

**Table 1a: Northwest Montana wolf recovery area: Wolf packs and population data 2002**

WOLF PACK <sup>1</sup>	RECOV	AREA	PACK SIZE DEC 2002				TOT	MORTALITIES			KNOWN				CONTROL			CONFIRMED LOSSES <sup>5</sup>		
			STATE	ADULT	PUP			NAT	HUMAN <sup>2</sup>	UNKN <sup>3</sup>	DISPERSED	MISSING <sup>4</sup>	KILLED	MOVED	CATTLE	SHEEP	DOG	LLAMA		
<u>Kintla</u>	NWMT	MT	4	2	2	6	1													
Murphy Lake	NWMT	MT	3	3	3	6		1												
<u>Ninemile</u>	NWMT	MT	3	2	2	5		9												
<u>Castle Rock</u>	NWMT	MT	5	3	3	8		2		1										
<u>Whitefish</u>	NWMT	MT	3	3	3	6		1												
Grave Creek	NWMT	MT	4	1	1	5														
<u>Spotted Bear</u>	NWMT	MT	3	2	2	5		1												
Fishtrap	NWMT	MT	4	0	0	4														
<u>RedShale (Gates)</u>	NWMT	MT	8	6	6	14														
<u>Fish Creek</u>	NWMT	MT	3	2	2	5														
Lupine	NWMT	MT	4	0	0	4														
Yaak	NWMT	MT	2	0	0	2		4		6										
Lonepine (L. Thom)	NWMT	MT	0	0	0	3		1												
Lazy Creek	NWMT	MT	2	1	1	3														
<u>Hog Heaven</u>	NWMT	MT	2	5	5	7														
<u>Green Mtn (Trout)</u>	NWMT	MT	2	4	4	6		1												
<u>Great Divide</u>	NWMT	MT	2	4	4	6		1												
Halfway	NWMT	MT	1	5	5	6		2												
Blanchard Creek	NWMT	MT				?		1												
Potomac	NWMT	MT	1	0	0	1		1												
Chief Mountain	NWMT	MT	5	0	0	5														
Ural	NWMT	MT				?														
Misc/Lone	NWMT	MT	1	0	0	1		1												
Total	NWMT	MT	62	43	43	108		1	26	0	7	6	9	0	9	13	4	5		

<sup>1</sup> Underlined packs are counted as breeding pairs toward recovery goals.

<sup>2</sup> Includes 9 wolves killed in control actions.

<sup>3</sup> Does not include pups that disappeared before winter.

<sup>4</sup> Collared wolves that became missing in 2002.

<sup>5</sup> Another 2 cattle and 5 sheep were classified as probable wolf depredation.

**Table 1b: Montana outside of NWMT recovery area (and statewide totals): Wolf packs and population data 2002**

WOLF PACK <sup>1</sup>	RECOV	PACK SIZE DEC 2002			MORTALITIES			CONTROL			CONFIRMED LOSSES <sup>5</sup>						
		AREA	STATE	ADULT	PUP	TOT	NATURAL	HUMAN <sup>2</sup>	UNKN <sup>3</sup>	DISPERSED	MISSING <sup>4</sup>	KILLED	MOVED	CATTLE	SHEEP	DOGS	LLAMA
<u>Taylor Peaks</u>	GYA	MT	2	2	4		1		2				1				1
<u>Sentinel</u>	GYA	MT	2	4	6												
<u>Freezout</u>	GYA	MT	3	6	9		2						2	2			
<u>Gravelly Range</u>	GYA	MT			0		7						7				32
<u>Mill Creek</u>	GYA	MT			8		3						3				18
<u>Sheep Mountain</u>	GYA	MT		?	9		4	1					2	4			1
<u>Red Lodge</u>	GYA	MT			4												3
<u>Lone Bear</u>	GYA	MT		2	8												1
<u>Mission Creek</u>	GYA	MT	3	0	3												
<u>Beartrap</u>	GYA	MT		1	4												
<u>Misc/Lone</u>	GYA	MT					1						1				19
<u>total in GYA</u>	GYA	MT	10	15	55	0	18	1	2	2	2	17	0	10	71	1	0
<u>Como Lake</u>	CID	MT/ID	2	3	5												
<u>Sapphire (EFBittroot)</u>	CID	MT		?	5												
<u>Painted Rocks (WFB)</u>	CID	MT		?	5		1										
<u>Battlefield</u>	CID	MT	3	0	3		1										1
<u>Willow</u>	CID	MT	3	0	3												
<u>Misc/Lone</u>	CID	MT			0												
<u>total in CID</u>	CID	MT	8	3	21	0	2	0	0	0	0	0	0	1	0	0	0
<u>NWMT (Table 1a)</u>	NWMT	MT	62	43	108	1	26	0	7	6	9	0	9	13	4		5
<u>MT TOTAL</u>	ALL	MT	80	61	184	1	46	1	9	8	26	0	20	84	5		5

<sup>1</sup> Underlined packs are counted as breeding pairs toward recovery goals.

<sup>2</sup> Includes 26 wolves killed in control actions (4 by ranchers, 22 in government actions).

<sup>3</sup> Does not include pups that disappeared before winter.

<sup>4</sup> Collared wolves that became missing in 2002.

<sup>5</sup> Another 6 cattle and 39 sheep (statewide) were classified as probable wolf depredation.

