1.62	1.33	1.12
Young / successful territory	1.25	1.44	1.80	1.67	1.42	1.91	1.64	1.08	1.88	1.82	1.49
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
No. territories checked	58	64	72	75	86	94	104	114	122	126	138
No. occupied territories	53	57	63	70	76	77	90	84	92	95	113
% occupied	0.91	0.89	0.88	0.93	0.88	0.82	0.87	0.74	0.75	0.75	0.82
No. successful territories	46	49	42	56	71	52	66	64	63	60	84
No. nest failures	7	8	21	14	5	25	24	20	25	30	26
% failing	0.13	0.14	0.33	0.20	0.07	0.32	0.27	0.24	0.27	0.32	0.23
No. young produced	71	71	66	60	85	84	92	100	95	104	132
Young / occupied territory	1.34	1.25	1.05	0.86	1.12	1.09	1.02	1.19	1.03	1.09	1.17
Young / successful territory	1.54	1.45	1.57	1.07	1.20	1.62	1.39	1.56	1.51	1.73	1.57
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
No. territories checked	135	145	160								
No. occupied territories	113	128	147								
% occupied	0.84	0.88	0.92								
No. successful territories	80	83	103								
No. nest failures	33	45	44								
% failing	0.29	0.35	0.30								
No. young produced	130	130	164								
Young / occupied territory	1.15	1.02	1.12								
Young / successful territory	1.63	1.57	1.59								

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Appendix A. Idaho bald eagle territory locations and land ownership.

Nest No.	Name	County	Ownership	USGS Quad
07I00203	Shepherd Pt.	Bonner	Private	Packsaddle Mt.
07I00301	Kootenai NWR	Boundary	USFWS	Moravia
07I00402	Colby	Bonner	Private	Clark Fork
07I00502	Delta	Bonner	IDFG	Clark Fork
07I00601	Fisherman Island	Bonner	USACOE	Elmire
07I00701	Bonnors Ferry	Bonner	BLM	Bonnors Ferry
07I00801	Springy Point	Bonner	Private	Sagle
07I00902	Trout Creek	Boundary	Private	Farnham Peak
07I01001	Eaton Lake	Bonner	Private	Packsaddle Mt.
07I01101	McArthur Lake	Boundary	IDFG	Naples
07I01201	Moyie	Boundary	USFS	Curley Creek
07I01301	Twin Lakes	Kootenai	Private	Spirit Lake West
07I01401	Jerome Slough	Boundary	Private	Copeland
07I01501	Robinson Lake	Boundary	USFS	Eastport
07I01602	Upper Priest Lake	Boundary	USFS	Upper Priest Lake
07I01702	Killarney Lake	Kootenai	IDFG	Lane
07I01801	Boundary Creek	Boundary	Private	Smith Falls
07I01901	Mission Slough	Kootenai	Private	Rose Lake
07I02001	Swan Lake	Kootenai	Private	Black Lake
07I02101	Warren Island	Bonner	Private	Hope
07I02201	Sagle Slough	Bonner	Private	Sagle
07I02303	Carey Creek	Bonner	Private	Laclede
07I02401	Turtle Lake	Benewah	Private	St. Joe Baldy
07I02501	Morton Slough	Bonner	BLM	Morton
07I02601	Cocolalla Slough	Bonner	Private	Morton
07I02701	Crossport	Boundary	BLM	Moyie Springs
07I02801	N. Fork of Clark Fork	Bonner	Private	Clark Fork
07I02901	Oden Bay	Bonner	Private	Oden Bay
07I03001	Katka	Boundary	BLM	Moyie Springs
07I03101	Anderson Lake	Kootenai	Private	Black Lake
07I03201	Yellow Banks	Kootenai	Private	Hayden Lake
07I03301	Cocolalla Lake	Bonner	Private	Cocolalla
07I03401	Fernan Lake	Kootenai	USFS	Fernan Lake
07I03501	Cougar Bay	Kootenai	Private	Coeur d'Alene
07I03601	Little Sand Creek	Bonner	Sandpoint City	Sandpoint
07I03701	Falls Creek	Shoshone	Private	St. Joe Idaho
07I03801	Blanchard Lake	Bonner	Private	Blanchard
07I03901	Bear Creek	Bonner	IDL	Priest Lake NE
07I04001	Kalispell Island	Bonner	USFS	Priest Lake SW
07I04101	Outlet Bay	Bonner	IDL	Coolin
07I04201	Carter's Island	Bonner	IDFG	Clark Fork
07I04301	St. Maries	Benewah	Private	Saint Maries
07I04401	Monarchs	Bonner	USFS	Hope
07I04501	Muskrat Lake	Bonner	Private	Morton
07I04601	Albeni Cove	Bonner	IDFG	Newport
07I04701	Lower Shorty Island	Boundary	Private	Farnham Peak
07I04801	Caboose Creek	Boundary	USFS	Curley Creek

Appendix A. Continued.

