

2014 IDAHO WOLF MONITORING PROGRESS REPORT



Photo by IDFG

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EXECUTIVE SUMMARY

During January 1995 and January 1996, the U.S. Fish and Wildlife Service (USFWS) reintroduced 66 gray wolves to central Idaho and Yellowstone National Park as part of efforts to restore populations of endangered gray wolves (*Canis lupus*) in the northern Rocky Mountain states of Idaho, Montana, and Wyoming. In May 2011, the USFWS removed (delisted) gray wolves in the Northern Rocky Mountain Distinct Population Segment, excluding Wyoming, from the protections of the Endangered Species Act, and wolf management responsibility was transferred to the Idaho Department of Fish and Game and Montana Fish, Wildlife and Parks.

During March 2002, the Idaho Legislature adopted the *Idaho Wolf Conservation and Management Plan* (2002 Wolf Plan). This plan guides management of wolves in Idaho. The State of Idaho and Nez Perce Tribe monitored wolves cooperatively in 2014 through a Memorandum of Agreement signed in 2005.

Wolves range in Idaho from the Canadian border south to the Snake River Plain, and from the Washington and Oregon borders east to the Montana and Wyoming borders. Dispersing wolves are occasionally reported in previously unoccupied areas.

Biologists documented 104 packs within the state at the end of 2014. In addition, there were 23 documented border packs counted by Montana, Wyoming, and Washington that had established territories overlapping the Idaho state boundary. Additional packs are suspected but not included due to lack of documentation.

Determination of breeding pair status was made for 43 packs. Of these, 26 packs met breeding pair criteria at the end of 2014, and 17 packs did not (Table 1). No determination of breeding pair status was made for the remaining 61 packs. Reproduction (production of at least 1 pup) was documented in a minimum 55 packs.

The year-end population for documented packs, other documented groups not qualifying as packs, and lone wolves was estimated at 770 wolves.

Mortalities of 360 wolves were documented in Idaho in 2014, 113 wolves (24%) less than in 2013. Human-caused mortality accounted for 342 of 344 (99%) wolf mortalities during 2014 where cause of death could be determined. Legal harvest was 256 wolves, agency removal and legal take was 67 wolves, and mortality from other human causes was 19 wolves. Sixteen wolf mortalities were attributed to unknown causes and two were attributed to natural causes.

USDA APHIS Wildlife Services agents classified 43 cattle, 100 sheep, 3 dogs, and 1 horse as confirmed wolf depredations in 2014. Ten cattle, 7 sheep, and 1 dog were classified as probable wolf depredations.

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Wolf monitoring and management in Idaho is a cooperative effort between the State of Idaho, Nez Perce Tribe (NPT), USDA APHIS Wildlife Services, and the U.S. Fish and Wildlife Service. The NPT's Executive Committee and Wildlife Management Division Director Keith Lawrence provided support and input. Dustin Miller, Administrator of the Governor's Office of Species Conservation, provided valuable administrative support. Todd Grimm, George Graves, and all WS field personnel worked to resolve wolf-livestock conflicts. U.S. Fish and Wildlife Service personnel Mike Jimenez, Brian Kelly, Mike Carrier, and Hilary Cooley provided support and assistance with wolf monitoring.

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INTRODUCTION

The U.S. Fish and Wildlife Service (USFWS) established 3 recovery areas (Northwest Montana, Central Idaho, and the Greater Yellowstone Area) to recover endangered gray wolf (*Canis lupus*) populations across the Northern Rocky Mountain (NRM) states of Idaho, Montana, and Wyoming (Figure 1). The USFWS released 35 wolves in central Idaho and 31 wolves in Yellowstone National Park during winters of 1995 and 1996. Biological recovery goals were met in the NRM states in 2002.

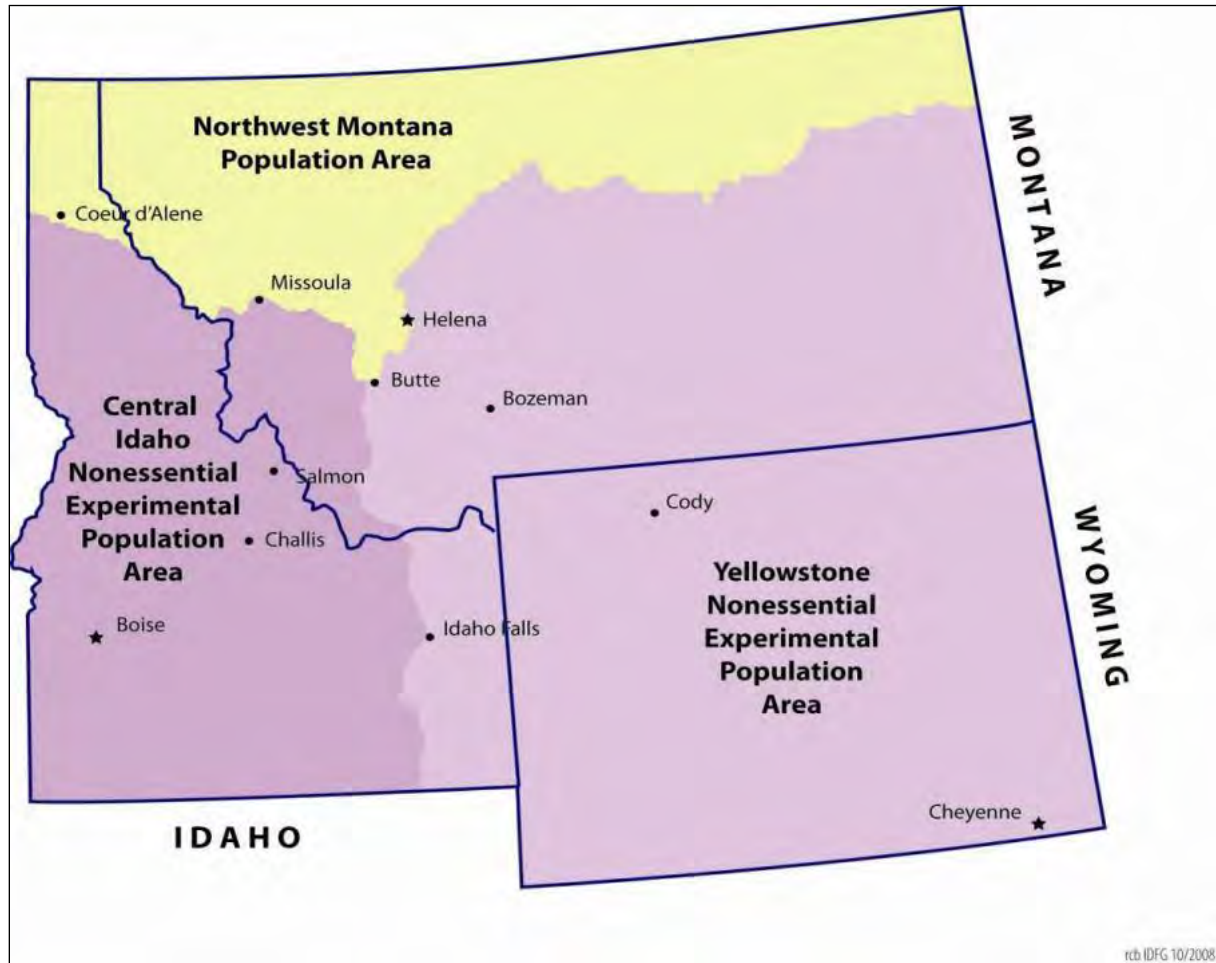


Figure 1. Recovery areas established by the U.S. Fish and Wildlife Service to restore gray wolf populations in the northern Rocky Mountains of Idaho, Montana, and Wyoming.

In March 2002, the Idaho Legislature adopted the *Idaho Wolf Conservation and Management Plan* (Idaho Legislative Wolf Oversight Committee 2002). The USFWS approved the 2002 Wolf Plan in January 2004.

The State of Idaho became the designated agent of the USFWS in January 2006, and assumed day-to-day monitoring and management authority for wolves in Idaho.

In February 2008, the USFWS initiated the process to delist wolves by creating an NRM Distinct Population Segment (DPS; Figure 2) and published the delisting proposal in the Federal Register. The NRM DPS included all of Idaho, Montana, and Wyoming, eastern portions of Washington and Oregon, and a small part of northern Utah.



Figure 2. Northern Rocky Mountain Gray Wolf Distinct Population Segment boundaries established by the U.S. Fish and Wildlife Service in 2008 and 2009.

The delisting rule became final in March 2008 and the State of Idaho assumed full management responsibility for wolves. Delisting was challenged in federal court by a coalition of groups and in July 2008, a ruling returned Endangered Species Act (ESA) protections to wolves in the NRM DPS. The State of Idaho continued as the designated agent.

The USFWS published a second delisting rule in the federal register in January 2009. This delisting proposal was finalized in May 2009 and the State of Idaho again assumed full management responsibility for wolves. This delisting rule was also challenged in federal court. Idaho held its first regulated wolf hunting season from fall 2009 through spring 2010.

A federal judge ordered in August 2010 that the rule to delist wolves be vacated, which restored ESA protections to wolves (USFWS 2010). Subsequently, on April 15, 2011, President Obama signed the 2011 federal appropriations bill that included language that directed the Secretary of the Interior to reissue the 2009 delisting rule. As a result of this action, wolves were again delisted in Idaho, Montana, eastern Washington, eastern Oregon, and north-central Utah. Wolf management responsibility returned to the State of Idaho on May 5, 2011.

For a more comprehensive chronology of events related to wolf recovery, conservation, and management in Idaho and the NRM, see:

<http://fishandgame.idaho.gov/public/wildlife/wolves/?getPage=161>

Wolf monitoring and management activities have been reported by Wolf Management Zone (WMZ or Zone), since 2008. The Idaho Department of Fish and Game (IDFG) divided the Southern Mountains Zone into 2 zones in 2011 (Southern Mountains, Beaverhead) and the Upper Snake Zone was renamed the Island Park Zone. There are currently 13 WMZs (Figure 3).

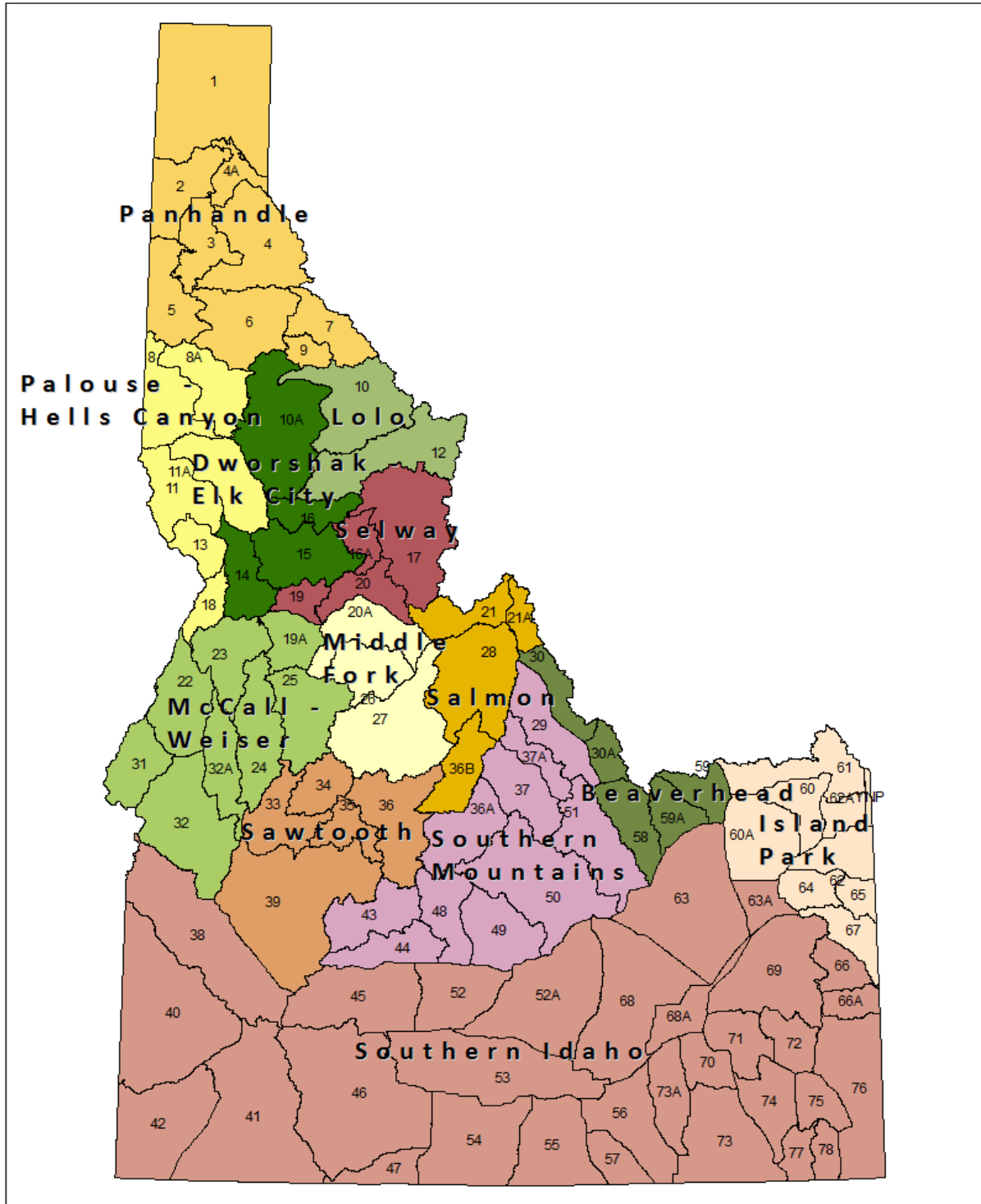


Figure 3. Idaho Wolf Management Zones. Wolf Management Zones were created by combining one or more elk management zones with similarity in wolf population, prey base, and current or potential conflicts with livestock and ungulates.

STATEWIDE SUMMARY

Idaho has a diverse landscape comprised of large expanses of varied habitats which support populations of elk (*Cervus elaphus*), mule deer (*Odocoileus hemionus*), white-tailed deer (*Odocoileus virginianus*), moose (*Alces alces*), and other wolf prey species. Central Idaho includes 3 contiguous wilderness areas: the Selway-Bitterroot, Frank Church-River of No Return, and Gospel Hump wildernesses. These wilderness areas encompass almost 4 million acres (1.6 million ha), the largest block of wilderness in the lower 48 states. Outside of wilderness areas, land ownership and human use patterns result in varying levels of potential human conflict with wolves. Southern Idaho includes the vast Snake River Plain, which is predominantly private agricultural land and also contains most of Idaho's urban centers. Three major mountain chains and 2 large river systems intersect these very different landscapes, many of which are managed for multiple uses. A moisture gradient also influences habitats of both wolves and their prey, with maritime climates in the north supporting western red cedar-western hemlock (*Thuja plicata*, *Tsuga heterophylla*) vegetation types, transitioning into continental climates of Douglas-fir (*Pseudotsuga menziesii*) and ponderosa pine (*Pinus ponderosa*) to the south. Elevations vary from 1,500 feet (457 m) to just over 12,000 feet (3,657 m). Annual precipitation across the state varies from less than 8 inches (20 cm) to almost 100 inches (254 cm).

Wolf Population Monitoring

Information presented in this report was obtained primarily from a concerted undertaking by State and Tribal biologists collecting important demographic information (reproduction, mortality, pack size, breeding pair status, etc.) through intensive field surveys, capture and radiocollaring, and year round monitoring.

Wolf observations from hunters afield have also proven to be a reliable means of enumerating wolf packs when analyzed in a patch occupancy modeling framework (Ausband et al. 2014). Data collected from harvested wolves has provided confirmation of pack presence, particularly useful for remote areas where traditional monitoring methods were not feasible due to access difficulties. DNA sampling (tissue or scat) has provided information on summer pack sizes, verification of reproduction, apparent survival, and other relevant demographic information.

Public sightings and confirmed depredations also facilitated the confirmation of wolf activity by directing agency personnel efforts to areas in need of further investigation. In 2014, 193 wolf observations were reported through the IDFG online wolf reporting system. Combining these sources of information allowed for a greater understanding of the wolf population than would have been achieved otherwise.

Population Status

The year-end estimate for documented packs, other documented groups of wolves, and associated lone wolves was 770 (Figure 4, and see Appendix A), well above the minimum of 150 wolves required in the 2009 de-listing rule (USFWS 2009). Based on additional data collected during 2014, the 2013 population estimate for documented packs, other documented groups, and lone wolves was revised from 659 to 684 wolves.

Number of Packs Documented

During 2014, 119 Idaho wolf packs were documented at some point during the year. The number of packs documented year-end was 104 (Table 1). Twelve new packs were documented during 2014. Fifteen previously documented packs were dropped by the end of the year because either there was no more than one wolf left in the pack, or there was a lack of documentation within the previous two years that the pack remained extant.

Of the 12 newly documented packs, 5 packs were retroactively added to 2013 totals based on evidence of multiple adults or reproductive confirmation via harvested pups (typically from tooth cementum results) from the 2013 litter-year. One pack (Rattlesnake) was retroactively dropped from 2013 totals when new location data confirmed an adjacent documented pack (Steel Mountain) accounted for the activity in question.

Pack Size

Mean observed pack size at the end of December 2014 was 6.5 wolves per pack ($n = 27$), 20% higher than the 5.4 wolves per pack during 2013, but also 20% less than the pre-harvest average of 8.1 wolves per pack (2005-2008 average). The larger 2014 average pack size was a prominent influence on the increase in the number of wolves estimated in documented packs in 2014.