**Table 2: Wyoming wolf packs and population data 2002.**

WOLF PACK <sup>4</sup>	RECOV				PACK SIZE JAN 2002				MORTALITIES				KNOWN				CONTROL				CONFIRMED LOSSES <sup>3</sup>			
	AREA	STATE	ADULT	PUP	TOT	TOT	NATURAL	HUMAN <sup>1</sup>	UNKN	DISPERSED	MISSING <sup>2</sup>	KILLED	MOVED	CATTLE	SHEEP	DOGS								
<u>Druid Peak</u>	GYA	WY	8	3	11				9	1														
<u>Rose Creek II</u>	GYA	WY/MT	7	3	10																			
<u>Tower</u>	GYA	WY	2	0	2				1	2														
<u>Leopold</u>	GYA	WY	8	8	16		1		4															
<u>Swan Lake</u>	GYA	WY	5	11	16																			
<u>Mollie's</u>	GYA	WY	10	2	12				2	1														
<u>Chief Joseph</u>	GYA	WY/MT	2	8	10		1	1	4	1														
<u>Nez Perce</u>	GYA	WY	15	3	20				3	1														
<u>Cougar Creek</u>	GYA	WY	5	5	10																			
<u>Yellowstone Delta</u>	GYA	WY	10	4	14				1	1														
<u>Agate Creek</u>	GYA	WY	6	4	10																			
<u>Bechler</u>	GYA	WY	2	2	4																			
<u>Geode Creek</u>	GYA	WY	6	3	9		1																	
<u>Slough Creek</u>	GYA	WY	4	0	4																			
<u>Loners Inside YNP</u>	GYA	WY	0	0	0		1																	
<u>Total in YNP</u>	GYA	WY	90	56	148		4	1	24	7	0	0	0	0	0	0								
<u>Teton</u>	GYA	WY	3	11	14				5	4						3								
<u>Gros Ventre</u>	GYA	WY	3	0	3																			
<u>Washakie</u>	GYA	WY	10	5	15			3	3	2	3					5								
<u>Sunlight Basin</u>	GYA	WY	8	4	12			3			3					4								
<u>Absaroka</u>	GYA	WY	6	3	9			1																
<u>Beartooth</u>	GYA	WY	4	3	7																			
<u>Greybull River</u>	GYA	WY	4	3	7																			
<u>Green River</u>	GYA	WY	2	0	2																			
<u>Misc outside YNP</u>	GYA	WY	0	0	0											11								
<u>Total outside YNP</u>	GYA	WY	38	29	69		0	7	8	6	6	0	0	23	0	0								
<b>WYOMING TOTAL</b>	GYA	WY	128	85	217		4	8	0	32	13	6	0	23	0	0								

1 Underlined packs are counted as breeding pairs toward recovery goals.  
 2 Includes 6 wolves killed in control actions.  
 3 Collared wolves that became missing in 2002  
 4 Another 4 calves were identified as probable wolf depredation.

**Table 3: Idaho wolf packs and population data 2002**

WOLF PACK <sup>1</sup>	RECOV AREA	STATE	PUPS PROD	EST PACK SIZE	MORTALITIES			KNOWN			CONTROL			CONFIRMED LOSSES <sup>4</sup>			
					NATURAL	HUMAN <sup>2</sup>	UNKN	DISPERSED	MISSING <sup>3</sup>	KILLED	MOVED	CATTLE	SHEEP	DOGS			
<u>Big Hole</u>	C. ID	ID	3	9													
Chamberlain Basin	C. ID	ID	?	?													
Jureano Mountain	C. ID	ID	5	5	1	3						2	2				
Kelly Creek	C. ID	ID	6	9+													
<u>Landmark</u>	C. ID	ID	11	18													
Marble Mountain	C. ID	ID	3	6+				2									
<u>Moyer Basin</u>	C. ID	ID	4	6					1								
Orphan	C. ID	ID	0	3-4													
<u>Selway</u>	C. ID	ID	3	7								1					
Thunder Mountain	C. ID	ID	0	3	1				1								1
Whitehawk Mtn	C. ID	ID	0	0		10							10			2	1
Wildhorse	C. ID	ID	0	4+					1			1					
Wolf Fang	C. ID	ID	?	7-8					1		1						
Gold Fork	C. ID	ID	0	4-5													
<u>Gospel Hump</u>	C. ID	ID	3	11													
Scott Mountain	C. ID	ID	2	3													1
<u>Buffalo Ridge</u>	C. ID	ID	7	9													
<u>Five Lakes Butte</u>	C. ID	ID	2	4+													
B45	C. ID	ID	0	2													
B105	C. ID	ID	0	2-3													
B133	C. ID	ID	0	2		2							2			11	1
Lone/Unknown	C. ID	ID	0			2									1	3	1
<b>TOTAL</b>	C. ID	ID	49	263	2	17	5	2	4	14	0	9	15	4			

<sup>1</sup> Underlined packs are counted as breeding pairs toward recovery goals.

<sup>2</sup> Includes 14 wolves killed in control actions.

<sup>3</sup> Collared wolves that became missing in 2002

<sup>4</sup> Another 7 calves were classified as probable wolf depredation.