Nest No.	Name	County	Ownership	USGS Quad
07I04901	Lower Priest River	Bonner	Private	Coolin
07I05001	Hunter Ranch	Bonner	State	Oden Bay
07I05101	Pearl Island	Bonner	Private	Hope
07I05201	Hoodoo Lake	Bonner	Private	Edgemore
07I05301	Whiskey Rock	Bonner	USFS	Minerva Peak
07I05401	Mica Bay	Kootenai	Private	Mica Bay
07I05501	Blacktail	Bonner	USFS	Minerva Peak
07I05601	Hayden Lake	Kootenai	Private	Hayden Lake
07I05701	Heyburn State Park	Benewah	State of Idaho	Harrison
07I05801	Hoodoo Creek	Bonner	Private	Laclede
07I05901	Perkins Lake	Boundary	USFS	Line Point
07I06001	Sunnyside	Bonner	Private	Oden Bay
07I06101	Three Sisters	Bonner	Private	Cocolalla
14I00201	Dry Gulch	Adams	USFS	Cuprum
14I00301	Lone Pine	Adams	BLM	Copperfield
14I00401	Hells Canyon	Adams	BLM	Oxbow
14I00501	Hibble Gulch	Adams	USFS	Homestead
15I00203	Donnelly	Valley	BOR	Lone Tree
15I00301	French Creek	Valley	USFS	Cascade
15I00402	Cabarton	Valley	BLM	Alpha
15I00501	Poison Creek	Valley	Private	Donnelly
15I00603	Buttercup	Valley	Private	Donnelly
15I00701	Hurd Creek	Valley	USFS	Cold Springs Ridge
15I00801	Gold Fork	Valley	BOR	Lone Tree
15I00902	Hait Ranch	Valley	Private	No Business Mt.
15I01001	Deadwater	Lemhi	USFS	Ulysses Mt.
15I01101	Challis	Custer	Private	Challis
15I01201	Sugarloaf	Valley	BOR	Cascade
15I01301	Lost Valley	Adams	USFS	Tamarack
15I01401	Deadwood	Valley	USFS	Deadwood Reserv.
15I01501	High Valley	Valley	Private	High Valley
15I01601	Ponderosa	Valley	IDSPR	McCall
15I01701	Lyon Creek	Custer	Private	Bald Mountain
15I01801	McCall Airport	Valley	Private	McCall
15I01901	Warm Lake	Valley	USFS	Warm Lake
15I02001	Lemhi	Lemhi	BLM	West of Leadore
15I02101	Raspberry	Valley	USFS	Smiths Ferry
15I02201	Dworshak	Clearwater	USACOE	Dent
15I02301	Boulder Creek	Valley	Boise Cascade	Smith's Ferry
15I02401	Smith's Ferry	Valley	Boise Cascade	Smith's Ferry
15I02501	Carmen	Lemhi	Private	Salmon
15I02601	Paddy Flat	Valley	State of Idaho	Lake Fork
15I02701	Island/Hot Spring Park	?	?	?
15I02801	Benton Butte	Clearwater	USACOE	Bertha Hill
15I02901	River Mile 265	Lemhi	Private	Williams Lake
15I03001	Wagonhammer	Lemhi	Private	North Fork
15I03101	Struggle Gulch	Lemhi	BLM	Lemhi

Appendix A. Continued.