Reproduction

A minimum of 55 packs were confirmed to have produced a minimum of 173 wolf pups, with litter sizes ranging from 1-8 pups. The mean litter size for 2014 was 4.7 pups ($n = 18$), similar to previous years.

Breeding Pair Criteria

The number of reproductive wolf packs (or pairs) in Idaho is far higher than the number of wolf packs documented to meet the federal breeding pair criteria. Under the federal definition, a pack meeting breeding pair criteria consists of “an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth” (USFWS 2009).

Breeding pair status was evaluated considering all data collected for a pack from spring through winter. Breeding pair status was determined by either harvest or capture of ≥ 2 pups after December 31, 2014 from a documented pack with 2 adults of opposite sex present at end of year, or summer verification (via visual/aural/remote camera observations or DNA analysis) of ≥ 2 pups and 2 adults of opposite sex and one or more of the following: late fall/winter aerial, ground or trail camera observations by IDFG/NPT or cooperating agency biologists consistent with the persistence of ≥ 2 pups and 2 adults of opposite sex; late fall/winter verified public observations consistent with existing pack information and indicating the persistence of ≥ 2 pups and 2 adults of opposite sex; and/or no documented mortality indicating < 2 pups or < 2 adults of opposite sex.

Determination of breeding pair status was made for 43 packs. Of these, 26 packs (60%) met breeding pair criteria at the end of 2014 (Table 1), and 17 packs did not. No determination of breeding pair status could be made for the remaining 61 packs.

The probability that a pack meets breeding pair criteria increases as pack size increases (Mitchell et al. 2008). Consistent with this relationship, the proportion of packs meeting the breeding pair criterion decreased noticeably as pack size diminished after harvest began in 2009 (Figure 5). The increase in breeding pairs detected during 2014 was associated both with an increase in mean pack size, and with an increase in field effort during 2014.

Distribution

Wolf distribution was assessed directly through monitoring radiocollared wolves, field investigations, and wolf observation reports received from the public. We monitored 133 radiocollared wolves at least once during 2014 that originated from, or had established residence within Idaho, including 60 wolves captured and radiocollared during the year. Fifty-five radiocollared wolves died or were suspected to have died during the year, and 4 wolves were either missing or had non-functioning collars at year-end. Seventeen wolves with functioning radiocollars were harvested during 2014.

Wolves were distributed across the state from the Canadian border, south to the Snake River Plain, and from the Washington and Oregon borders east to the Montana and Wyoming borders (Figure 6). In addition to the 104 documented packs present in Idaho at the end of 2014, there were 23 documented border packs counted by Montana, Wyoming, and Washington that had established territories overlapping the Idaho state boundary. Territories of most wolf packs were predominantly on public lands managed by the U.S. Forest Service (USFS).

Occupancy modeling provides a useful methodology for estimating distribution using multiple survey methods in a robust sampling design (MacKenzie et al. 2002). To further evaluate distribution of wolves in Idaho during 2013, a single-season occupancy model was developed using hunter observations ($n = 4,656$) and radio-telemetry data ($n = 36$ packs) with 9 covariates: forest cover, elevation, slope, antlered deer harvest density, antlered elk harvest density, hunter days expended, cattle density, sheep density, and month. We estimate 61% of Idaho ($132,162 \text{ km}^2$) was used by groups or packs of 2+ wolves during fall 2013.

Table 1. Number of wolves detected, documented packs, and other documented wolf groups, pack reproductive status, known dispersal, documented mortality by cause, and wolf-caused depredations within Idaho Wolf Management Zones, 2014.

	Panhandle	Palouse- Hells Canyon	Dworshak- Elk City	Lolo	Selway	McCall- Weiser	Middle Fork	Salmon	Sawtooth	Southern Mtns	Beaver- head	Island Park	Southern Idaho	Total
Minimum number wolves detected ^a	58	6	50	38	7	8	0	37	36	18	4	10	0	272
Documented packs														
No. during year	23	4	18	10	5	11	7	8	14	10	2	6	1	119
No. dropped	3	0	1	4	0	0	0	0	4	2	1	0	0	15
No. at end of year ^b	20	4	17	6	5	11	7	8	10	8	1	6	1	104
Other documented groups ^c														
No. during year	2	0	1	5	0	1	0	1	3	2	0	0	0	15
No. dropped	1	0	1	0	0	1	0	0	3	0	0	0	0	6
No. at end of year ^c	1	0	0	5	0	0	0	1	0	2	0	0	0	9
Reproductive status														
Minimum no. pups produced(died)	48(8)	8	24(5)	8(4)	4(1)	11(4)	2(2)	25(5)	24(7)	9(3)	0	7(5)	3(3)	173(47)
No. of reproductive packs detected	11	2	11	3	2	3	1	6	7	4	0	4	1	55
No. of breeding pairs ^d	4	1	7	1	1	1	0	4	4	2	0	1	0	26
Known dispersal	2	1	2	4	0	0	0	2	2	1	0	1	0	15
Documented mortalities														
Natural	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Control ^e	0	0	4	23	0	7	3	4	11	10	0	0	5	67
Harvest	85	3	32	18	16	19	15	15	17	22	0	12	2	256
Other human-caused ^f	6	0	4	0	0	1	1	0	2	1	1	3	0	19
Unknown	3	0	0	0	0	1	0	2	6	2	0	1	1	16
Total mortalities	94	3	40	41	16	28	19	21	38	35	1	16	8	360
Confirmed (probable) wolf-caused losses														
Cattle	0	0	5(3)	0	0	16(3)	0	9	3(2)	10(2)	0	0	0	43(10)
Sheep	0	0	0	0	0	12(2)	0	0	59(4)	9(1)	0	8	12	100(7)
Dogs	0	0	0	0	0	0	0	0	1	0	0	2(1)	0	3(1)
Other	0	0	0	0	0	0	0	0	0	1	0	0	0	1

^a Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^b Number remaining extant at end of 2014 after subtracting those dropped via harvest, agency control, other human-related, or natural cause, and those dropped due to lack of verified evidence for the preceding 2 years.

^c Other documented wolf groups include known and suspected mated pairs or verified groups of wolves that do not meet Idaho's definition of a documented pack.

Table 1. Continued.

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth."

^e Includes agency lethal control and legal or State-authorized take by landowners.

^f Includes all other human-related deaths exclusive of control and harvest.

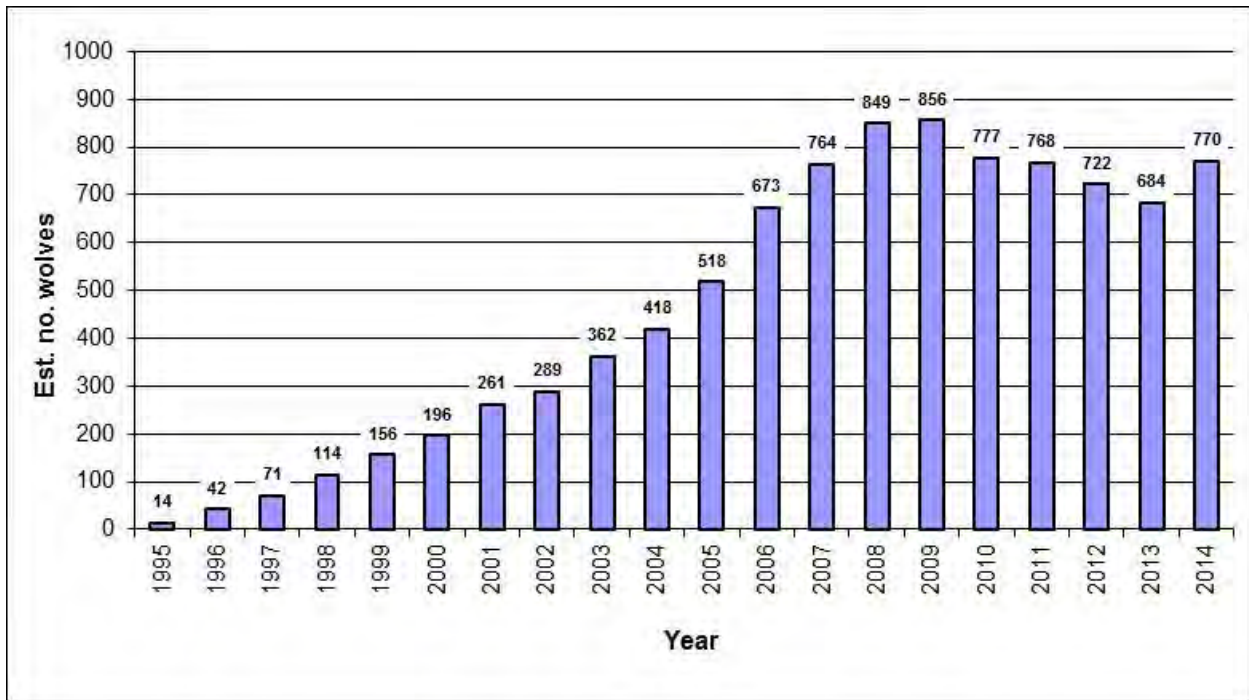


Figure 4. Estimated number of wolves in documented packs, other documented groups, and lone wolves in Idaho at year-end, 1995-2014. Annual numbers were based on best information available and were retroactively updated as new information was obtained. See Appendix A for the population estimation method.

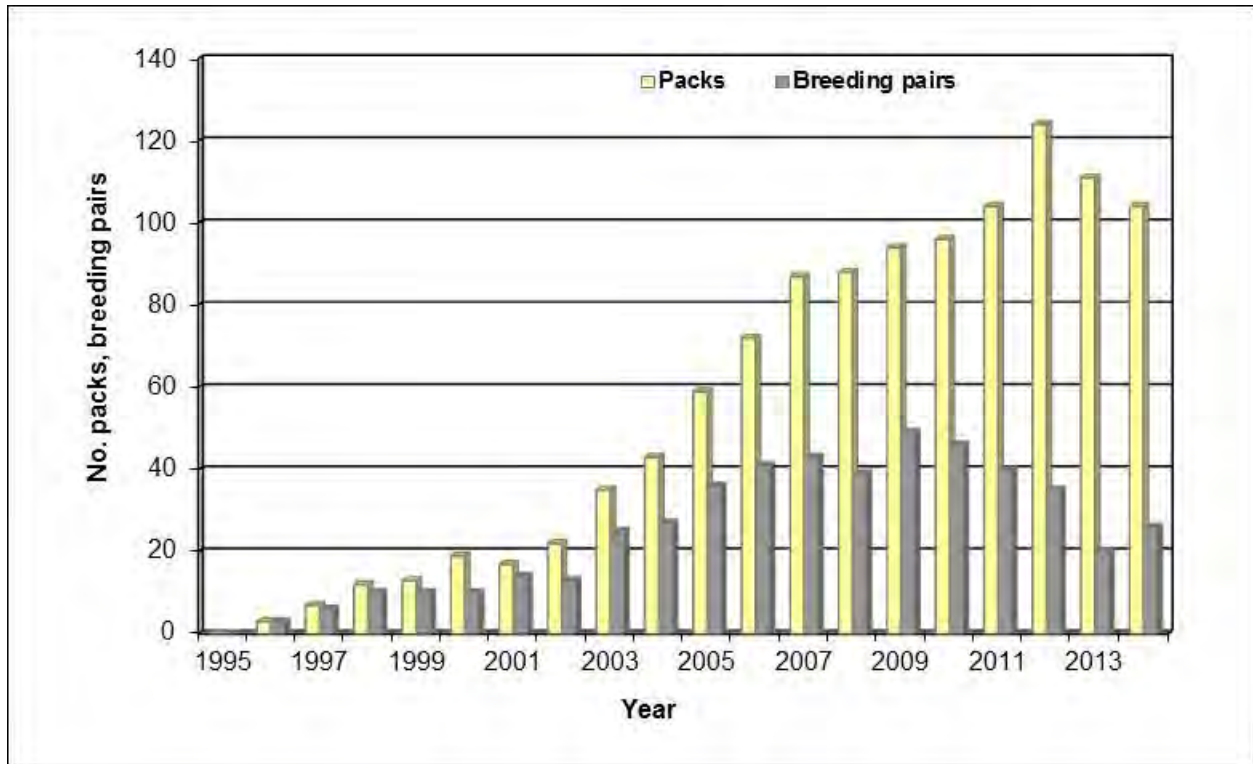


Figure 5. Number of documented wolf packs and documented breeding pairs in Idaho, 1995-2014. Annual numbers were based on best information available and were retroactively updated as new information was obtained.

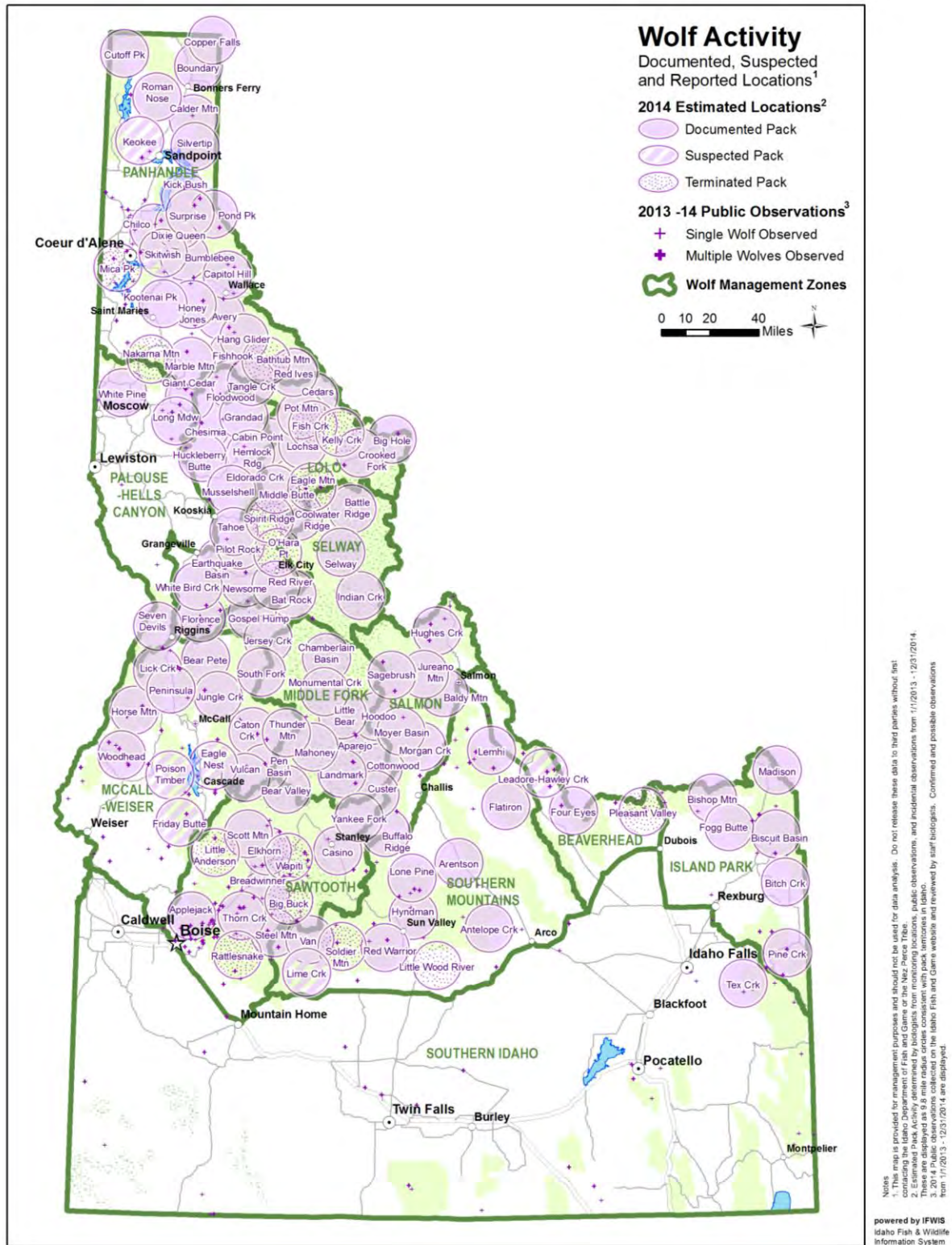


Figure 6. Distribution of documented and suspected wolf packs in Idaho, 2014.

Mortality

We documented 360 wolf mortalities in 2014, a 24% decrease from 2013 (Table 1, Figure 7). Nearly all documented mortalities of known cause ($n = 344$) were human-caused ($n = 342$; 99%). Of the human-caused mortalities, 256 wolves were harvested by hunters and trappers, a 28% decrease from 2013.

Sixty-seven wolves were lethally controlled, and the remaining 19 wolf mortalities were attributed to other human-caused sources (illegal take = 13; wounding loss/illegal take = 3; capture-related = 2; vehicle = 1). Forty-two of 67 wolves were lethally controlled by USDA APHIS Wildlife Services (WS) or IDFG-authorized agents in response to depredations, or were killed by livestock producers/landowners in defense of property. The remaining 25 wolves were killed by IDFG-authorized agents on behalf of IDFG to benefit prey species. Fewer wolves were lethally removed by WS and livestock producers in Idaho in 2014 than in 2013 ($n = 42$ and $n = 80$, respectively), representing a 48% decrease (Figure 8).

Remaining wolf mortalities were attributed to unknown causes ($n = 16$). These mortality figures demonstrate patterns in known mortality, but do not represent all mortality.