**Table 4a: Northern Rocky Mountain States minimum fall wolf population and breeding pairs, \* 1979-2002**

Minimum fall wolf population by recovery area:

Year:	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02
<u>Recovery Area:</u>																								
NW MONTANA	2	1	2	8	6	6	13	15	10	14	12	33	29	41	55	48	66	70	56	49	63	64	84	108
YELLOWSTONE																	21	40	86	112	118	177	218	271
CENTRAL IDAHO																	14	42	71	114	156	196	261	284
TOTAL	2	1	2	8	6	6	13	15	10	14	12	33	29	41	55	48	101	152	213	275	337	437	563	663

Breeding pairs:

Year:	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02
<u>Recovery Area:</u>																								
NW MONTANA								1	2	1	1	3	2	4	4	5	6	7	5	5	6	6	7	11
YELLOWSTONE																	2	4	9	6	8	14	13	23
CENTRAL IDAHO																		3	6	10	10	10	14	9
TOTAL								1	2	1	1	3	2	4	4	5	8	14	20	21	24	30	34	43

\* By the standards of the Rocky Mountain gray wolf recovery plan and wolf reintroduction environmental impact statement, a breeding pair is defined as an adult male and an adult female wolf, accompanied by 2 pups that survived at least until Dec 31. Recovery goals call for 10 breeding pairs per area, or a total of 30 breeding pairs distributed through the 3 areas, for 3 years.

Breeding pair count was increased from 23 to 24 for the year 1999, after it was discovered, in 2000, that the Boulder Pack (NWMT) had bred and raised pups the previous year.

Breeding pair count was increased from 28 to 30 for the year 2000, after it was discovered, in 2001, that the Gravelly Pack (GYE) and the Gold Fork Pack (CID) had bred and raised pups the previous year.

**Table 4b: Northern Rocky Mountains minimum fall wolf population and breeding pairs\* (by state), 1979-2002**

Minimum fall wolf population by state

Year:	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	
State:																									
MT	2	1	2	8	6	6	13	15	10	14	12	33	29	41	55	48	66	70	56	49	74	97	123	183	
WY																	21	40	86	112	107	153	189	217	
ID																	14	42	71	114	156	187	251	263	
TOTAL	2	1	2	8	6	6	13	15	10	14	12	33	29	41	55	48	101	152	213	275	337	437	563	663	

Breeding pairs by state:

Year:	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02
State:																								
MT								1	2	1	1	3	2	4	4	5	6	7	5	5	7	8	7	16
WY																	2	4	9	6	7	12	13	18
ID																		3	6	10	10	10	14	9
TOTAL	0	0	0	0	0	0	0	1	2	1	1	3	2	4	4	5	8	14	20	21	24	30	34	43

\* By the standards of the Rocky Mountain gray wolf recovery plan and wolf reintroduction environmental impact statement, a breeding pair is defined as an adult male and an adult female wolf, accompanied by 2 pups that survived at least until Dec 31. Recovery goals call for 10 breeding pairs per area, or a total of 30 breeding pairs distributed through the 3 areas, for 3 years.

Breeding pair count was increased from 23 to 24 for the year 1999, after it was discovered, in 2000, that the Boulder Pack (NWMT) had bred and raised pups the previous year.

Breeding pair count was increased from 28 to 30 for the year 2000, after it was discovered, in 2001, that the Gravelly Pack (GYE) and the Gold Fork Pack (CID) had bred and raised pups the previous year.

**Table 5a: Northern Rocky Mountain States:**

**Confirmed wolf depredation<sup>1</sup> and wolf management, 1987-2002 (by recovery area).**

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
<u>Northwest Montana Recovery Area:</u>																	
cattle	6	0	3	5	2	1	0	6	3	9	16	9	13	10	8	9	100
sheep	10	0	0	0	2	0	0	0	0	0	30	0	19	2	5	13	81
dogs	0	0	0	1	0	0	0	0	3	1	0	0	2	3	1	4	15
llamas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	9
wolves moved	0	0	4	0	3	0	0	2	2	10	7	0	4	0	5	0	37
wolves killed	4	0	1	1	0	0	0	0	0	4	14	4	9	4	3	9	53
<u>Yellowstone Recovery Area:</u>																	
cattle									0	0	5	3	4	7	22	33	74
sheep									0	13	67	7	13	39	117	71	327
dogs									1	0	0	4	7	8	4	1	25
wolves moved									6	8	14	0	0	6	8	0	42
wolves killed									0	1	6	3	9	6	9	23	57
<u>Central Idaho Recovery Area:</u>																	
cattle									0	2	1	9	16	15	10	10	63
sheep									0	24	29	5	57	39	16	15	185
dogs									0	1	4	1	6	0	1	4	17
wolves moved									0	5	0	3	15	10	5	0	38
wolves killed									0	1	1	0	5	10	7	14	38
<u>Total, 3 Recovery Areas:</u>																	
cattle	6	0	3	5	2	1	0	6	3	11	22	21	33	32	40	52	237
sheep	10	0	0	0	2	0	0	0	0	37	126	12	89	80	138	99	593
dogs	0	0	0	1	0	0	0	0	4	2	4	5	15	11	6	9	57
llamas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	9
wolves moved	0	0	4	0	3	0	0	2	8	23	21	3	19	16	18	0	117
wolves killed <sup>2</sup>	4	0	1	1	0	0	0	0	0	6	21	7	23	20	19	46	148

<sup>1</sup> Numbers of animals confirmed killed by wolves in calendar year. Probable damages are shown in Tables 1a, 1b, 2, and 3 (footnotes).

<sup>2</sup> Includes 7 wolves legally shot by ranchers. Others killed in government control efforts.