Nest No.	Name	County	Ownership	USGS Quad
16I00202	Powerline	Elmore	USFS	House Mountain
16I00301	Featherville	Elmore	USFS	Featherville
16I00402	Lake Lowell 1 (Canal)	Canyon	USFWS	Nampa
16I00501	Montour	Gem	Private	Montour
16I00601	Arrowrock	Elmore	USFS	Grape Mountain
16I00701	Camas Arm	Elmore	USFS	Anderson Ran. Dam
16I00702	Camas Arm 2	Elmore	USFS	Anderson Ran. Dam
16I00801	Grouse Creek	Elmore	USFS	Arrowrock Dam
16I00901	Lake Lowell 2 (P6)	Canyon	USFWS	Nampa
16I01001	Upper S. Fk. Arrowrock	Elmore	USFS	Grape Mountain
16I01101	Baker Ranch	Elmore	Private	Cathedral Rocks
17I00101	Silver Creek 1	Blaine	TNC	Gannet
17I00201	Silver Creek 2	Blaine	TNC	Gannet
17I00301	Carey Lake	Blaine	Private	Carey
18IS01/3	Hoffman	Bonneville	USFS	Alpine
18IS02	Williams Creek	Bonneville	USFS	Alpine
18IS03/3	Van Point	Bonneville	USFS	Palisades Dam
18IS04/1	Palisades Creek	Bonneville	Private	Swan Valley
18IS05/6	Swan Valley	Bonneville	BLM	Swan Valley
18IS06/3	Conant Valley	Bonneville	BLM	Conant Valley
18IS07/4	Pine Creek	Bonneville	BLM	Wheaton Mountain
18IS08/4	Dry Canyon	Bonneville	BLM	Wheaton Mountain
18IS09	Gormer Canyon	Bonneville	BLM	Wheaton Mountain
18IS10/1	Wolverine	Jefferson	Private	Heise SE
18IS11/5	Antelope Creek	Bonneville	BLM	Wheaton Mountain
18IS12	Cress Creek	Jefferson	BLM	Heise
18IS13/3	Confluence	Jefferson	BLM	Deer Parks
18IS14/2	Cartier Slough	Madison	BLM	Menan Buttes
18IS15	St. Anthony	Fremont	BLM	St. Anthony
18IS16	Singleton Pond	Fremont	Private	Lemon Lake
18IS17	Edwards Creek	Bonneville	USFS	Palisades Dam
18IS18	King Creek	Bonneville	Private	Etna
18IS19	Lower Fall River	Fremont	Private	Ashton
18IS20	Menan Buttes	Jefferson	BLM	Menan Buttes
18IS21	Upper Teton River	Teton	Private	Tetonia
18IS22	Market Lake	Jefferson	BLM	Lewisville
18IS23	Hog Hollow	Fremont	Private	Newdale
18IS24	Five Ways	Bonneville	Private	Wheaton Mountain
18IS25	Clarks Hill	Bonneville	Private	Heise SE
18IS26	Ririe Reservoir	Bonneville	IDFG	Lone Pine Ridge
18IS27	Annis Slough	Jefferson	BLM	Menan Buttes
18IS28	Hoffman West	Bonneville	Private	Alpine
18IS29	Van Point South	Bonneville	USFS	Palisades Dam
18IS30	Spring Hollow	Teton		Drummond
18IS31	Great Feeder Island	Jefferson	Private?	Heise
18IS32	Trail Creek	Teton	Private	Bates
18IS33	Danford	Teton	Private	Drummond

## Appendix A. Continued.

Nest No.	Name	County	Ownership	USGS Quad
18IS35	Table Rock Canyon	Bonneville	BLM?	Heise SE
18IS34	Fun Farm Bridge	Fremont	Private	Newdale?
18IC01	Kerr Canyon	Fremont	BLM	Ashton
18IC02/2	Pine Haven	Fremont	USFS	Last Chance
18IC03/1	Box Canyon	Fremont	USFS	Island Park
18IC04/2	Coffee Pot	Fremont	USFS	Island Park
18IC05	Bishop Lake	Fremont	USFS	Icehouse Creek
18IC06/2	Sheridan Reservoir	Clark	Private	Sheridan Reservoir
18IC07/2	Lucky Dog	Fremont	USFS	Buffalo Lake
18IC08	Henry's Lake	Fremont	BLM	Big Springs
18IC09/2	Staley Springs	Fremont	USFS	Targhee Peak
18IC10	Hale Canyon	Fremont	BLM	Ashton
18IC11	Moonshine	Fremont	USFS	Bishop Mountain
18IC12	Last Chance	Fremont	USFS	Last Chance
18IC13	IP Bills	Fremont	IDL	Island Park Dam
18IC14/2	Flat Rock	Fremont	USFS	Big Springs
18IC15/2	Riverside	Fremont	USFS	Last Chance
18IC16	Snake River Butte	Fremont	USFS	Snake River Butte
18IC17	Buffalo River	Fremont	USFS	Island Park Dam
18IC18	Big Bend	Fremont	Private	Last Chance
18IC19	Upper Mesa Falls	?	?	?
18IC20	La Belle (38)	?	?	?
18IC21	Lowder Slough	?	?	?
20I00101	Ferry Butte	Bingham	USFS	Rockford
20I00201	Kimball	Bingham	Private	Firth
20I00301	McTucker	Bingham	BLM	Pingree
20I00401	Blue Lakes	Jerome	Private	Twin Falls
20I00501	Milner Dam	Jerome	Private	Milner
20I00601	Old Fort Hall	Bingham	FHIR	Pingree
20I00701	Spring Island	Caribou	BLM	Henry
20I00801	Rose	Bingham	Private	Rose
20I00901	Pingree	Bingham	Private	Pingree
20I00902	Power Line	Bingham	Private	Pingree
20I01001	Grays Lake	Caribou	USFWS	Wayan West
20I01101	Alexander	Caribou	USFS	Alexander
20I01201	SE Gooding	Gooding	Private	Niagara Springs
20I01202	Carrigan	Bingham	Private	Moreland
20I01301	Lake Walcott (Bird Is.)	Cassia	USFWS	Lake Walcott East
20I01401	Ferry Butte 2	Bingham	BLM	Rockford
20I01501	Lucia	Franklin	Private	Riverdale
20I01601	Pegram	Bear Lake	Private	Pegram

Submitted by: *Rex Sallabanks*  
Rex Sallabanks  
Nongame Bird Biologist and PIF Coordinator

Approved by:

**IDAHO DEPARTMENT OF FISH AND GAME**

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Jim Unsworth  
Chief, Bureau of Wildlife

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Chuck Harris  
Nongame Program Manager