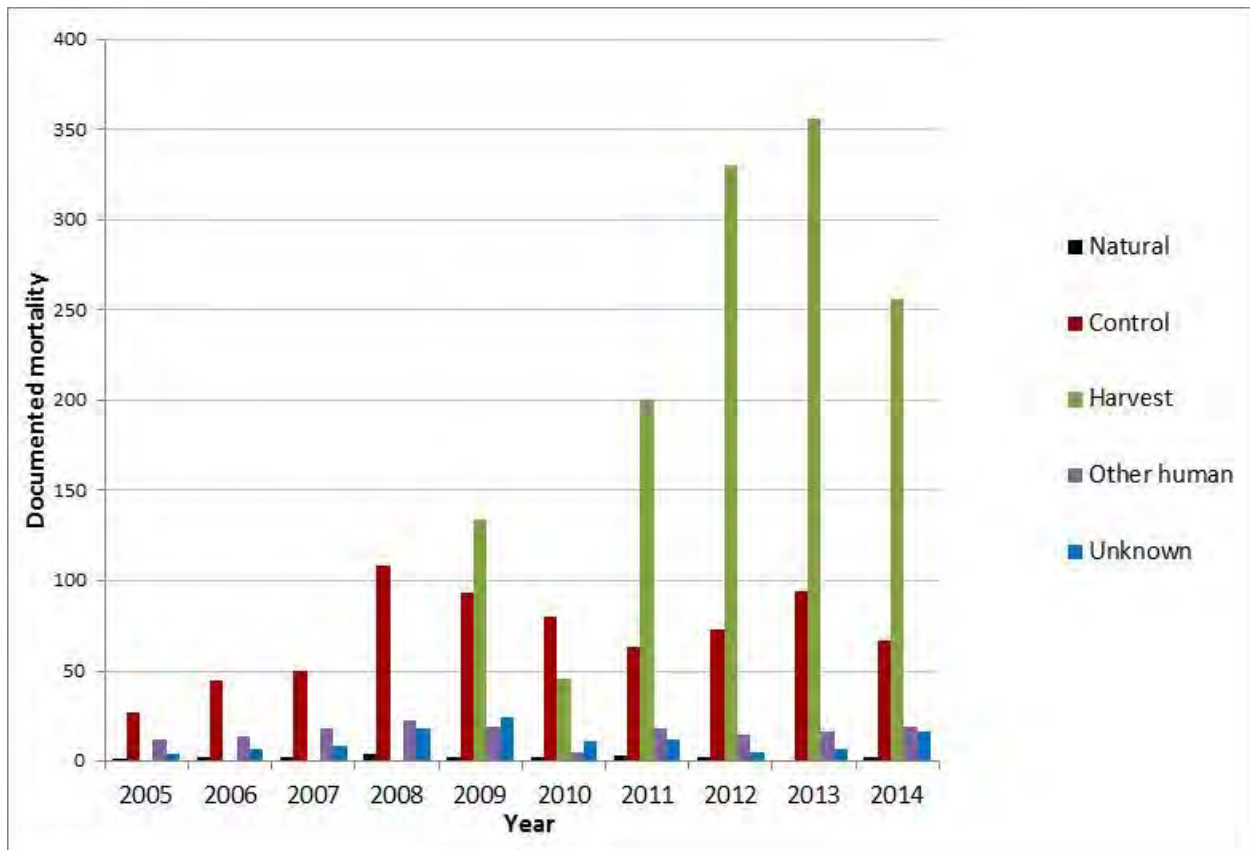


Figure 7. Annual documented wolf mortality by cause, 2005-2014.

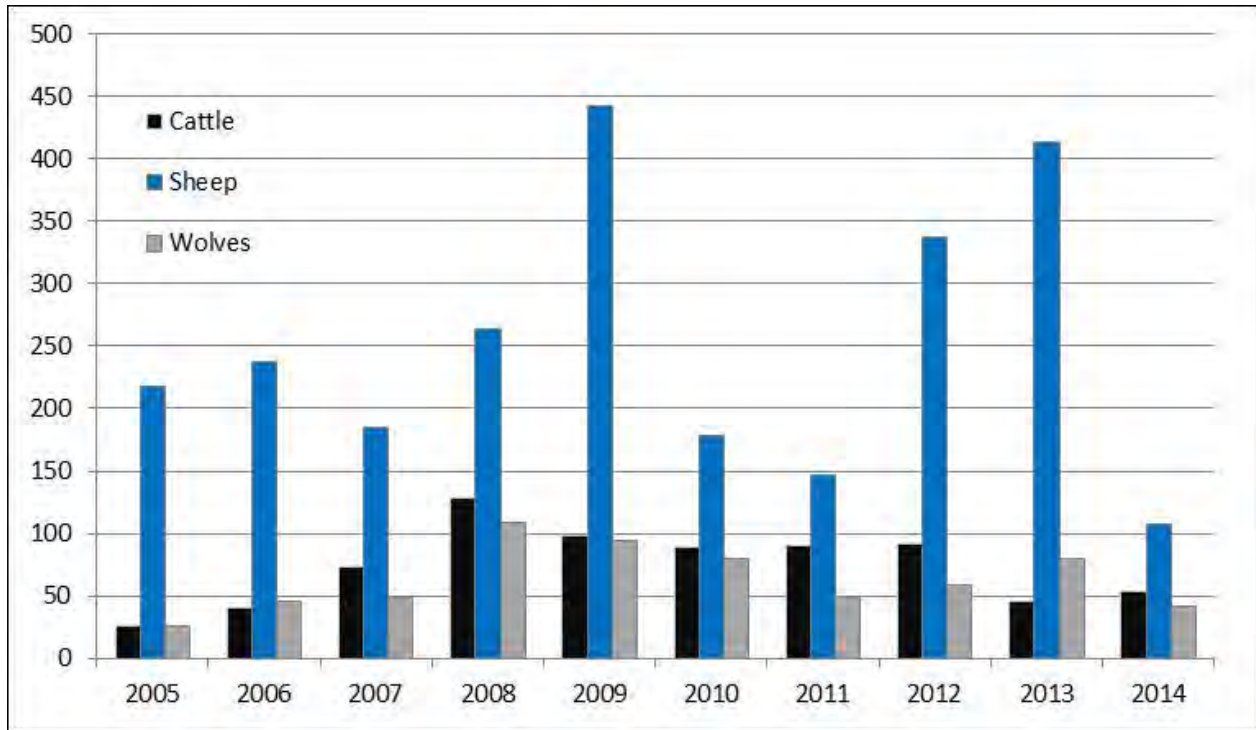


Figure 8. Number of confirmed and probable cattle and sheep killed by wolves, and corresponding number of wolves removed through agency control and legal take (exclusive of harvest) by private citizens, 2005-2014.

Between May and September 2014, 31 pups were fitted with light-weight (74 gram) expandable vhf collars. We confirmed 9 collars were shed or chewed off shortly after deployment, leaving 22 pups with viable collars. At the end of 2014, 7 collared pups were confirmed alive, 10 pups were confirmed dead, and 5 pups were of undetermined status (the collar was not detected or was transmitting a mortality signal but had not yet been recovered).

Two of the 10 mortalities were attributable to harvest. Cause of death for the remaining 8 mortalities could not be determined because of decomposition.

Wolf Depredations

USDA APHIS Wildlife Services agents recorded 53 cattle, 107 sheep, 4 dogs, and 1 horse that were classified as confirmed or probable wolf depredations (killed by wolves) during the 2014 calendar year (Table 1; T. Grimm, USDA APHIS Wildlife Services, personal communication).

Confirmed and probable wolf depredations on cattle increased by 15% in 2014 compared to 2013 ($n = 53$ and $n = 46$, respectively; Figure 8). Wolf depredation incidents (including cases of injured cattle) and cattle losses were highest in the McCall-Weiser Zone (Figure 9).

Confirmed and probable wolf depredations on sheep decreased 74% in 2014 compared to 2013 ($n = 107$ and $n = 413$, respectively; Figure 8). Wolf depredation incidents (including cases of

injured sheep) and sheep losses occurred primarily within the Sawtooth and McCall-Weiser Zones (Figure 10).

During 2014, 42 wolves were killed by WS, or killed legally by livestock producers or private citizens to resolve wolf conflicts with livestock or dogs in Idaho (Figure 10).

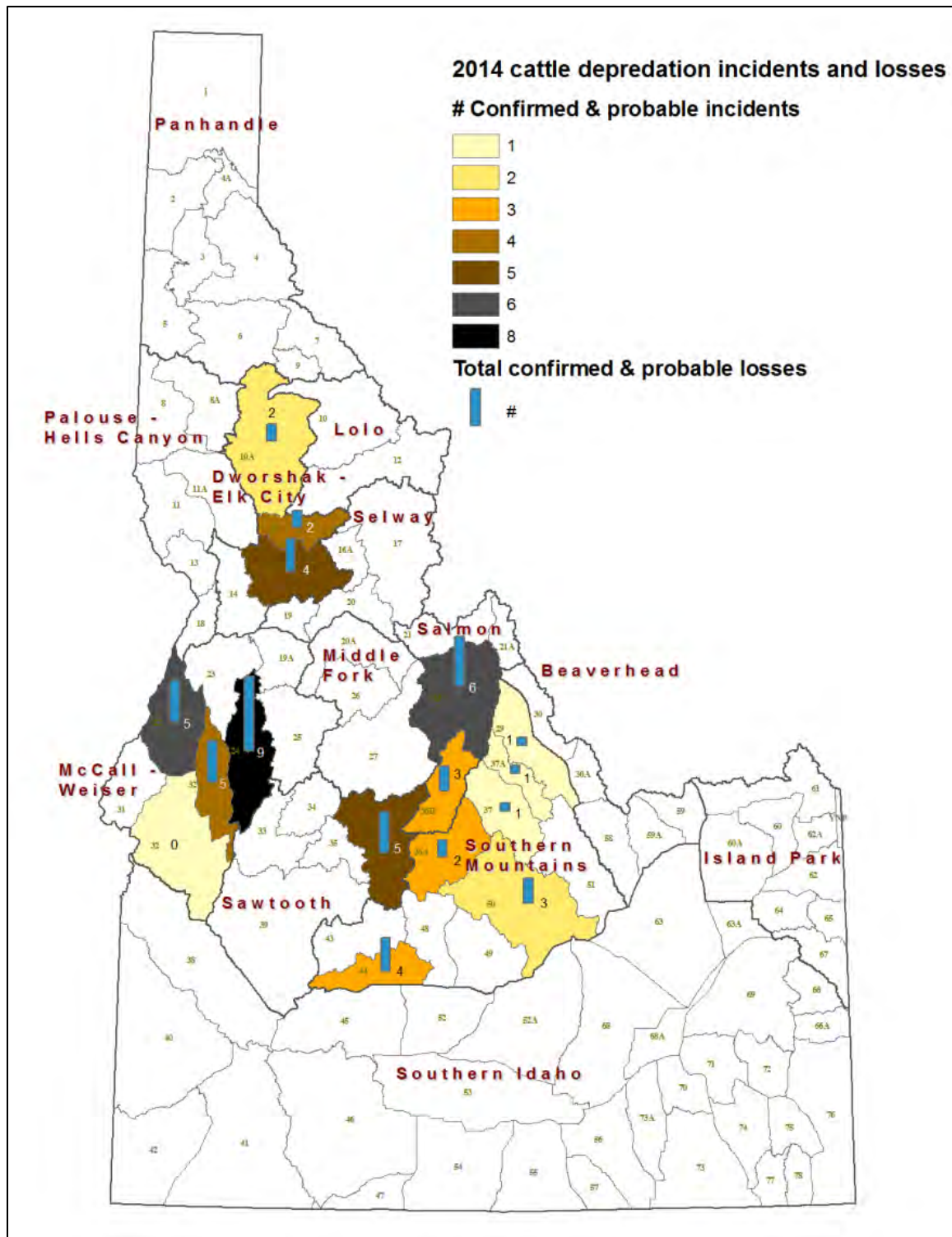


Figure 9. Number of confirmed and probable cattle depredation incidents (including injured cattle) and corresponding losses in Idaho attributed to wolves by Game Management Unit and Wolf Management Zone, 2014.

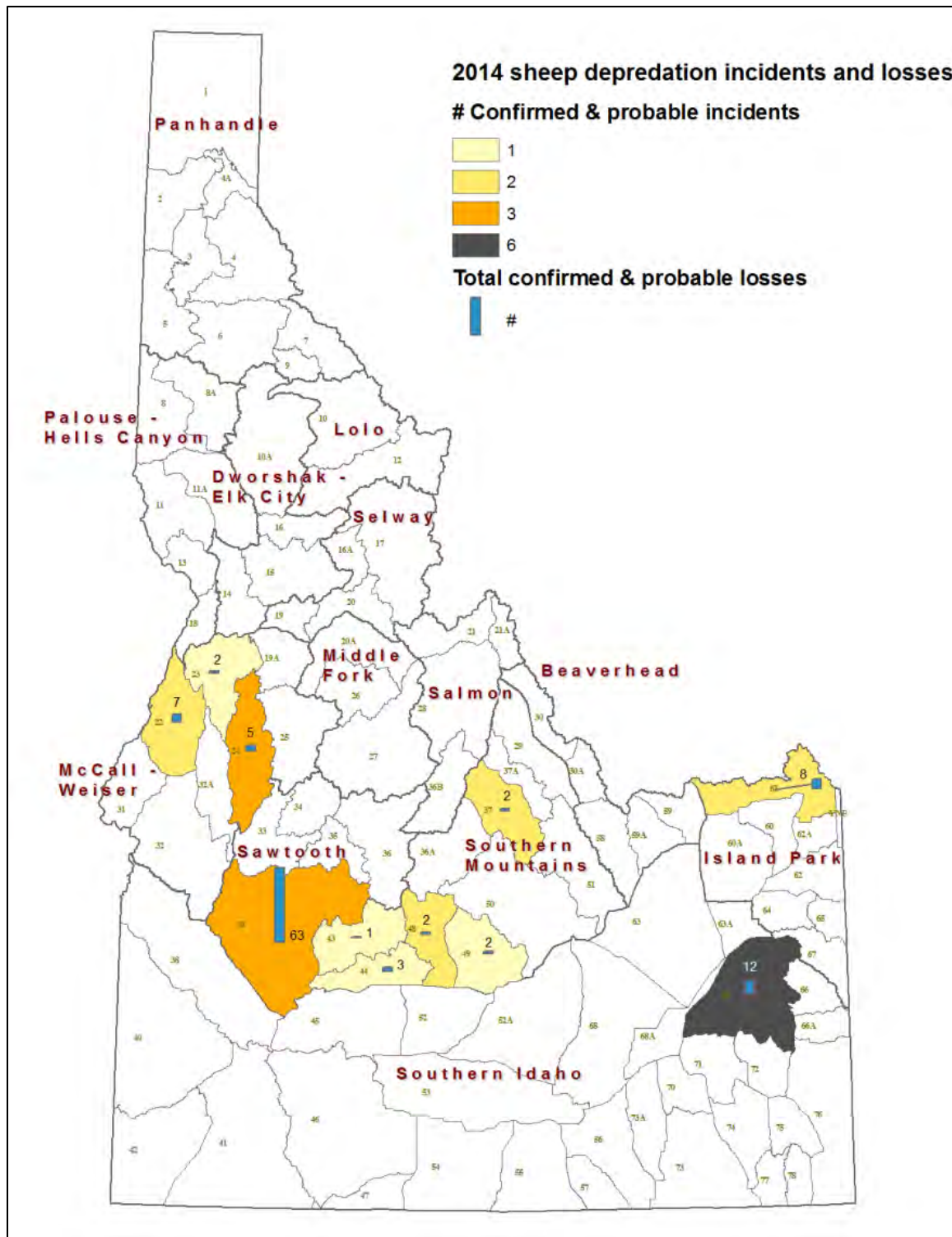


Figure 10. Number of confirmed and probable sheep depredation incidents (including injured sheep) and corresponding losses in Idaho attributed to wolves by Game Management Unit and Wolf Management Zone, 2014.

Research

The IDFG, NPT, and other organizations continued to coordinate and support scientific research assisting in long-term wolf monitoring efforts, conservation, and management.

Effects of wolf predation on elk and moose populations

During 2014, IDFG continued long-term efforts to measure the effects of wolf predation and habitat on elk and moose populations within Idaho. Project objectives include: 1) determining survival, cause-specific mortality, pregnancy rates, and body condition for radiocollared animals; 2) monitoring wolf distribution and abundance within study areas; 3) developing habitat condition and trend maps for Idaho; and 4) developing a model set to predict elk mortality across a range of wolf:elk ratios and habitat/environmental conditions. This project is focused on 2 intensive areas (Lowman study area in the Sawtooth Zone and North Fork Clearwater River study area in the Lolo Zone) where detailed information regarding wolf and ungulate interactions is being gathered via satellite radiocollars.

Data collection began in the Lowman study area in 2008 and in the North Fork of the Clearwater River study area in 2009. Data collection was completed in the Lowman area in 2013, when satellite radiocollars were recovered. During 2014, IDFG researchers captured 5 wolves and 29 elk including 10 cows and 19 calves in the North Fork study area. All were fitted with GPS radio collars and we obtained various measurements and biological samples from each. These data will improve our understanding of predator/prey dynamics in contrasting landscapes. This research is providing contemporary data regarding survival, important mortality factors, and productivity of elk populations that will help biologists identify and evaluate specific predator and habitat management actions necessary to address ungulate population objectives.