Since 1987, Defenders of Wildlife has made compensation payments totalling more than \$270,000 for wolf damage to livestock and guard dogs. Information on the compensation program is available at <http://www.defenders.org/wolfcomp.html>

**Table 5b: Northern Rocky Mountain States:**

**Confirmed wolf depredation<sup>1</sup> and wolf management, 1987-2002 (by state).**

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	TOTAL
<u>Montana</u>																	
cattle	6	0	3	5	2	1	0	6	3	10	19	10	20	14	12	20	131
sheep	10	0	0	0	2	0	0	0	0	13	41	0	25	7	50	84	232
dogs	0	0	0	1	0	0	0	0	4	1	0	1	2	5	2	5	21
llamas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	9
wolves moved	0	0	4	0	3	0	0	2	8	22	20	0	14	6	17	0	96
wolves killed	4	0	1	1	0	0	0	0	0	5	18	4	19	7	8	26	93
<u>Wyoming</u>																	
cattle									0	0	2	2	2	3	18	23	50
sheep									0	0	56	7	0	25	34	0	122
dogs									0	0	0	3	6	6	2	0	17
wolves moved									0	0	1	0	0	0	0	0	1
wolves killed									0	0	2	3	1	2	4	6	18
<u>Idaho</u>																	
cattle									0	1	1	9	11	15	10	9	56
sheep									0	24	29	5	64	48	54	15	239
dogs									0	1	4	1	7	0	2	4	19
wolves moved									0	1	0	3	5	10	1	0	20
wolves killed									0	1	1	0	3	11	7	14	37
<u>Total, 3 States</u>																	
cattle	6	0	3	5	2	1	0	6	3	11	22	21	33	32	40	52	237
sheep	10	0	0	0	2	0	0	0	0	37	126	12	89	80	138	99	593
dogs	0	0	0	1	0	0	0	0	4	2	4	5	15	11	6	9	57
llamas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	9
wolves moved	0	0	4	0	3	0	0	2	8	23	21	3	19	16	18	0	117
wolves killed <sup>2</sup>	4	0	1	1	0	0	0	0	0	6	21	7	23	20	19	46	148

<sup>1</sup> Numbers of animals confirmed killed by wolves in calendar year. Probable damages are shown in Tables 1a, 1b, 2, and 3 (footnotes).

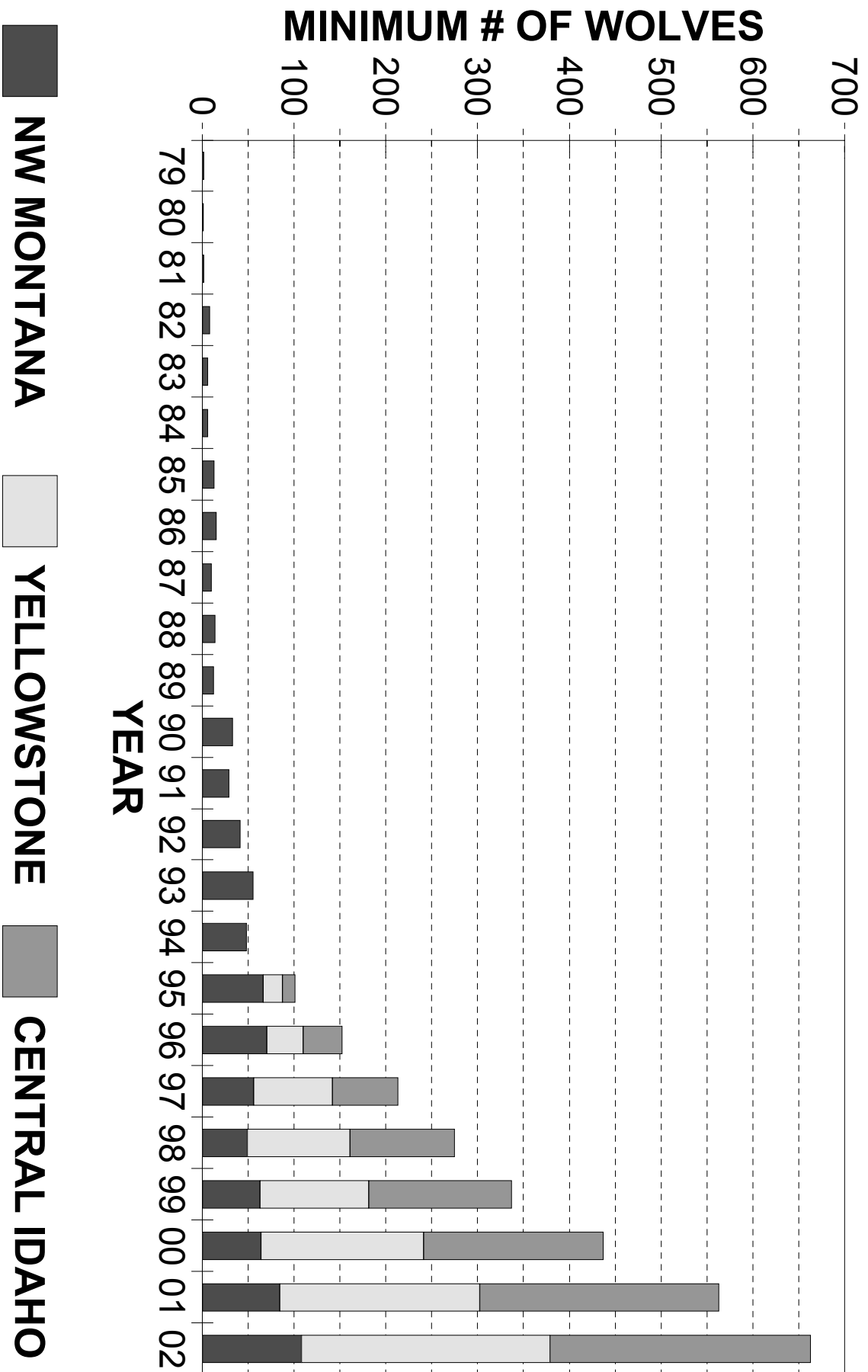
<sup>2</sup> Includes 7 wolves legally shot by ranchers. Others killed in government control efforts.