Outreach

IDFG, NPT and cooperating agency biologists provided wolf-specific information and education programs to high school and college students, community and professional groups, wildlife biologists, cooperating agency personnel, the Fish and Game Commission, the Idaho Legislature, Idaho Master Naturalists, University of Idaho students and faculty, sportsmen's clubs, and outfitters and guides. Additionally IDFG staff produced 2 public safety videos and an informational brochure related to avoiding traps while hiking with dogs and releasing dogs from traps. We participated in dozens of interviews with local radio, newspaper, and TV outlets and talked to members of the public via telephone, email, and in person. Also, news articles were released by IDFG regularly that summarized noteworthy items about wolves. Wolf issues continued to be an interesting topic for the public; and television, radio, and print media contacted program staff often to obtain wolf information and agency perspective.

The Fish and Game Commission established wolf trapping seasons that were first implemented during the 2011-2012 wolf harvest year. Those wishing to participate in the trapping seasons were required to attend a wolf trapper education class before purchasing wolf trapping tags. Program biologists, in collaboration with regional staff and volunteers, developed and delivered a curriculum for the classes. Classes focused on trapping ethics, trapping regulations, wolf biology and conservation, avoiding non-target captures, equipment selection, and trapping and

snaring techniques. Fourteen classes were held during the 2014-2015 season and 270 trappers were certified.

PANHANDLE WOLF MANAGEMENT ZONE

GAME MANAGEMENT UNITS (GMUs) 1, 2, 3, 4, 4A, 5, 6, 7, 9

Background

The Panhandle Zone is predominantly timbered and consists of public forests managed by state and federal agencies, as well as large areas of private corporate timber holdings. Timber harvest is the predominant land use, but large tracts of roadless designation or remote access are scattered throughout the area. White-tailed deer, elk, mule deer, and moose occur throughout the zone. Livestock grazing is minimal on public properties but exists on many private lands. The climate is strongly influenced by Pacific maritime patterns that produce heavy late fall and winter precipitation and moderate temperatures. Typical spring weather has prolonged periods of rain, while summer months are warm and dry.

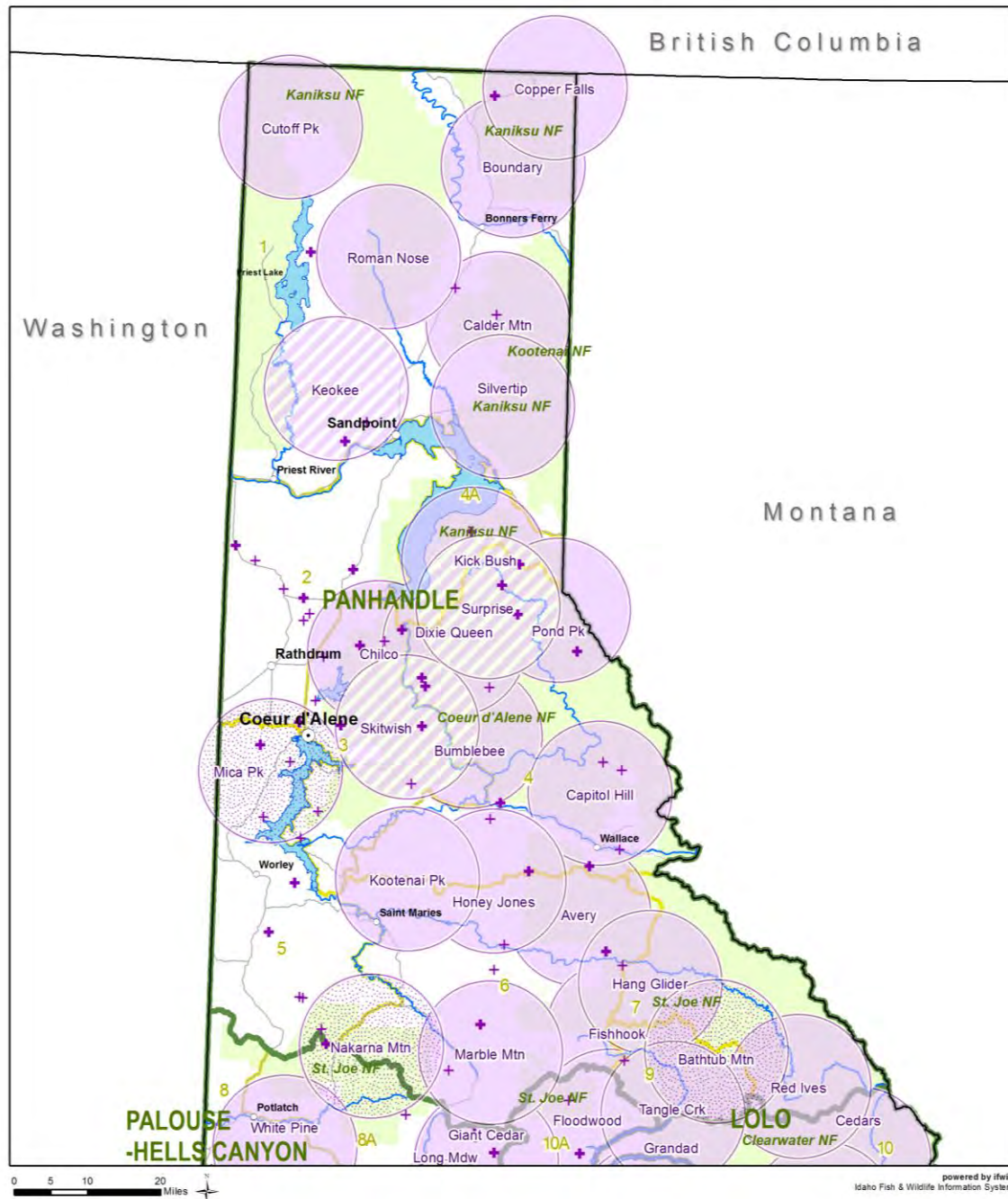
Monitoring Summary

The Panhandle Zone was occupied by 20 documented packs (including 4 Idaho border packs), and 1 other documented group at the conclusion of 2014 (Figure 11, Table 2); 3 packs and 1 other documented group were no longer considered extant by the end of 2014. Three suspected packs were attributed to this zone. Nine border packs reported for Washington and Montana were presumed to spend some time in this zone. Three new packs were documented in 2014 and 1 pack was retroactively added to the 2013 pack count. Eleven packs were confirmed to have produced litters, and four qualified as breeding pairs (Table 2). The reproductive status of 10 packs was unknown. Two radiocollared wolves were known to have dispersed in 2014. Documented mortalities ($n = 94$) were attributed to harvest ($n = 85$), other human ($n = 6$), and unknown causes ($n = 3$; Table 3). No confirmed or probable depredations occurred in this zone during 2014 (Table 3).

Panhandle Wolf Activity

Documented, Suspected and Reported Locations¹

- | | |
|---|--|
| 2014 Estimated Locations² | 2013 - 14 Public Observations³ |
| Documented Pack | Single Wolf Observed |
| Suspected Pack | Multiple Wolves Observed |
| Terminated Pack | |



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 11. Distribution of documented and suspected wolf packs in the Panhandle Wolf Management Zone, 2014.

Table 2. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Panhandle Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		Known dispersal
		Min. no. pups prod. (died) ^c	Breeding pair ^d	
Documented Pack				
Avery	?	4(1)	NO	0
Bathub Mountain	0	5(2)	NO	0
Boundary	?	?	UNK	1
Bumblebee	14	8(1)	YES	0
Calder Mountain (ID) ^e	?	?	UNK	0
Capitol Hill	4	4(1)	YES	0
Chilco	4	4	UNK	0
Copper Falls (ID)	?	?	UNK	0
Cutoff Peak (ID)	?	?	UNK	0
DeBorgia (MT)				
Diamond (WA)				
Dixie Queen	7	7(1)	NO	0
Fishhook	10	?	UNK	0
Hang Glider	5	1	NO	0
Honey Jones	?	?	UNK	0
Kick Bush	?	4	NO	0
Kootenai Peak	4	2	YES	0
Lost Peak (MT)				
Marble Mountain	?	?	UNK	0
Mica Peak	0			
Mullan (MT)				
Nakarna Mountain	0			
Pond Peak (ID)	4	6(2)	YES	0
Preacher (MT)				
Red Ives	?	?	UNK	0
Roman Nose	?	?	UNK	0
Silver Lake (MT)				
Silvertip	3	3	NO	0
Solomon Mountain (MT)				
Tangle Creek	2	?	NO	1
Twilight (MT)				
Wiggletail (MT)				
Subtotal	57	48(8)		2
Suspected Pack				
Keokee	?			
Skitwish	?			
Surprise	?			
Subtotal	0			
Other Documented Group				
ID634	0			
ID696	1			
Subtotal	1			
WMZ Total	58	48(8)		3

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.). Strikethroughs indicate packs

Table 2. Continued.

- no longer assumed extant at the end of 2014. Border packs officially tallied to (STATE); territory known/likely shared with ID. Data on these packs can be found in Rocky Mountain Wolf Recovery 2014 Annual Report.
- ^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.
- ^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 3.
- ^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...."

Table 3. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Panhandle Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
1	0	0	25	2	1	0	0	0	0
2	0	0	0	1	0	0	0	0	0
3	0	0	1	0	0	0	0	0	0
4	0	0	23	1	2	0	0	0	0
4A	0	0	3	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	22	0	0	0	0	0	0
7	0	0	5	0	0	0	0	0	0
9	0	0	6	2	0	0	0	0	0
WMZ Total	0	0	85	6	3	0	0	0	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

PALOUSE-HELLS CANYON WOLF MANAGEMENT ZONE

GMUs 8, 8A, 11, 11A, 13, 18

Background

The Palouse-Hells Canyon Zone is composed of GMUs 8, 8A, 11, 11A, 13, and 18. Game Management Units 8, 8A, and 11A contain portions of the highly productive Palouse and Camas prairies. Dry-land agriculture began in this zone in the 1880s and, until the 1930s, large areas of native grassland existed. Currently, virtually all non-forested land has been tilled, and only small, isolated patches of native perennial vegetation remain. Timber harvest in the corporate timber, private timber, state land, and federal land areas of GMU 8A increased dramatically through the 1980s and 1990s, creating vast acreages of early successional ungulate habitat. Non-forested habitat is not anticipated to provide habitat where wolves would persist.

Habitat within GMUs 11, 13, and 18 varies widely from steep, dry, river-canyon grasslands having low annual precipitation to higher elevation forests with greater precipitation. This area contains large tracts of both privately- and publicly-owned land: GMU 11 is mostly private land except for Craig Mountain Wildlife Management Area along the Snake and Salmon rivers (Craig Mountain has been extensively logged); GMU 13 has been mostly under private ownership since settlement and has been managed mostly for agriculture and livestock; GMU 18 is one-third private ownership located at lower elevations along the Salmon River. Road density is moderate, with restricted access in many areas. The majority of Hells Canyon Wilderness Area is in GMU 18.

Monitoring Summary

The Palouse-Hells Canyon Zone was occupied by 4 documented packs at the conclusion of 2014 (Figure 12, Table 4). Two packs were confirmed to have produced litters, one of which qualified as a breeding pair (Table 4). The reproductive status of 2 packs was unknown. One radiocollared wolf was known to have dispersed in 2014. All documented mortalities ($n = 3$) were attributed to harvest (Table 5). No confirmed or probable depredations occurred in this zone during 2014 (Table 5).

Palouse-Hells Canyon Wolf Activity

Documented, Suspected and Reported Locations¹

- | | |
|---|--|
| 2014 Estimated Locations² | 2013 - 14 Public Observations³ |
| Documented Pack | Single Wolf Observed |
| Suspected Pack | Multiple Wolves Observed |
| Terminated Pack | |



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 12. Distribution of documented and suspected wolf packs in the Palouse-Hells Canyon Wolf Management Zone, 2014.

Table 4. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Palouse-Hells Canyon Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		Known dispersal
		Min. no. pups prod. (died) ^c	Breeding pair ^d	
Documented Pack				
Giant Cedar	6	7	YES	0
Long Meadow	?	?	UNK	0
Seven Devils	?	?	UNK	1
White Pine	?	1	UNK	0
Subtotal	6	8		1
Suspected Pack				
Subtotal	0			
Other Documented Group				
Subtotal	0			
WMZ Total	6	8		1

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.).

^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 5.

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...".

Table 5. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Palouse-Hells Canyon Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
8	0	0	0	0	0	0	0	0	0
8A	0	0	1	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0
11A	0	0	1	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
18	0	0	1	0	0	0	0	0	0
WMZ Total	0	0	3	0	0	0	0	0	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

DWORSHAK-ELK CITY WOLF MANAGEMENT ZONE

GMUs 10A, 14, 15, 16

Background

The Dworshak-Elk City Zone is comprised of GMUs 10A, 14, 15, and 16. Game Management Unit 10A is predominantly timbered, with the remaining areas in either open or agricultural lands, and is bisected by canyons leading to the Clearwater River. During the 1980s and 1990s, timber harvest occurred on almost all available state and private land as demand for timber and management of these lands intensified. In GMUs 14, 15, and 16, most of the land base is in public ownership with privately-owned portions at lower elevations along the Clearwater and Salmon rivers. Productive conifer forests with intermixed grasslands characterized the majority of this zone. Many forested areas have become overgrown with lodgepole pine (*Pinus contorta*) and fir species due to fire suppression during the past 40 years. A small segment of this zone is federally-designated wilderness.

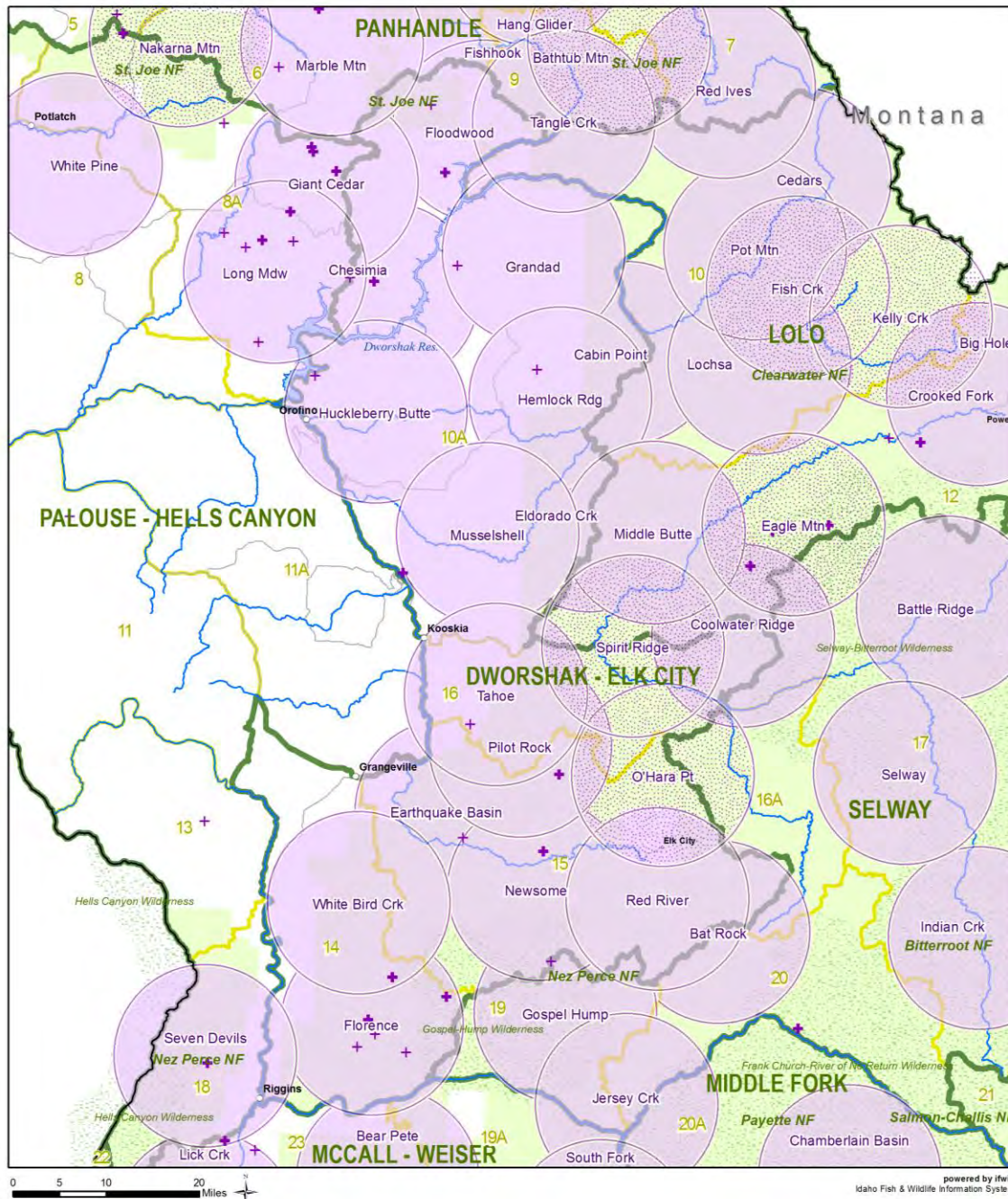
Monitoring Summary

The Dworshak-Elk City Zone was occupied by 17 documented packs at the conclusion of 2014 (Figure 13, Table 6); 1 documented pack and 1 other documented group were no longer considered extant by the end of 2014. Three new packs were documented in 2014, one of which was retroactively added to the 2013 pack count. Eleven packs were confirmed to have produced litters, and 7 packs qualified as breeding pairs (Table 6). The reproductive status of 6 packs was unknown. Two radiocollared wolves were known to have dispersed in 2014. Documented mortalities ($n = 40$) included harvest ($n = 32$), control (agency control and legal take; $n = 4$), and other human causes ($n = 4$; Table 7). Five confirmed and 3 probable wolf-caused cattle losses occurred within the zone in 2014 (Table 7).