Since 1987, Defenders of Wildlife has made compensation payments totalling more than \$270,000 for wolf damage to livestock and guard dogs. Information on the compensation program is available at <http://www.defenders.org/wolfcomp.html>



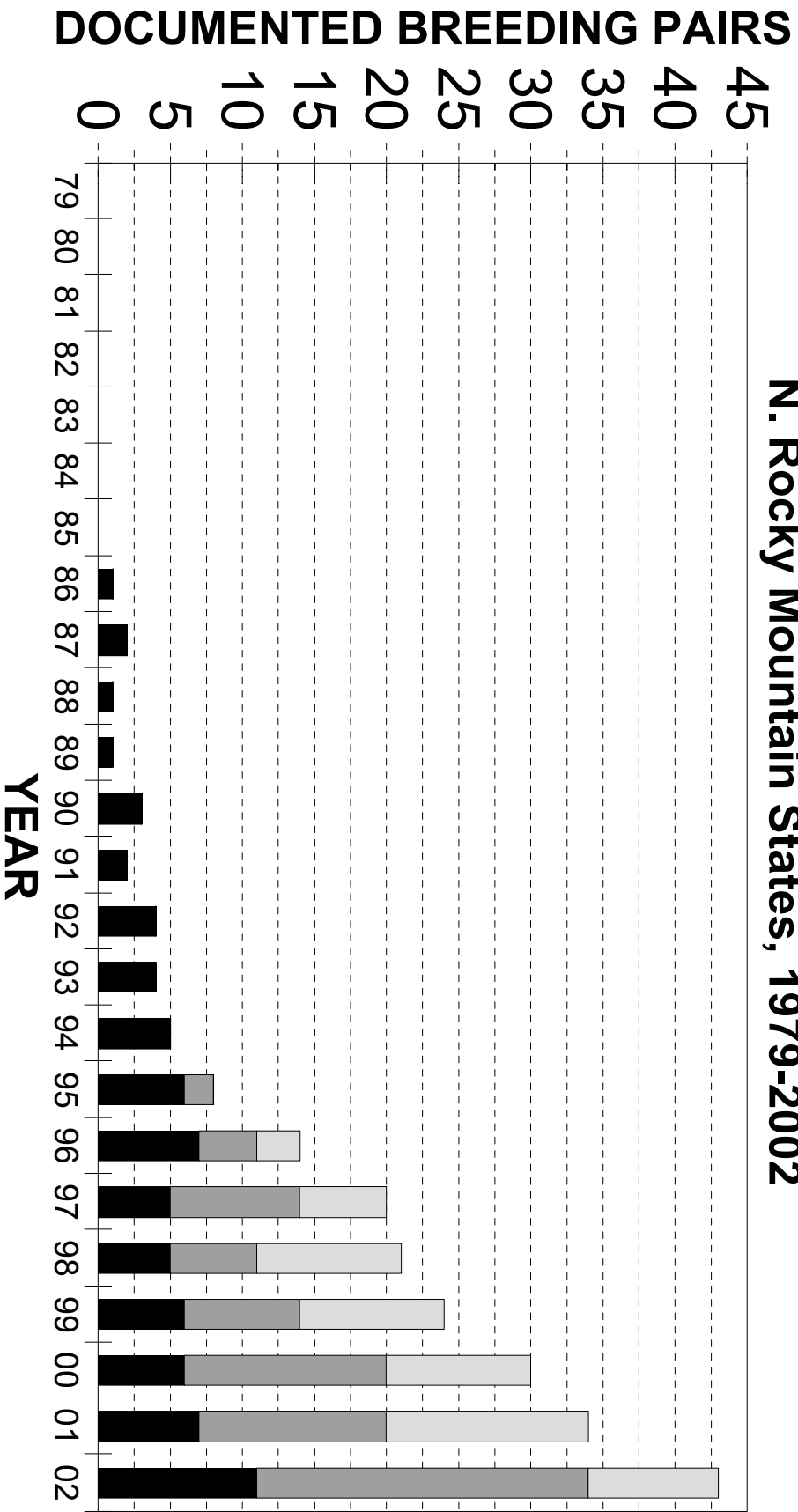
# Figure 5: Wolf Population Trends

N. Rocky Mountain States, 1979-2002



# Wolf Breeding Pairs

N. Rocky Mountain States, 1979-2002



NW MONTANA



YELLOWSTONE



CENTRAL IDAHO

Figure 1. Central Idaho, Northwest Montana, and Greater Yellowstone Wolf Recovery Areas.