Dworshak Wolf Activity

Documented, Suspected and Reported Locations

- | | |
|---|--|
| 2014 Estimated Locations² | 2013 - 14 Public Observations³ |
| Documented Pack | Single Wolf Observed |
| Suspected Pack | Multiple Wolves Observed |
| Terminated Pack | |



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 13. Distribution of documented and suspected wolf packs in the Dworshak-Elk City Wolf Management Zone, 2014.

Table 6. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Dworshak-Elk City Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		Known dispersal
		Min. no. pups prod. (died) ^c	Breeding pair ^d	
Documented Pack				
Bat Rock	?	?	UNK	0
Cabin Point	4	4	YES	0
Chesimia	?	?	UNK	1
Coolwater Ridge	4	2	YES	0
Earthquake Basin	2	?	UNK	0
Eldorado Creek	?	?	UNK	0
Floodwood	8	1(1) ^e	UNK	0
Florence	?	?	UNK	0
Grandad	?	1	UNK	0
Hemlock Ridge	4	3	YES	0
Huckleberry Butte	?	3(3)	UNK	0
Musselshell	4	1	NO	0
Newsome	9	2	YES	0
O'Hara Point	0			
Pilot Rock	5	3(1)	YES	0
Red River	4	2	YES	1
Tahoe	?	?	UNK	0
White Bird Creek	6	2	YES	0
Unknown		1(1)		
Subtotal	50	24(5)		2
Suspected Pack				
Subtotal	0			
Other Documented Group				
ID631	0			
Subtotal	0			
WMZ Total	50	24(5)		2

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.). Strikethroughs indicated packs no longer assumed extant at the end of 2014.

^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 7. Pups documented via mortality whose pack association could not be definitively assigned were designated as Unknown in DOCUMENTED PACK column, and were not counted towards the zone reproduction total to avoid potential double-counting only in cases where adjacent packs with documented pups could not be ruled out as the potential source for the unknown pup(s).

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth..."

^e Mortality occurred in adjacent zone (Lolo) and is counted towards that zone's mortality total (Table 9).

Table 7. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Dworshak-Elk City Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
10A	0	3	11	1	0	2	0	0	0
14	0	0	9	2	0	0	0	0	0
15	0	1	7	1	0	3(1)	0	0	0
16	0	0	5	0	0	0(2)	0	0	0
WMZ Total	0	4	32	4	0	5(3)	0	0	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

LOLO WOLF MANAGEMENT ZONE

GMUs 10, 12

Background

The Lolo Zone is primarily forested and land ownership is almost entirely publicly-owned national forests administered by the USFS. Historically, habitat productivity was high in this zone, but has decreased following decades of intensive fire suppression. Until the 1930s, wildfires were the primary habitat disturbance in this zone. Between 1900 and 1934, approximately 70% of the Lochsa River drainage was burned by wildfires. Approximately one-third of the zone provides good access for motorized vehicles with medium road densities. The remaining portion has low road densities, but contains good hiking trails. In 1964, most of the southern portion of GMU 12 was designated as part of the Selway-Bitterroot Wilderness.




Monitoring Summary

The Lolo Zone was occupied by 6 documented packs (including 2 Idaho border packs), and 5 other documented wolf groups at the conclusion of 2014; 4 documented packs were no longer considered extant by the end of the year (Figure 14, Table 8). Five border packs reported for Montana were presumed to spend some time in this zone. One new pack was documented in this zone in 2014, and was retroactively added to the 2013 pack count. Reproduction was confirmed in 3 packs, one of which qualified as a breeding pair (Table 8). The reproductive status of 3 packs was unknown. Four radiocollared wolves were known to have dispersed in 2014. Documented mortalities ($n = 41$) included control (agency removal and legal take; $n = 23$) and harvest ($n = 18$; Table 9). There were no confirmed or probable wolf-caused depredations in this zone in 2014 (Table 9).



Lolo Wolf Activity

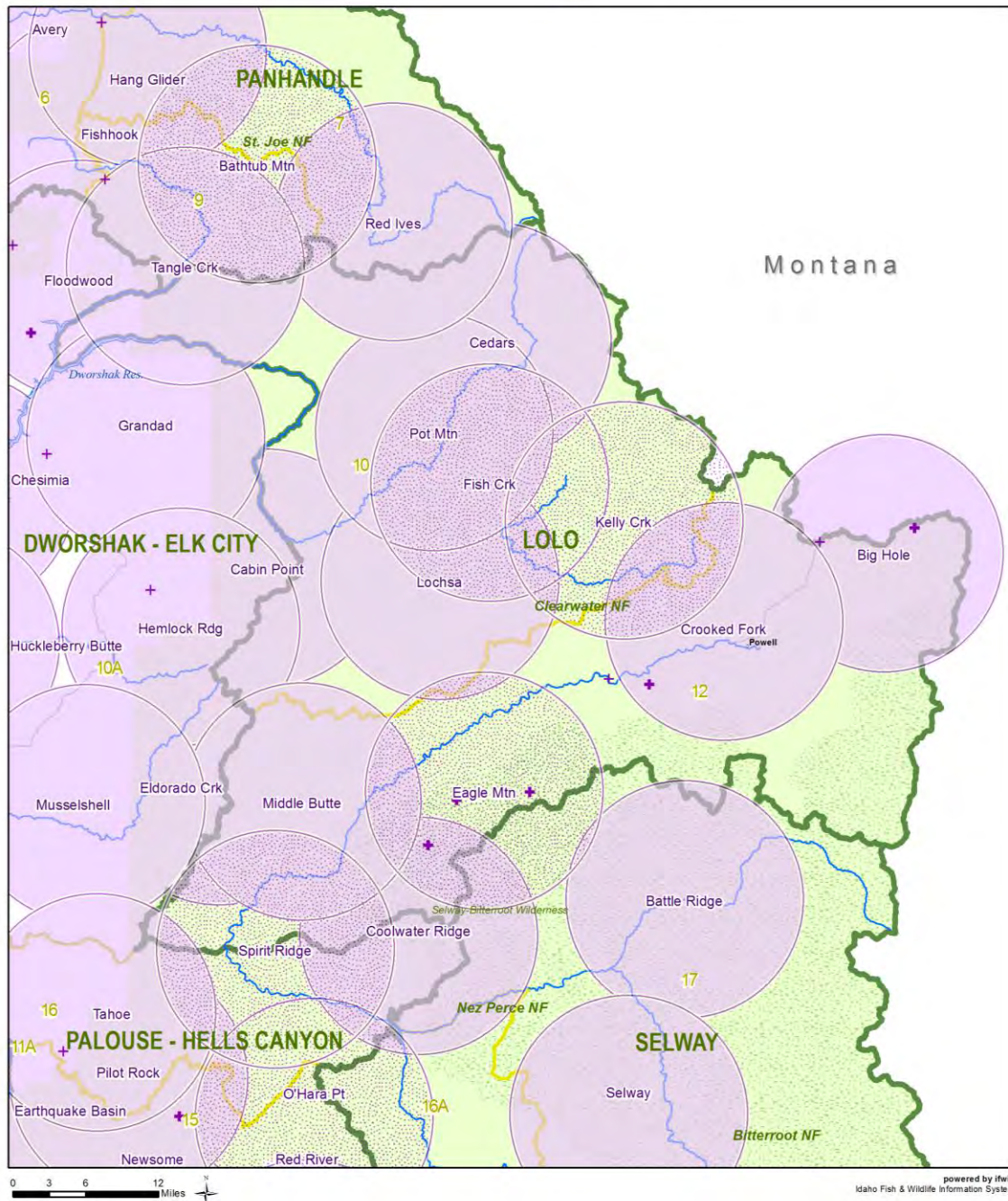
Documented, Suspected and Reported Locations¹

2014 Estimated Locations²

-  Documented Pack
-  Suspected Pack
-  Terminated Pack

2013 - 14 Public Observations³

-  Single Wolf Observed
-  Multiple Wolves Observed



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 14. Distribution of documented and suspected wolf packs in the Lolo Wolf Management Zone, 2014.

Table 8. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Lolo Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		Known dispersal
		Min. no. pups prod. (died) ^c	Breeding pair ^d	
Documented Pack				
Big Hole (ID)	10	4	YES	0
Cache Creek (MT)				
Cedars (ID)	9	?	UNK	2
Crooked Fork	11	2(2)	UNK	0
Eagle Mountain	0			
Fish Creek (ID)	0			1
Gash Creek (MT)				
Kelly Creek	0			1
Lochsa	?	2(2)	UNK	0
Middle Butte	?	?	NO	0
One Horse (MT)				
Pot Mountain	?	?	UNK	0
Quartz Creek (MT)				
Spirit Ridge	0			
Sunrise Mountain (MT)				
Subtotal	30	8(4)		4
Suspected Pack				
Subtotal	0			
Other Documented Group				
B574	1			
ID625	1			
ID636	1			
ID637	2			
ID663/ID664	3			
Subtotal	8			
WMZ Total	38	8(4)		4

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.). Strikethroughs indicated packs no longer assumed extant at the end of 2014. Border packs officially tallied to (STATE); territory known/likely shared with ID. Data on these packs can be found in Rocky Mountain Wolf Recovery 2014 Annual Report.

^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 9.

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...."

Table 9. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Lolo Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
10	0	22	6	0	0	0	0	0	0
12	0	1	12	0	0	0	0	0	0
WMZ Total	0	23	18	0	0	0	0	0	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

SELWAY WOLF MANAGEMENT ZONE

GMUs 16A, 17, 19, 20

Background

Habitat within the Selway Zone varies from high-precipitation, forested areas along the lower reaches of the Selway River to dry, steep, south-facing Ponderosa pine and grassland habitat along the Salmon River. Many areas along the Salmon River represent a mix of successional stages due to frequent fires within the wilderness. Fire suppression within portions of the Selway River drainage has led to decreasing forage production for big game. Road densities within this zone are low.

Noxious weeds, especially spotted knapweed (*Centaurea maculosa*), have encroached upon many low-elevation areas. Due to the rugged and remote nature of this zone, human impacts have been limited. In 1964, almost all of GMU 17 and a small portion of GMU 16A were included in the Selway-Bitterroot Wilderness. Most of GMU 19 became part of the Gospel Hump Wilderness in 1978, and in 1980, part of GMU 20 was included in the Frank Church-River of No Return Wilderness.

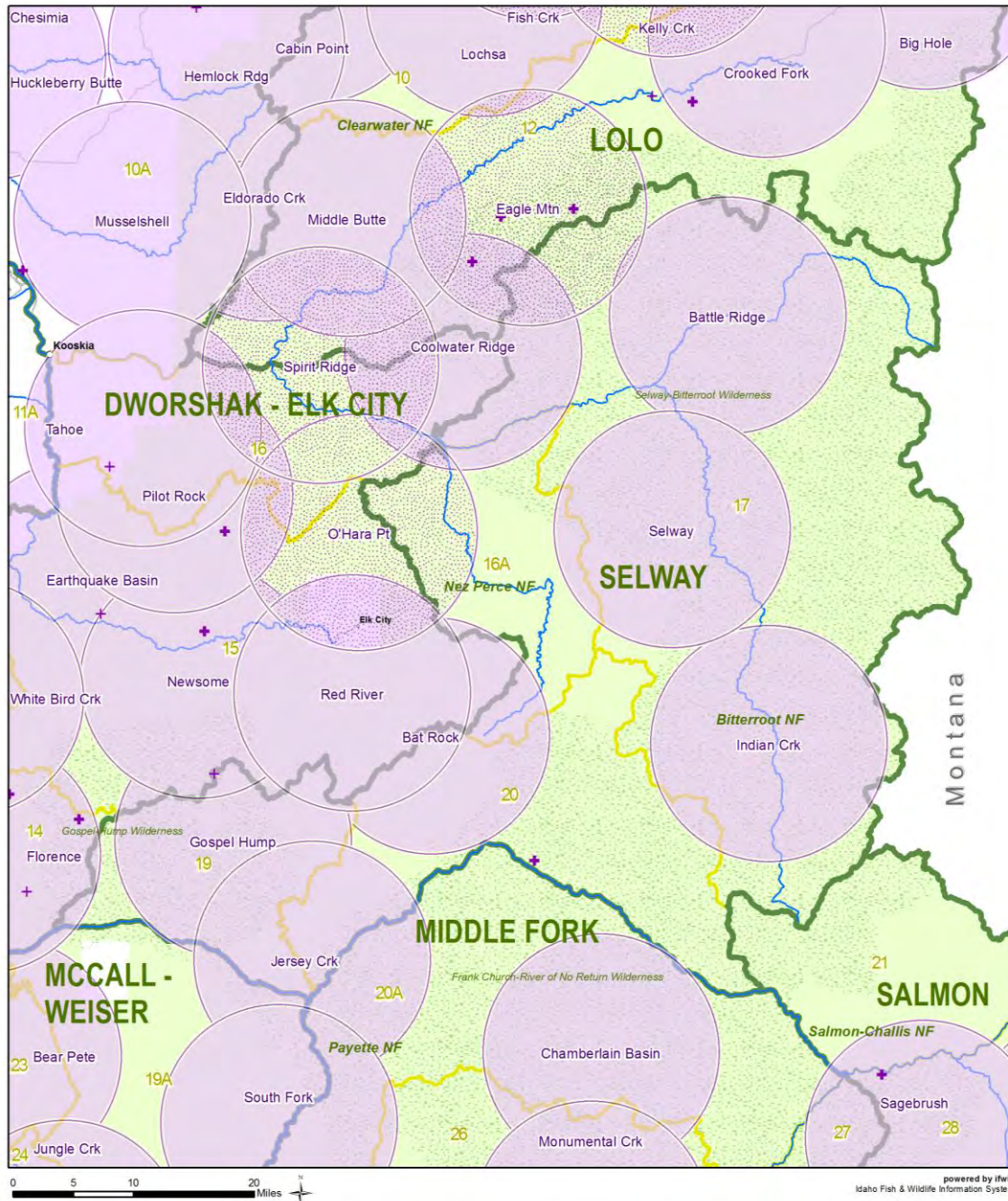
Monitoring Summary

The Selway Zone was occupied by 5 documented packs (including 2 Idaho border packs) in 2014 (Figure 15, Table 10). One border pack reported for Montana was presumed to spend some time in this zone. Reproduction was verified for 2 packs within this zone, one of which qualified as a breeding pair (Table 10). The reproductive status of 3 packs was unknown. No radiocollared wolves were known to have dispersed in 2014. All documented wolf mortalities ($n = 16$) in this zone were attributed to harvest (Table 11). There were no confirmed or probable wolf-caused depredations in this zone in 2014 (Table 11).

Selway Wolf Activity

Documented, Suspected and Reported Locations¹

- 2014 Estimated Locations²**
- Documented Pack
 - Suspected Pack
 - Terminated Pack
- 2013 - 14 Public Observations³**
- + Single Wolf Observed
 - + Multiple Wolves Observed



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 15. Distribution of documented and suspected wolf packs in the Selway Wolf Management Zone, 2014.

Table 10. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Selway Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		Known dispersal
		Min. no. pups prod. (died) ^c	Breeding pair ^d	
Documented Pack				
Battle Ridge (ID)	?	?	UNK	0
Gospel Hump	3	1	UNK	0
Indian Creek (ID)	4	3(1)	YES	0
Jersey Creek	?	?	UNK	0
Selway	?	?	UNK	0
Watchtower (MT)				
Subtotal	7	4(1)		0
Suspected Pack				
Subtotal	0			
Other Documented Group				
Subtotal	0			
WMZ Total	7	4(1)		0

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.). Border packs officially tallied to (STATE); territory known/likely shared with ID. Data on these packs can be found in Rocky Mountain Wolf Recovery 2014 Annual Report

^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 11.

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...".

Table 11. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Selway Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
16A	0	0	1	0	0	0	0	0	0
17	0	0	8	0	0	0	0	0	0
19	0	0	3	0	0	0	0	0	0
20	0	0	4	0	0	0	0	0	0
WMZ Total	0	0	16	0	0	0	0	0	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

MCCALL-WEISER WOLF MANAGEMENT ZONE

GMUs 19A, 22, 23, 24, 25, 31, 32, 32A

Background

The McCall-Weiser Zone is composed of GMUs 19A, 22-25, 31, 32, and 32A. Over 70% of the land area in GMUs 19A, 23, 24, and 25 is in public ownership and management. The Little Salmon River and North Fork Payette River valley bottoms comprise most of the private ownership. Private land in these GMUs is predominantly agricultural or rural subdivision in nature. Timber harvest and livestock grazing are prevalent. Several large fires have burned in these GMUs in the last few decades. Road densities are relatively low in GMUs 19A and 25. Road densities in GMUs 23 and 24 are moderate to high.

About 60% of GMUs 22 and 32A and 20% of GMU 32 is in public ownership and management. Privately-owned land comprised much of the western portion of GMU 32 and the Weiser River Valley of GMUs 22 and 32A. Timber harvest and livestock grazing are prevalent. Most forested habitat is in the early- to mid-successional stage. Andrus Wildlife Management Area in the southwest portion of GMU 22 is managed for elk and mule deer winter range and encompasses about 8,000 acres (3,237 ha).

About 50% of GMU 31 is in public ownership and management. Privately-owned land comprises much of the southern and eastern portions of the GMU. Higher elevations are timbered, whereas lower elevations are primarily shrub-steppe or desert habitat types. Timber harvest and livestock grazing are prevalent.