Wolf pack numbers by recovery area

Central Idaho	Northwest Montana	Greater Yellowstone
1 Marble Mountain	1 Kootenai	1 Lone Bear
2 Five Lakes Butte	2 Grave Creek	2 Bearatrap
3 Kelly Creek	3 Kintla	3 Chief Joseph
5 Big Hole	4 Whitefish	4 Mill Creek
6 Willow	5 Chief Mountain	5 Sheep Mountain
7 Sapphire	6 Lazy Creek	6 Gravelly Range
8 Lake Como	7 Murphy Lake	7 Freezeout
9 Selway	8 Ural	8 Taylor Peaks
10 Gospel Hump	9 Yaak	9 Sentinel
11 Painted Rocks	10 Green Mountain	10 Swan Lake
12 Battlefield	11 Fishtrap	11 Rose Creek II
13 Jureano	12 Hog Heaven	12 Leopold
14 Chamberlain Basin	13 Lonepine	13 Geode Creek
15 Wolf Fang	14 Spotted Bear	14 Slough Creek
16 Moyer Basin	15 Red Shale	15 Beartooth
17 Thunder Mountain	16 Fish Creek	16 Red Lodge
18 Gold Fork	17 Ninemile	17 Sunlight Basin
19 Orphan	18 Potomac	18 Absaroka
20 Landmark	19 Halfway	19 Mollie's
21 Scott Mountain	20 Castle Rock	20 Druid Peak
22 Buffalo Ridge	21 Great Divide	21 Agate Creek
23 Whitehawk	22 Lupine	22 Tower
24 Wildhorse	23 Blanchard Creek	23 Nez Perce
		24 Cougar Creek
		25 Bechler
		26 Yellowstone Delta
		27 Greybull River
		28 Washakie
		29 Green River
		30 Teton
		31 Gros Ventre
		32 Mission Creek

Figure 1. Central Idaho, Northwest Montana and Greater Yellowstone Wolf Recovery Areas

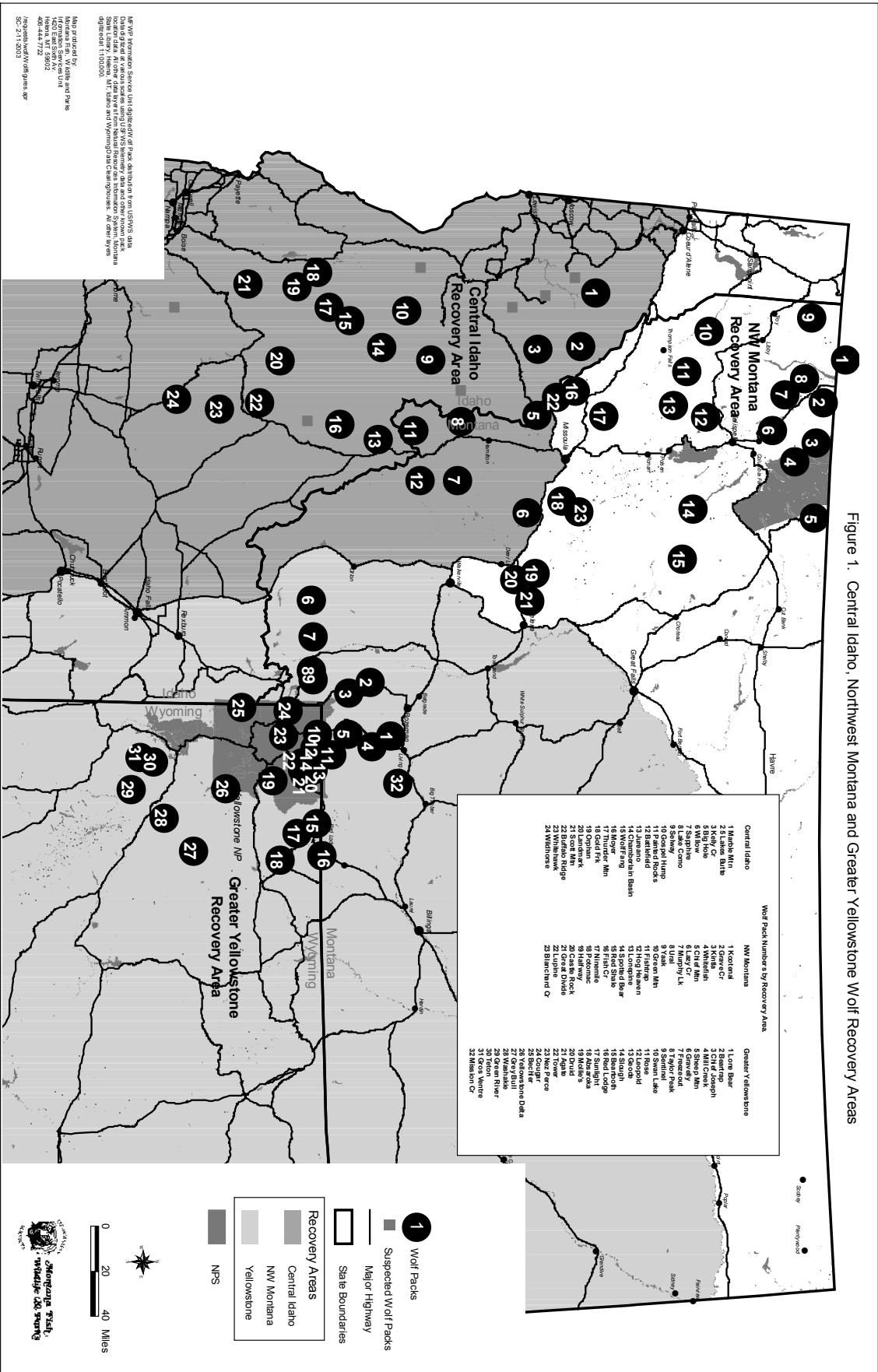
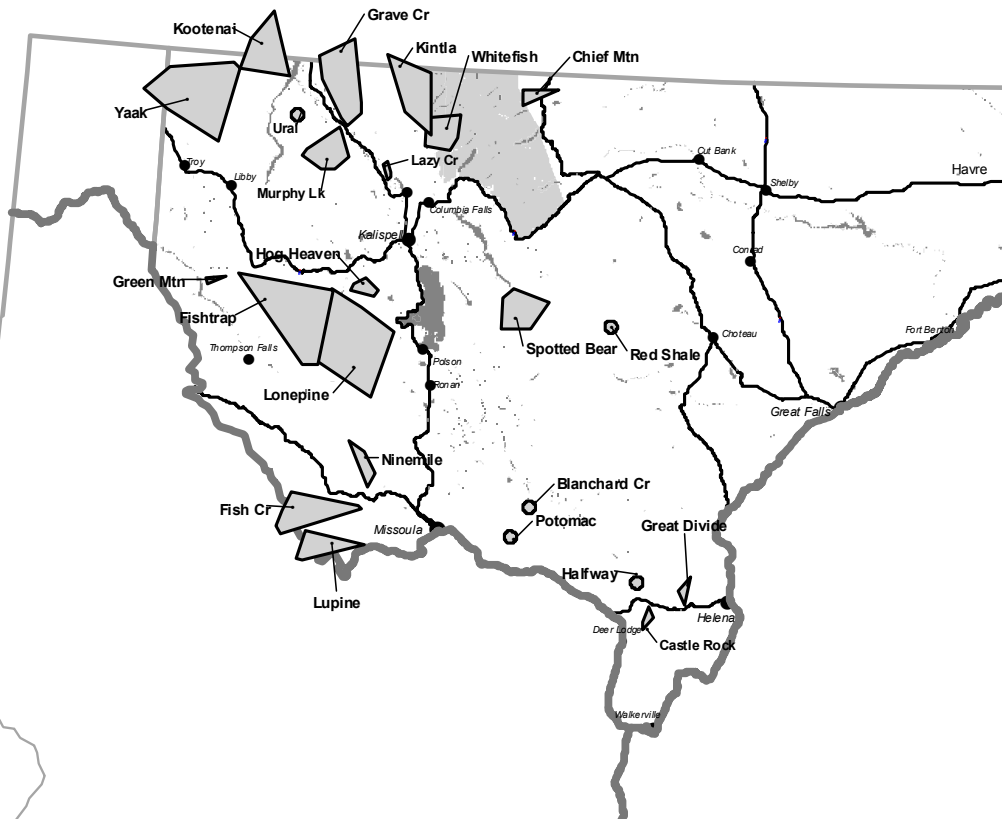


Figure 2. NW Montana Wolf Recovery Area



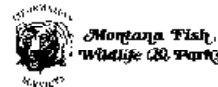
MFWP Information Service Unit digitized Wolf Pack distribution from USFWS data. Data digitized at various scales using USFWS telemetry data and other known pack location data. All other data layers from Natural Resources Information System, Montana State Library, Helena, MT, Idaho and Wyoming Data Clearinghouses. All other layers digitized at 1:100,000.

Wolf Pack Distribution  
 Wolf Recovery Area Boundary  
 Slate Boundary

Map produced by:  
 Montana Fish, Wildlife and Parks  
 Information Services Unit  
 1420 East Sixth Av.  
 Helena, MT 59602  
 406-444-7722

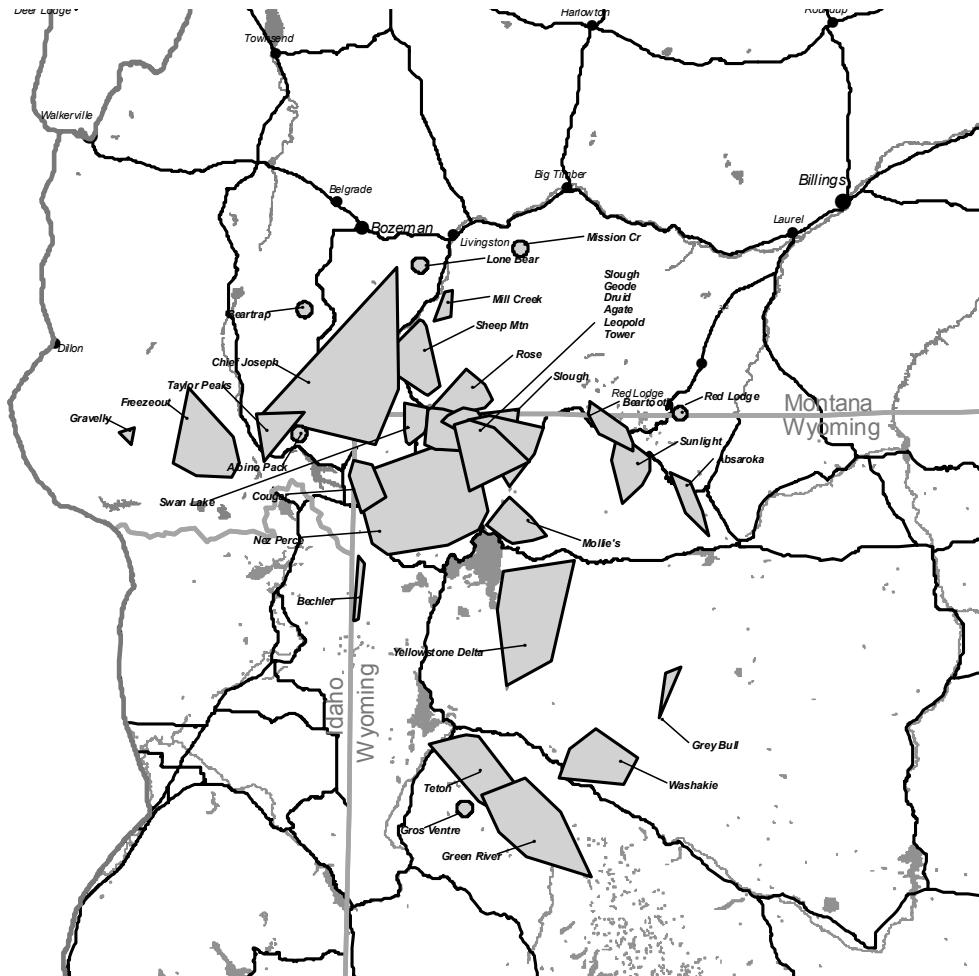


0 10 20 Miles



requests wolf/W d\Figures.apr  
 SC- 2-27-03

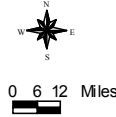
Figure 3. Greater Yellowstone Wolf Recovery Area