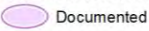

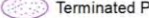
Monitoring Summary

The McCall-Weiser Zone was occupied by 11 documented packs at the conclusion of 2014; 1 other documented group was no longer considered extant by the end of the year (Figure 16, Table 12). Three suspected packs were attributed to this zone. Two new packs were documented in this zone in 2014, including 1 suspected pack in 2013 that was upgraded to documented status in 2014 and retroactively added to the 2013 pack counts. Three packs were confirmed to have produced litters, and one qualified as a breeding pair (Table 12). The reproductive status of 8 packs was unknown (Table 12). No radiocollared wolves were known to have dispersed in this zone in 2014. Documented mortalities ($n = 28$) included harvest ($n = 19$), control (agency removal and legal take; $n = 7$), other human ($n = 1$), and unknown causes ($n = 1$; Table 13). Sixteen confirmed and 3 probable wolf-caused cattle losses occurred within the zone; and confirmed and 2 probable wolf-caused domestic sheep losses occurred within the zone (Table 13).



McCall - Weiser Wolf Activity

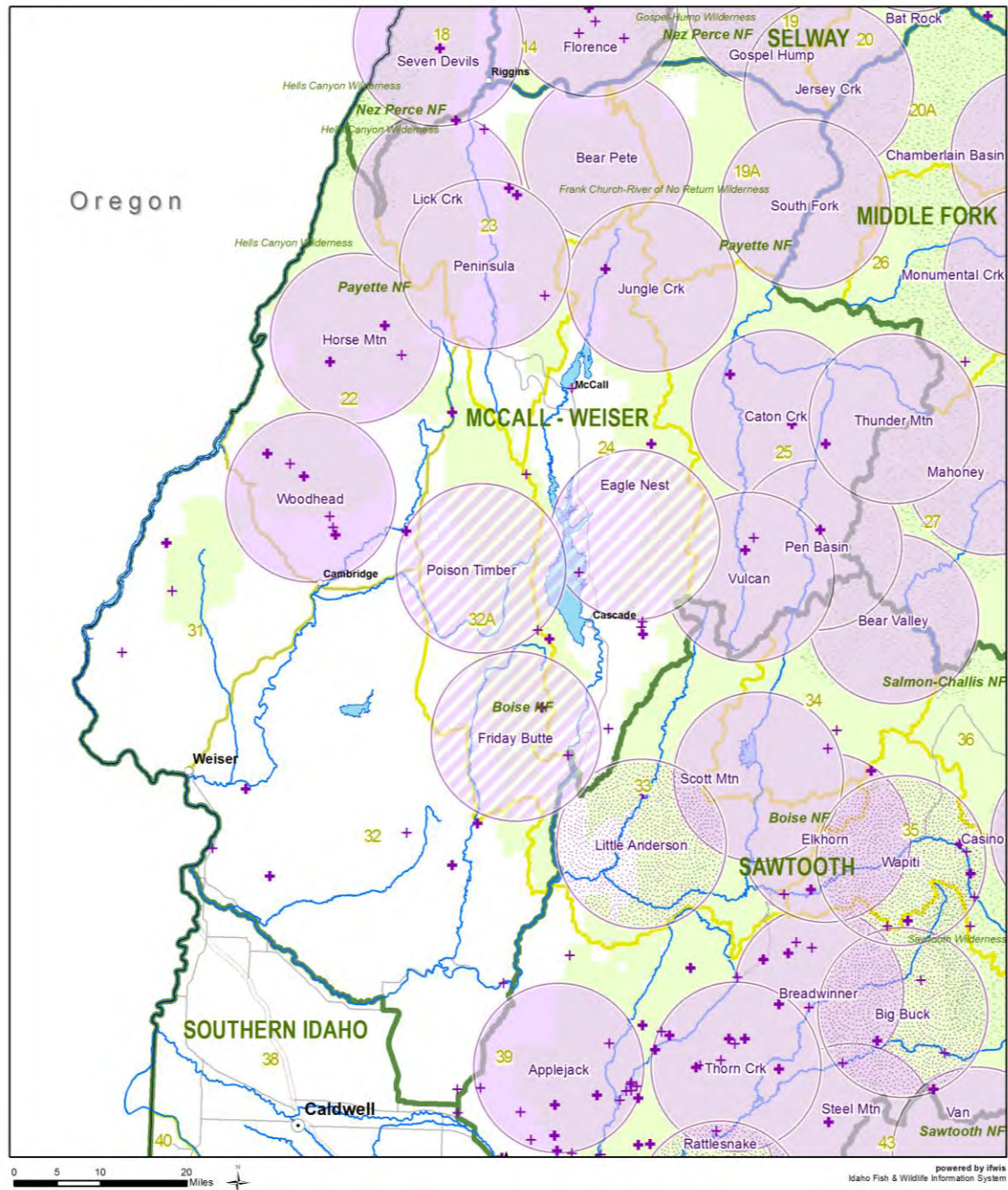
Documented, Suspected and Reported Locations¹

2014 Estimated Locations²

-  Documented Pack
-  Suspected Pack
-  Terminated Pack

2013 - 14 Public Observations³

-  Single Wolf Observed
-  Multiple Wolves Observed



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 16. Distribution of documented and suspected wolf packs in the McCall-Weiser Wolf Management Zone, 2014.

Table 12. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the McCall-Weiser Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		Known dispersal
		Min. no. pups prod. (died) ^c	Breeding pair ^d	
Documented Pack				
Bear Pete	?	?	UNK	0
Caton Creek	?	?	UNK	0
Horse Mountain	6	3	YES	0
Jungle Creek	?	?	UNK	0
Lick Creek	?	?	UNK	0
Pen Basin	2	6(3)	NO	0
Peninsula	?	1	UNK	0
South Fork	?	?	UNK	0
Thunder Mountain	?	?	UNK	0
Vulcan	?	?	UNK	0
Woodhead	?	?	UNK	0
Unknown		1(1)		
Subtotal	8	11(4)		0
Suspected Pack				
Eagle Nest	?			
Friday Butte	?			
Poison Timber	?			
Subtotal	0			
Other Documented Group				
ID640	0			
Subtotal	0			
WMZ Total	8	11(4)		0

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.). Strikethroughs indicated packs no longer assumed extant at the end of 2014.

^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 13. Pups documented via mortality whose pack association could not be definitively assigned were designated as Unknown in DOCUMENTED PACK column, and were not counted towards the zone reproduction total to avoid potential double-counting only in cases where adjacent packs with documented pups could not be ruled out as the potential source for the unknown pup(s).

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...".

Table 13. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the McCall-Weiser Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
19A	0	0	2	0	0	0	0	0	0
22	0	1	1	0	0	5	5(2)	0	0
23	0	3	4	0	0	0	2	0	0
24	0	3	0	0	0	8(1)	5	0	0
25	0	0	11	1	1	0	0	0	0
31	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	3(2)	0	0	0
32A	0	0	1	0	0	0	0	0	0
WMZ Total	0	7	19	1	1	16(3)	12(2)	0	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

MIDDLE FORK WOLF MANAGEMENT ZONE

GMUs 20A 26, 27

Background

That portion of the Middle Fork Zone comprised of GMUs 20A and 26 is predominantly within the federally-designated Frank Church-River of No Return Wilderness. That portion within GMU 27 is primarily publicly-owned USFS lands within the Middle Fork of the Salmon River drainage. Large areas of the wilderness have burned creating a patchwork of vegetative seral stages.

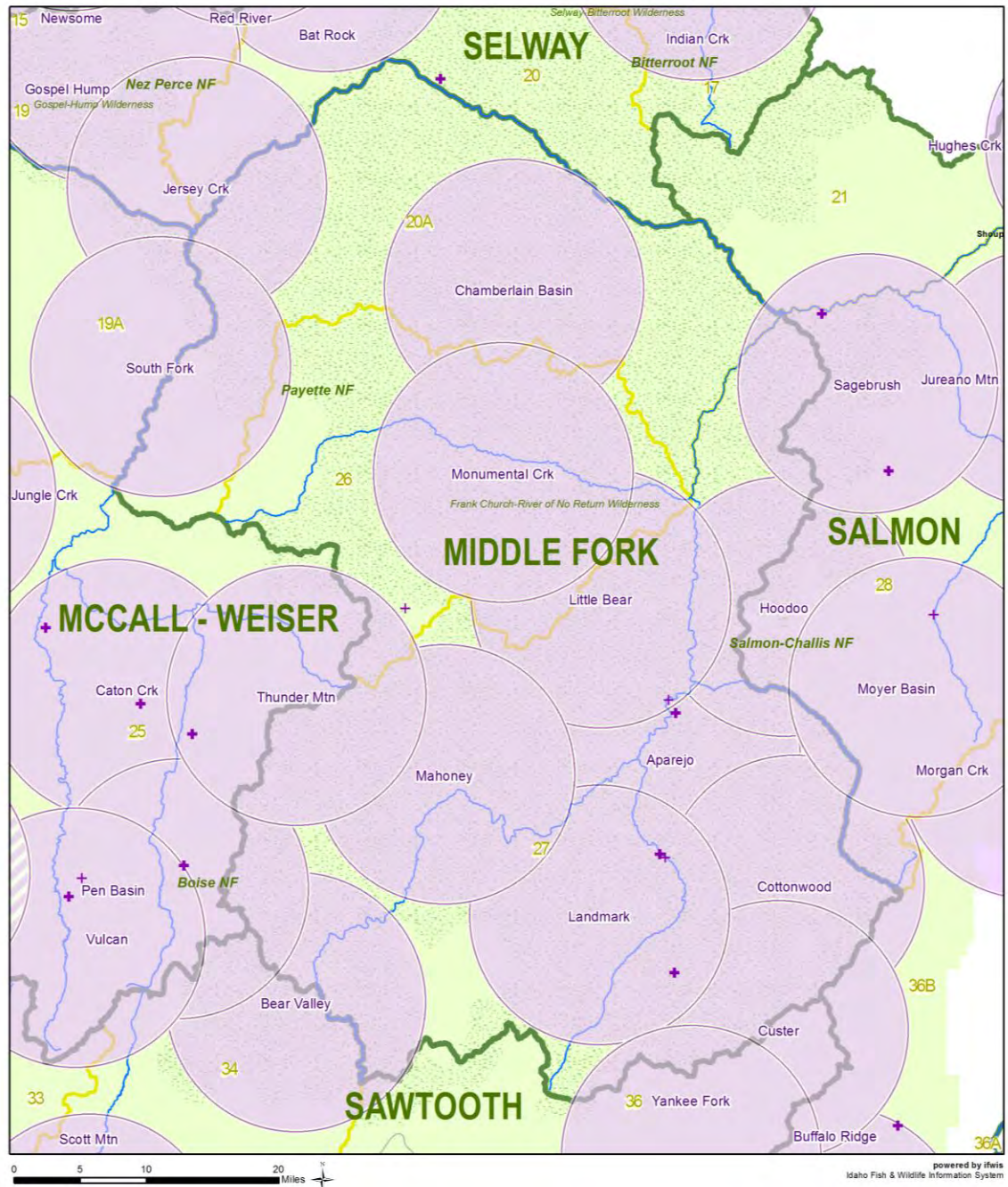
Monitoring Summary

The Middle Fork Zone was occupied by 7 documented packs in 2014 (Figure 17, Table 14); 1 other documented group was no longer considered extant by the end of the year. Lack of radiocollared wolves in conjunction with the remote nature of this management zone precluded efforts to conduct reproductive surveys; reproduction was verified for 1 pack based on the harvest of juvenile wolves from areas encompassed by known pack territories (Table 14). No radiocollared wolves were known to have dispersed in 2014. Documented mortalities ($n = 19$) were attributed to harvest ($n = 15$), control (agency removal and legal take; $n = 3$), and other human causes ($n = 1$; Table 15). This predominantly wilderness zone contains few domestic livestock and no losses were reported (Table 15).

Middle Fork Wolf Activity

Documented, Suspected and Reported Locations¹

- 2014 Estimated Locations²**
- Documented Pack
 - Suspected Pack
 - Terminated Pack
- 2013 - 14 Public Observations³**
- + Single Wolf Observed
 - + Multiple Wolves Observed



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 17. Distribution of documented and suspected wolf packs in the Middle Fork Wolf Management Zone, 2014.

Table 14. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Middle Fork Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		
		Min. no. pups prod. (died) ^c	Breeding pair ^d	Known dispersal
Documented Pack				
Aparejo	?	?	UNK	0
Chamberlain Basin	?	?	UNK	0
Cottonwood	?	?	UNK	0
Landmark	?	?	UNK	0
Little Bear	?	?	UNK	0
Mahoney	?	2(2)	UNK	0
Monumental Creek	?	?	UNK	0
Subtotal	0	2(2)		0
Suspected Pack				
Subtotal	0			
Other Documented Group				
B534	0			
Subtotal	0			
WMZ Total	0	2(2)		0

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.). Strikethroughs indicated packs no longer assumed extant at the end of 2014.

^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 15.

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...".

Table 15. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Middle Fork Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
20A	0	0	2	0	0	0	0	0	0
26	0	2	4	0	0	0	0	0	0
27	0	1	9	1	0	0	0	0	0
WMZ Total	0	3	15	1	0	0	0	0	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

SALMON WOLF MANAGEMENT ZONE

GMUs 21, 21A, 28, 36B

Background

The Salmon Zone encompasses 4 GMUs (21, 21A, 28, 36B) that also comprise the Salmon Elk Zone. The topography within the Salmon Zone is characterized by steep, mountainous slopes interspersed by river valleys. The habitat consists primarily of timbered hillsides with grass understory, although lower elevations are arid rangelands comprised of sagebrush and bunchgrass vegetation. Land ownership is primarily public, with approximately 95% under USFS, Bureau of Land Management (BLM), or State ownership. Cattle ranching, livestock grazing, mining, timber harvesting, and recreation are the dominant human uses in this zone.

Monitoring Summary

The Salmon Zone was occupied by 8 documented packs (including 1 Idaho border pack) and 1 other documented group during 2014 (Figure 18, Table 16). Four border packs attributed to Montana were presumed to spend some time within Idaho. Six packs produced litters, 4 of which qualified as breeding pairs (Table 16). The reproductive status of the remaining 2 packs was unknown. Two radiocollared wolves were known to have dispersed in 2014. Documented mortalities within the Salmon Zone ($n = 21$) were attributed to harvest ($n = 15$), control (agency removal and legal take; $n = 4$), and unknown causes ($n = 2$; Table 17). Nine confirmed wolf-caused cattle losses occurred in this zone (Table 17).

Salmon Wolf Activity

Documented, Suspected and Reported Locations¹

- | | |
|---|--|
| 2014 Estimated Locations² | 2013 - 14 Public Observations³ |
| Documented Pack | Single Wolf Observed |
| Suspected Pack | Multiple Wolves Observed |
| Terminated Pack | |



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 18. Distribution of documented and suspected wolf packs in the Salmon Wolf Management Zone, 2014.

Table 16. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Salmon Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		Known dispersal
		Min. no. pups prod. (died) ^c	Breeding pair ^d	
Documented Pack				
Alta (MT)				
Baldy Mountain	?	?	UNK	0
Buffalo Ridge	?	?	UNK	0
Hoodoo	4	4	YES	0
Hughes Creek (ID)	5	4(1)	YES	0
Jureano Mountain	8	5(1)	YES	1
Morgan Creek	6	4(1)	NO	1
Moyer Basin	3	5(2)	NO	0
Overwhich (MT)				
Pyramid (MT)				
Sagebrush	9	3	YES	0
Sula (MT)				
Subtotal	35	25(5)		2
Suspected Pack				
Subtotal	0			
Other Documented Group				
ID660	2			
Subtotal	2			
WMZ Total	37	25(2)		2

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.). Border packs officially tallied to (STATE); territory known/likely shared with ID. Data on these packs can be found in Rocky Mountain Wolf Recovery 2014 Annual Report

^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 17.

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...."