MEWP Information Service Unit digitized Wolf Pack distribution from USFWS data. Data digitized at various scales using USFWS telemetry data and other known pack location data. All other data layers from Natural Resources Information System, Montana State Library, Helena, MT, Idaho and Wyoming Data Clearinghouses. All other layers digitized at 1:100,000.

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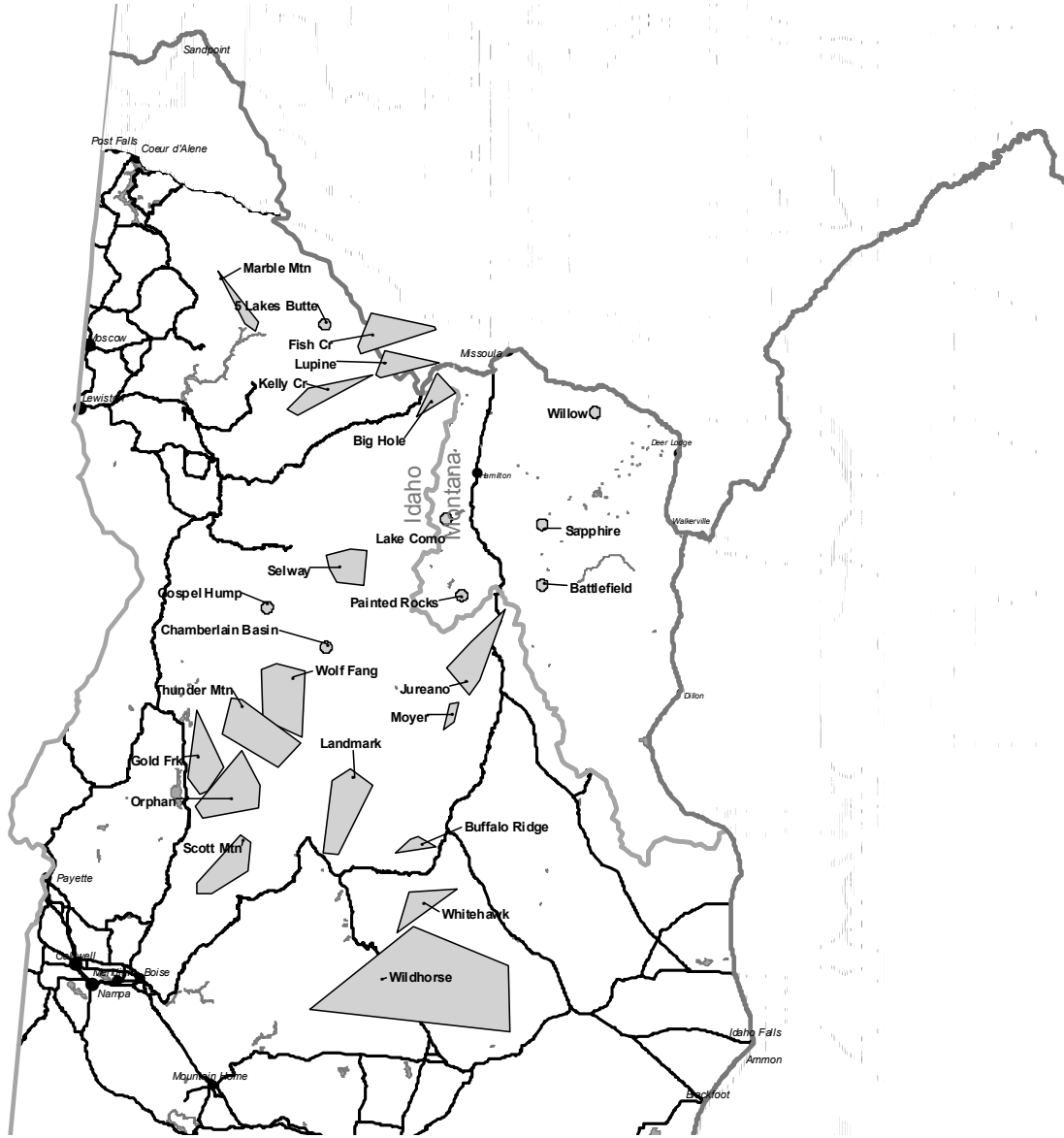
/requests/wolf/WdfFigures.apr  
SC- 2-27-03



Wolf Pack Distribution  
 Wolf Recovery Area Boundary  
 State Boundary



Figure 4. Central Idaho Wolf Recovery Area






MFWP Information Service Unit digitized Wolf Pack distribution from USFWS data. Data digitized at various scales using USFWS telemetry data and other known pack location data. All other data layers from Natural Resources Information System, Montana State Library, Helena, MT, Idaho and Wyoming Data Clearinghouses. All other layers digitized at 1:100,000.

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/requests/wolf/wdf\_figs.apr  
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0 10 20 Miles

-  Wolf Pack Distribution
-  Wolf Recovery Area Boundary
-  State Boundary