Table 17. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Salmon Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
21	0	0	3	0	1	0	0	0	0
21A	0	0	3	0	0	0	0	0	0
28	0	3	6	0	1	6	0	0	0
36B	0	1	3	0	0	3	0	0	0
WMZ Total	0	4	15	0	2	9	0	0	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

SAWTOOTH WOLF MANAGEMENT ZONE

GMUs 33, 34, 35, 36, 39

Background

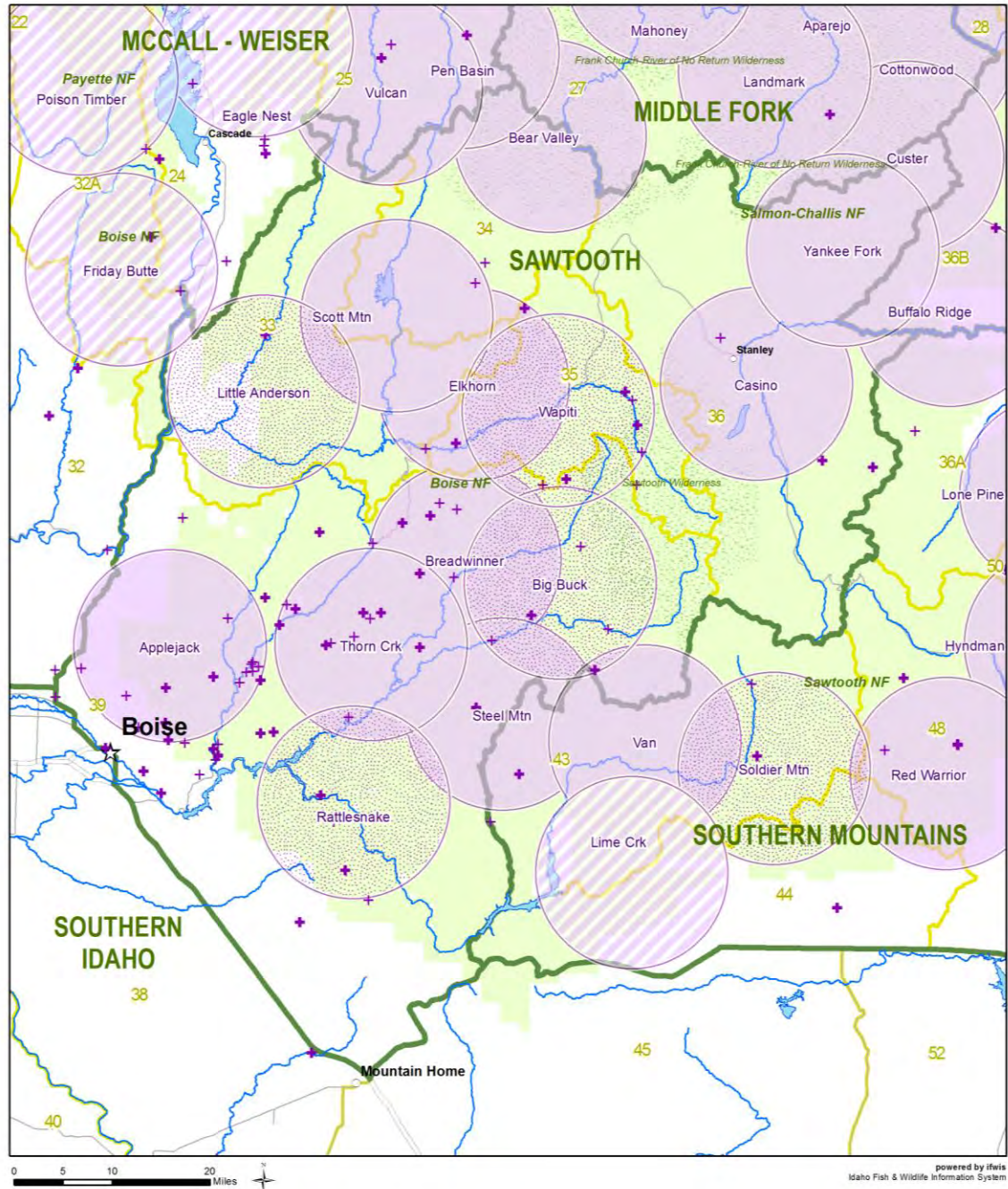
The Salmon Zone encompasses 5 GMUs (33, 34, 35, 36, 39) that also comprise the Sawtooth and Boise River Elk zones. Access within the Sawtooth Zone ranges from heavily roaded urban areas to roadless wilderness areas. The majority of this zone is forested public land administered by the Boise and Sawtooth National forests. However, sections of private agricultural land also exist in the Mayfield and Horseshoe Bend areas. A portion of the Treasure Valley, Idaho's largest metropolitan area, is also found in this zone. The climate tends to be warm and dry in the summer and wet and cold in the winter. Lower elevations tend to receive more rain in the winter trending to heavy snow in higher elevations. Dominant human uses in this zone include livestock grazing, mining, and recreation.

Monitoring Summary

The Sawtooth Zone was occupied by 10 documented packs and 1 other documented group at the conclusion of 2014; 4 packs and 3 other documented groups were considered no longer extant at the end of the year (Figure 19, Table 18). One new pack was documented in this zone in 2014. Seven packs produced litters, and 4 packs qualified as breeding pairs (Table 18). The reproductive status of 3 packs was unknown. Two radiocollared wolves were known to have dispersed in 2014 (Table 18). Documented mortalities ($n = 38$) included harvest ($n = 17$), control (agency removal and legal take; $n = 11$), unknown ($n = 6$), natural ($n = 2$), and other human causes ($n = 2$; Table 19). Three confirmed and 2 probable wolf-caused cattle losses occurred in this zone (Table 19). Fifty-nine confirmed and 4 probable wolf-caused sheep losses occurred in this zone. There was 1 confirmed wolf-caused domestic dog loss in this zone in 2014 (Table 19).

Sawtooth Wolf Activity

Documented, Suspected and Reported Locations¹



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 19. Distribution of documented and suspected wolf packs in the Sawtooth Wolf Management Zone, 2014.

Table 18. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Sawtooth Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		Known dispersal
		Min. no. pups prod. (died) ^c	Breeding pair ^d	
Documented Pack				
Applejack	?	?	UNK	0
Bear Valley	5	2	YES	0
Big Buck	0			1
Breadwinner	2	5(5)	NO	0
Casino	3	1	NO	0
Custer	?	?	UNK	0
Elkhorn	4	3(1)	YES	0
Little Anderson	0			
Rattlesnake	0			
Scott Mountain	11	7	YES	0
Steel Mountain	10	5(1)	YES	0
Thorn Creek	?	1	NO	1
Wapiti	0			
Yankee Fork	?	?	UNK	0
Subtotal	35	24(7)		2
Suspected Pack				
Subtotal	0			
Other Documented Group				
B547	1			
B591	0			
B596	0			
D656	0			
Subtotal	0			
WMZ Total	36	24(7)		2

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.). Strikethroughs indicated packs no longer assumed extant at the end of 2014.

^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 19.

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...".

Table 19. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Sawtooth Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
33	1	0	4	1	0	0	0	0	0
34	0	0	1	0	0	0	0	0	0
35	0	0	2	0	0	0	0	0	0
36	0	3	4	1	0	3(2)	0	0	0
39	1	8	6	0	6	0	59(4)	1	0
WMZ Total	2	11	17	2	6	3(2)	59(4)	1	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

SOUTHERN MOUNTAINS WOLF MANAGEMENT ZONE

GMUs 29, 30, 30A, 36A, 37, 37A, 43, 44, 48, 49, 50, 51, 58, 59, 59A

Background

The Southern Mountains Zone is comprised of 4 elk management zones: The Smoky Mountains, Pioneer, Lemhi, and Beaverhead zones. This zone contains a wide diversity of terrain transitioning from relatively flat prairies in the southwestern portion to rolling and moderately steep terrain of the Smoky and Soldier Mountain ranges in the central portions and steeper, spire-like peaks of the Boulder, White Cloud, Pioneer, and Beaverhead mountain ranges in the northeast portions of this zone. These mountain ranges are intersected by several major river drainages, including the South Fork Boise, Big Wood, Big Lost, Little Lost, East Fork Salmon, Salmon, Pahsimeroi, and Lemhi Rivers. Because of this varied terrain, habitats range widely and include grass prairie, coniferous forest, high desert shrub-steppe, and alpine; this diversity reflects the wide range of variation in annual precipitation across this region. Land ownership is predominantly public (USFS, BLM) within this zone. Cattle ranching, livestock grazing, and recreation are the dominant human uses in this zone.

Monitoring Summary

The Southern Mountains Zone was occupied by 8 documented packs and 2 other documented groups at the conclusion of 2014; 2 packs were no longer considered extant at the end of the year (Figure 20, Table 20). One suspected pack was attributed to this zone. One new pack was documented in 2014. Four packs produced litters, two of which qualified as breeding pairs in 2014 (Table 20); the reproductive status of 4 packs was unknown. One radiocollared wolf was known to have dispersed in 2014. Documented mortalities ($n = 35$) included harvest ($n = 22$), control (agency removal and legal take; $n = 10$), unknown ($n = 2$), and other human causes ($n = 1$; Table 21). Ten confirmed and 2 probable wolf-caused cattle losses occurred in the zone (Table 21). Nine confirmed and 1 probable wolf-caused domestic sheep losses occurred in the zone. One confirmed horse loss occurred in the zone (Table 21).

Southern Mountains Wolf Activity

Documented, Suspected and Reported Locations¹

- | | |
|---|--|
| 2014 Estimated Locations² | 2013 - 14 Public Observations³ |
| Documented Pack | Single Wolf Observed |
| Suspected Pack | Multiple Wolves Observed |
| Terminated Pack | |



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 20. Distribution of documented and suspected wolf packs in the Southern Mountains Wolf Management Zone, 2014.

Table 20. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Southern Mountains Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		
		Min. no. pups prod. (died) ^c	Breeding pair ^d	Known dispersal
Documented Pack				
Antelope Creek	?	2(2)	UNK	0
Arentson	?	?	UNK	0
Flatiron	?	1(1)	UNK	0
Hyndman	?	?	UNK	0
Lemhi	?	?	UNK	0
Little Wood River	0			
Lone Pine	?	?	UNK	0
Red Warrior	8	2	YES	0
Soldier Mountain	0			1
Van	7	4	YES	0
Subtotal	15	9(3)		1
Suspected Pack				
Lime Creek	?			
Subtotal	0			
Other Documented Group				
ID626	2			
ID658	1			
Subtotal	3			
WMZ Total	18	9(3)		2

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.). Strikethroughs indicated packs no longer assumed extant at the end of 2014.

^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 21.

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...."

Table 21. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Southern Mountains Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
29	0	0	1	0	0	1	0	0	0
36A	0	1	1	0	1	1(1)	0	0	0
37	0	1	1	0	0	1	2	0	0
37A	0	0	0	0	0	1	0	0	0
43	0	0	4	1	0	0	1	0	0
44	0	1	3	0	0	3(1)	3	0	0
48	0	0	3	0	0	0	1(1)	0	1
49	0	0	0	0	0	0	2	0	0
50	0	6	7	0	1	3	0	0	0
51	0	0	2	0	0	0	0	0	0
WMZ Total	0	9	22	1	2	10(2)	9(1)	0	1

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

BEAVERHEAD WOLF MANAGEMENT ZONE

GMUs 60, 60A, 61, 62, 62A, 64, 65, 67

Background

The Beaverhead Zone is dominated by the Beaverhead Mountains, a sub-range of the Bitterroot Mountains. The Beaverhead Mountains are characterized by steep, rocky peaks intersected by numerous steep-gradient creek drainages. The northern portion of this zone is bounded to the south by the Lemhi River and its relatively flat, productive pastureland transitioning to lodgepole forest and steep, mountainous terrain. The central and southern portions of the Beaverhead Zone are comprised of high elevation shrub-steppe habitat transitioning to lodgepole forest and mountainous terrain. Land ownership is primarily Federal (BLM and USFS; 85%). Dominant land use activities include livestock production and agriculture.

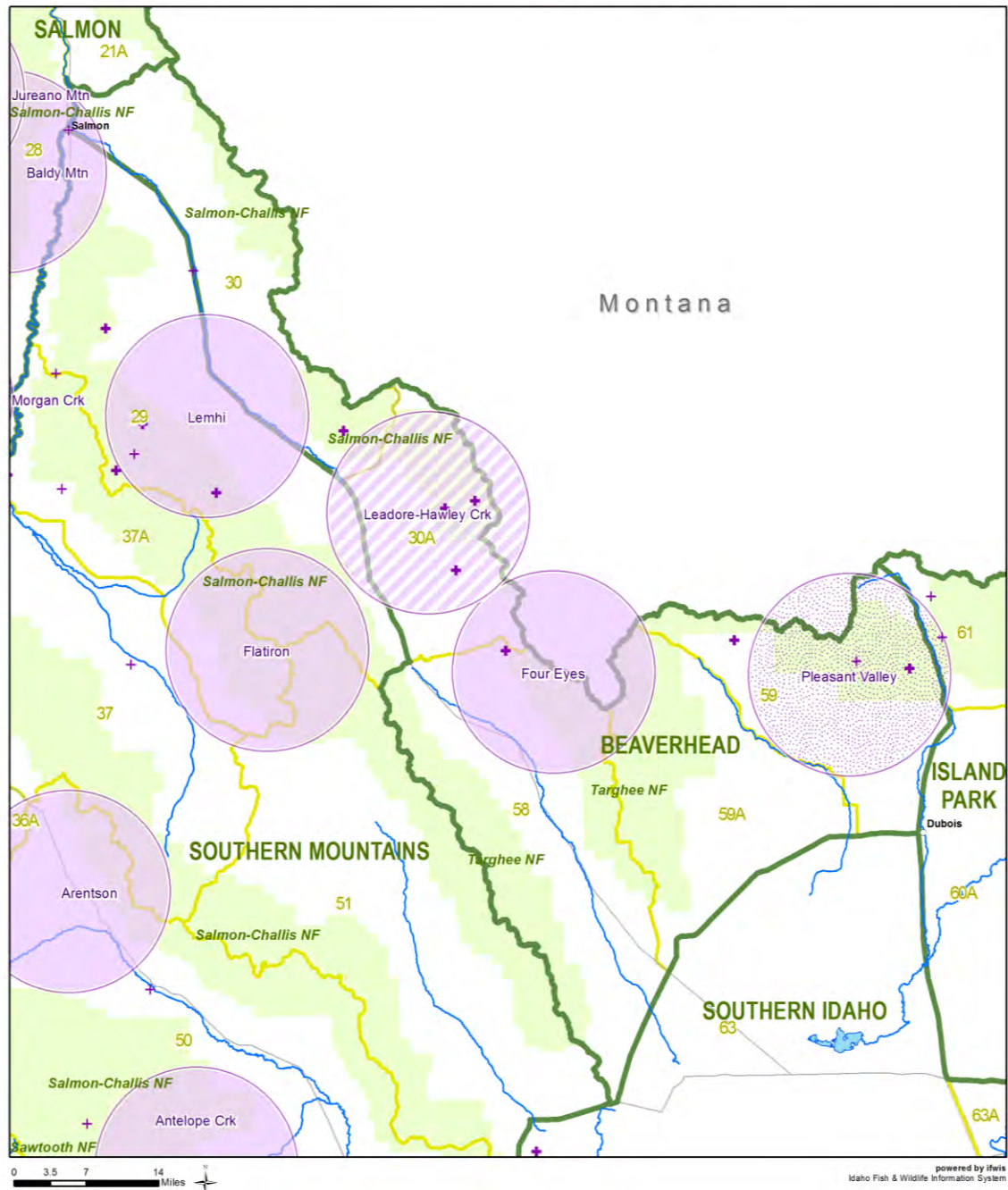
Monitoring Summary

The Beaverhead Zone was occupied by 1 documented border pack at the conclusion of 2014; 1 pack was no longer considered extant at the end of the year (Figure 21, Table 22). Two border packs attributed to Montana were presumed to spend some time within Idaho. One suspected pack was attributed to this zone. The reproductive status of the lone resident pack was unknown (Table 22). No radiocollared wolves were known to have dispersed in 2014. The only documented mortality in the zone resulted from harvest ($n = 1$; Table 23). No wolf-caused livestock losses occurred within the zone (Table 23).

Beaverhead Wolf Activity

Documented, Suspected and Reported Locations¹

- | | |
|---|--|
| 2014 Estimated Locations² | 2013 - 14 Public Observations³ |
| Documented Pack | Single Wolf Observed |
| Suspected Pack | Multiple Wolves Observed |
| Terminated Pack | |



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 21. Distribution of documented and suspected wolf packs in the Beaverhead Wolf Management Zone, 2014.

Table 22. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Beaverhead Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		Known dispersal
		Min. no. pups prod. (died) ^c	Breeding pair ^d	
Documented Pack				
Bloody Dick (MT)				
Four Eyes (ID)	4	?	UNK	0
Jeff Davis (MT)				
Pleasant Valley (ID)	0			
Subtotal	4	0		0
Suspected Pack				
Leadore-Hawley Creek	?			
Subtotal	0			
Other Documented Group				
Subtotal	0			
WMZ Total	4	0		0

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.). Strikethroughs indicated packs no longer assumed extant at the end of 2014. Border packs officially tallied to (STATE); territory known/likely shared with ID. Data on these packs can be found in Rocky Mountain Wolf Recovery 2014 Annual Report.

^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 23.

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...".

Table 23. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Beaverhead Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
30	0	0	0	0	0	0	0	0	0
30A	0	0	0	1	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0
59A	0	0	0	0	0	0	0	0	0
WMZ Total	0	0	0	1	0	0	0	0	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

ISLAND PARK WOLF MANAGEMENT ZONE

GMUs 60, 60A, 61, 62, 62A, 64, 65, 67

Background

Topography in the Island Park Zone consists of gentle to moderately sloping terrain, but contains portions of several mountain ranges. At relatively high elevation, winters are often severe, with associated deep snow accumulations. Habitat communities comprise a mixture of forest types (lodgepole pine, Douglas-fir, quaking aspen [*Populus tremuloides*]) associated with adequate moisture, and high-desert, shrub-steppe habitat types indicative of a drier climate. Land ownership consists of a checkerboard of state, federal, and private properties, roughly one half being under federal/state ownership. Dominant land use activities include timber harvest, livestock production, and agriculture.

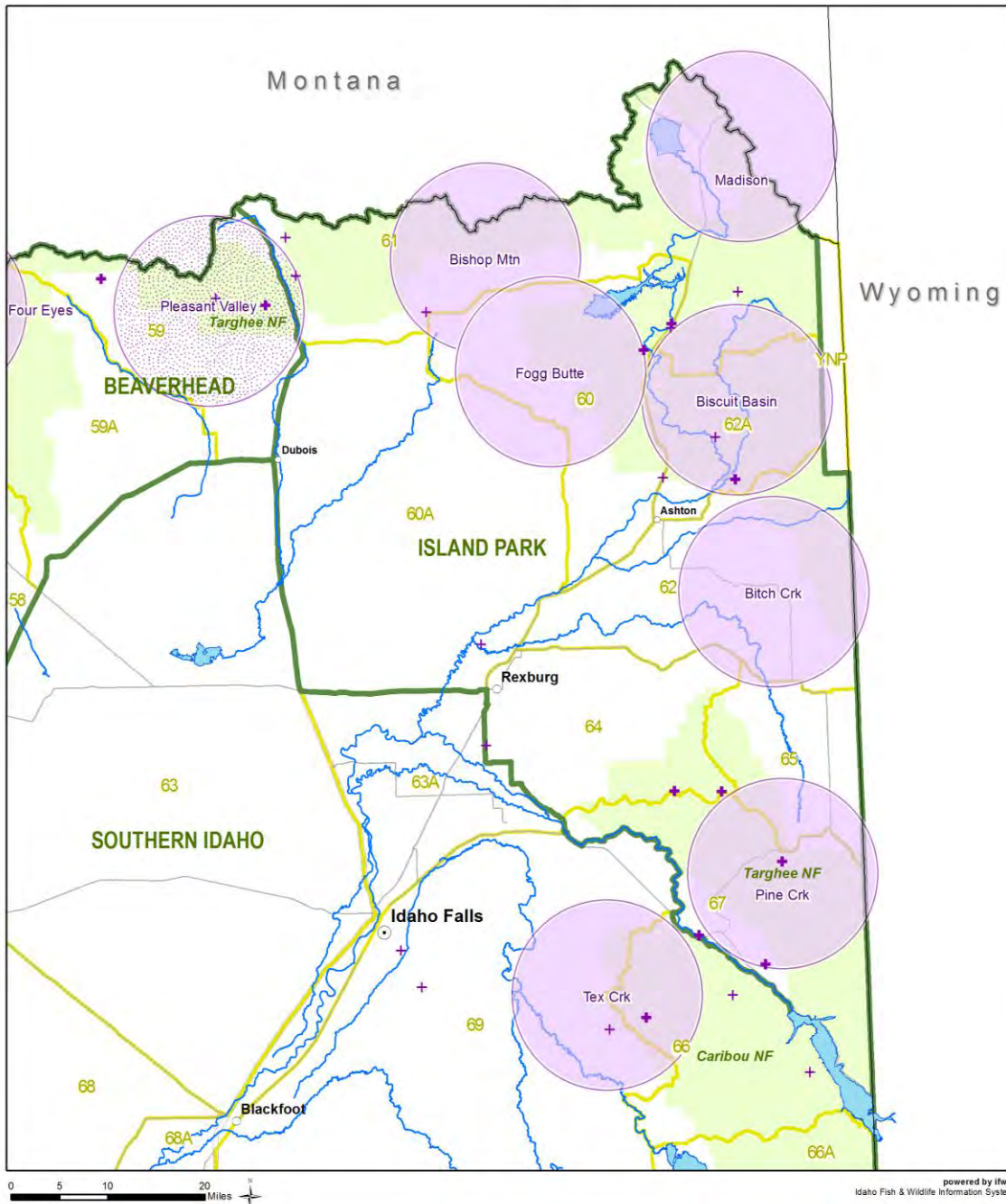
Monitoring Summary

The Island Park Zone was occupied by 6 documented packs (including 4 Idaho border packs) at the conclusion of 2014 (Figure 22, Table 24). Two border packs reported for Wyoming were presumed to spend some time in this zone. Four documented packs produced litters, one of which qualified as a breeding pair for 2014 (Table 24). The reproductive status for 2 packs was unknown, and the pack affiliation for one harvested pup was undetermined. One radiocollared wolf was known to have dispersed in 2014. Documented mortalities ($n = 16$) resulted from harvest ($n = 12$), other human ($n = 3$), and unknown causes ($n = 1$; Table 25). Eight confirmed wolf-caused domestic sheep losses occurred in the zone; 2 confirmed and one probable dog losses occurred in the zone (Table 25).

Island Park Wolf Activity

Documented, Suspected and Reported Locations¹

- | | |
|---|--|
| 2014 Estimated Locations² | 2013 - 14 Public Observations³ |
| Documented Pack | Single Wolf Observed |
| Suspected Pack | Multiple Wolves Observed |
| Terminated Pack | |



Notes
 1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
 2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.8 mile radius circles consistent with pack territories in Idaho.
 3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

Figure 22. Distribution of documented and suspected wolf packs in the Island Park Wolf Management Zone, 2014.

Table 24. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Island Park Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		Known dispersal
		Min. no. pups prod. (died) ^c	Breeding pair ^d	
Documented Pack				
Bechler (WY)				
Biscuit Basin	?	1(1)	UNK	0
Bishop Mountain (ID)	?	?	UNK	1
Bitch Creek (ID)	?	2(2)	UNK	0
Chagrin River (WY)				
Fogg Butte	10	2	YES	0
Madison (ID)	?	1(1)	UNK	0
Pine Creek (ID)	?	?	NO	0
Unknown		1(1)		
Subtotal	10	7(5)		1
Suspected Pack				
Subtotal	0			
Other Documented Group				
Subtotal	0			
WMZ Total	10	7(5)		1

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.). Border packs officially tallied to (STATE); territory known/likely shared with ID. Data on these packs can be found in Rocky Mountain Wolf Recovery 2014 Annual Report.

^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 25. Pups documented via mortality whose pack association could not be definitively assigned were designated as Unknown in DOCUMENTED PACK column, and were not counted towards the zone reproduction total to avoid potential double-counting only in cases where adjacent packs with documented pups could not be ruled out as the potential source for the unknown pup(s).

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...."

Table 25. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Island Park Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
60	0	0	1	0	1	0	0	0	0
60A	0	0	0	1	0	0	0	0	0
61	0	0	6	0	0	0	8	2(1)	0
62	0	0	5	0	0	0	0	0	0
62A	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0
65	0	0	0	2	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0
WMZ Total	0	0	12	3	1	0	8	2(1)	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

SOUTHERN IDAHO WOLF MANAGEMENT ZONE

GMUs 38, 40, 41, 42, 45, 46, 47, 52, 52A, 53, 54, 55, 56, 57, 63, 63A, 66, 66A, 68, 68A, 69, 70, 71, 72, 73, 73A, 74, 75, 76, 77, 78

Background

The Southern Idaho Zone includes the Snake River Plain, which comprises an area of heavy agricultural use with a metropolitan corridor along U.S. Interstate 84. The zone includes several mountain ranges spanning from the Owyhees in the west to the Portneufs in the east. These ranges might act as corridors for dispersing wolves, but potential for livestock conflicts could be high. The zone also contains some protected areas including Craters of the Moon National Monument and the Idaho National Laboratory. The climate tends to be hot and dry during summer and cold and wet during winter. Temperatures range from mild in the west to more severe in the east.

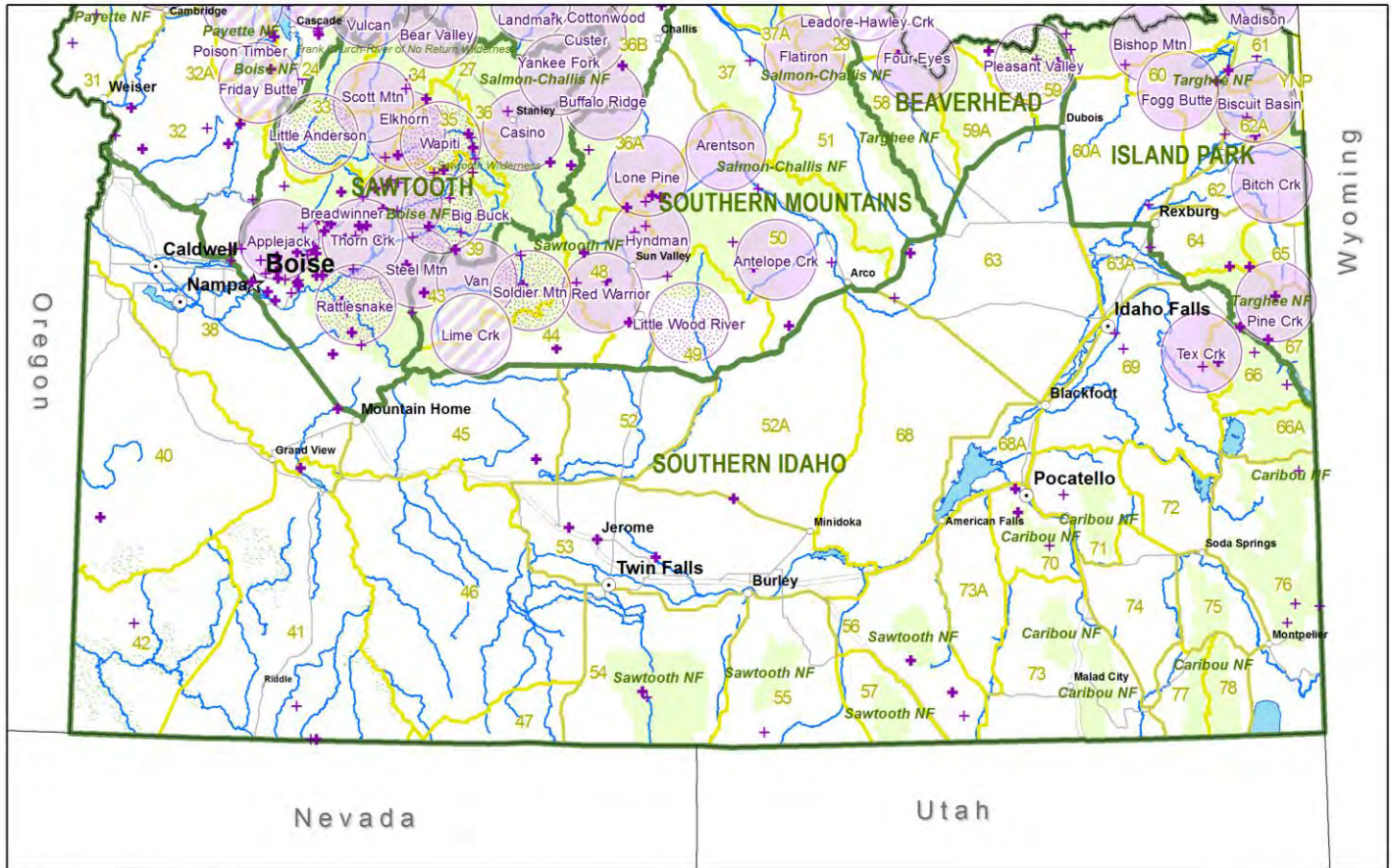
Monitoring Summary

One documented pack occupied the Southern Idaho Zone in 2014 (Figure 23, Table 26). Reproduction was documented in that pack in 2014, but it did not qualify as a breeding pair (Table 26). No radiocollared wolves were known to have dispersed in 2014. Documented mortalities ($n = 8$) were due to control (agency removal and legal take; $n = 5$), harvest ($n = 2$), and unknown causes ($n = 1$; Table 27). Twelve confirmed wolf-caused losses of domestic sheep occurred in this zone in 2014 (Table 27).

Southern Idaho Wolf Activity

Documented, Suspected and Reported Locations¹

- 2014 Estimated Locations²**
- Documented Pack
 - Suspected Pack
 - Terminated Pack
- 2013 - 14 Public Observations³**
- Single Wolf Observed
 - Multiple Wolves Observed



Notes

1. This map is provided for management purposes and should not be used for data analysis. Do not release these data to third parties without first contacting the Idaho Department of Fish and Game or the Nez Perce Tribe.
2. Estimated Pack Activity determined by biologists from monitoring locations, public observations, and incidental observations from 1/1/2013 - 12/31/2014. These are displayed as 9.9 mile radius circles consistent with pack territories in Idaho.
3. 2014 Public observations collected on the Idaho Fish and Game website and reviewed by staff biologists. Confirmed and possible observations from 1/1/2013 - 12/31/2014 are displayed.

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Figure 23. Distribution of documented and suspected wolf packs in the Southern Idaho Wolf Management Zone, 2014.

Table 26. Minimum number of wolves detected, reproductive status, and known dispersal for documented and suspected wolf packs and other documented wolf groups within the Southern Idaho Wolf Management Zone, 2014.

Wolf group ^a	Min. no. wolves detected ^b	Reproductive status		Known dispersal
		Min. no. pups prod. (died) ^c	Breeding pair ^d	
Documented Pack				
Tex Creek	?	3(3)	NO	0
Subtotal	0	3(3)	NO	0
Suspected Pack				
Subtotal	0			
Other Documented Group				
Subtotal	0			
WMZ Total	0	3(3)		0

^a Documented packs = territorial groups of wolves usually consisting of an adult male and female and their offspring from 1 or more generations, and has the potential to reproduce (2 adults of opposite sex). Suspected packs = geographic areas where wolf pack presence was suspected but not verified, or where wolf presence was verified but did not meet documented pack status. Other documented group = verified groups not meeting either documented or suspected pack status (e.g., lone wolves, potential mated pairs, etc.).^b Number of wolves detected by qualified agency personnel from monitoring flights or ground observations conducted during winter 2014/2015, documented late fall/early winter harvest mortality data, or verified observations; represents end of year (2014) data. Summing this row does not equate to number of wolves estimated to be present in the population.

^c Number in parentheses indicates known pup mortality; pup mortalities tallied in the appropriate row/column in Documented Mortality in Table 27.

^d Breeding pairs are the measure of Federal and State wolf recovery and management goals. A breeding pair is defined as "an adult male and a female wolf that have produced at least 2 pups that survive until December 31 of the year of their birth...."

Table 27. Documented wolf mortality and wolf-caused depredations by Game Management Unit within the Southern Idaho Wolf Management Zone, 2014.

GMU	Documented mortality					Confirmed (probable) wolf-caused losses			
	Natural	Control ^a	Harvest	Other human ^b	Unk.	Cattle	Sheep	Dogs	Other
38	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0
45	0	0	1	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0
52A	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0
63A	0	0	0	0	0	0	0	0	0
66	0	5	0	0	1	0	0	0	0
66A	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0
68A	0	0	0	0	0	0	0	0	0
69	0	0	1	0	0	0	12	0	0
70	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0
73A	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0
WMZ Total	0	5	2	0	1	0	12	0	0

^a Includes agency lethal control and legal or State-authorized take by landowners.

^b Includes all other human-related deaths exclusive of control and harvest.

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APPENDIX A. POPULATION ESTIMATION TECHNIQUE USED TO DETERMINE WOLF POPULATION NUMBERS IN IDAHO

From 1996 until 2005, the Idaho wolf population was estimated using a total count technique that was appropriate and feasible when wolf numbers were low and a substantial number of wolves were radiocollared. Since then, as the wolf population increased in size and distribution, we have used an estimation technique that is more feasible for a larger population that is more difficult to monitor. In 2006 we began using an estimation technique that has been peer reviewed by the University of Idaho and northern Rocky Mountain wolf managers. This technique relies on documented packs, mean or median pack size (mean or median of the sample pool of packs where pack counts are considered complete), number of wolves documented in small groups not considered packs, and an estimated percentage (12.5%; Mech and Boitani 2003, p. 170) of the population presumed to be lone wolves. The calculation uses a total count of wolves for those packs where we have a high degree of confidence that we observed all pack members, and applies the mean or median pack size to the remaining documented packs with incomplete counts. We use the statistical mean when number of packs with complete year-end counts is ≥ 20 ; otherwise median pack size is applied. Lastly, a multiplication factor of 1.125 is applied to account for lone wolves not associated with packs or smaller groups. Although this technique is feasible given the types of data we are able to collect, no measure of precision is available for this estimate. Mathematically this technique is represented as:

$$(D + (P * M) + G) * L$$

Where for 2014:

- D = 175** The number of wolves counted in documented packs with a complete count.
P = 77 Documented packs without a complete count. Number of documented packs extant at the end of 2014 was 104, complete pack size counts were obtained for 27 of those, leaving 77 packs with absent or presumed incomplete counts.
M = 6.5 Mean (or median) pack size.
G = 9 Total count of wolves in radiocollared groups of 2-3 wolves that were not considered packs under Idaho's definition.
L = 1.125 Lone wolf factor. The midpoint value from a range derived from 5 peer-reviewed studies and 4 non-reviewed papers from studies that occurred in North America (Mech and Boitani 2003).

Using this technique, 770 wolves were estimated in documented packs, documented groups, and lone wolves at the end of 2014.

APPENDIX B. CONTACTS FOR IDAHO WOLF MANAGEMENT

Idaho Fish and Game Headquarters Wildlife Bureau: (208) 334-2920

For information about wolves in Idaho and IDFG involvement or to report wolf sightings:

IDFG wolf management webpage: <http://fishandgame.idaho.gov/public/wildlife/wolves/>

IDFG wolf reporting webpage: <https://fishandgame.idaho.gov/ifwis/observations/wolf/>

The Nez Perce Tribe's Idaho Wolf Recovery Program:

Telephone: (208) 634-1061

Mail: 14054 Burr Road
McCall, ID 83638-1922

Email: cmack@nezperce.org

For information about the Nez Perce Tribe's Wildlife Program and to view Recovery Program Progress Reports, please visit the following website:

http://www.nezperce.org/programs/wildlife_program.htm

To report livestock depredations within Idaho:

USDA APHIS Wildlife Services State Director, Boise, ID
(866) 4US-DAWS or (208) 373-1630

To report information regarding the illegal killing of a wolf or a dead wolf within Idaho:

Citizens Against Poaching (24hr) 1-800-632-5999 or any IDFG Office

U.S. Fish and Wildlife Service Northern Rocky Mountain Wolf Recovery:

For information about wolf recovery in the Northern Rocky Mountains, please visit the USFWS website: <http://www.westerngraywolf.fws.gov/>

USFWS Idaho State Office: (877) 661-1908