

U.S. Fish and Wildlife Service
Northern Rocky Mountain
Recovery Program Update
2009

Suggested Citation: U.S. Fish and Wildlife Service, Nez Perce Tribe, National Park Service, MT Fish, Wildlife & Parks, ID Fish and Game, and USDA Wildlife Services. 2010. Pages 1-18 *in* U.S. Fish and Wildlife Service et al. 2010. C.A. Sime and E. E. Bangs, eds. Rocky Mountain Wolf Recovery 2009 Annual Report. USFWS, Ecological Services, 585 Shepard Way, Helena, MT. 59601.

DISPERSAL AND OTHER POSSIBLE WOLF ACTIVITY ADJACENT TO MT, ID, AND WY

Although individual wolves can disperse over 680 miles from their natal pack, with actual travel distances exceeding 6,000 miles, the average dispersal distance of northern Rocky Mountain [NRM] wolves is about 60 miles. Only a dozen or so confirmed NRM wolf dispersal events from 1992 through 2009 have been over 190 miles and resulted in wolves going beyond the core NRM wolf population in MT, ID, or WY. Undoubtedly many other dispersal events have occurred but have not been detected because <30% of the NRM wolf population has been radio-collared and it is difficult to locate lone wolves that have dispersed. Nearly all dispersing wolves remained within the NRM DPS (eastern one-third of WA & OR, a small part of northcentral UT, and all of MT, ID, and WY).

Until 2008, no wolf packs had been confirmed in WA or OR. However, in July 2008, a wolf pack (Lookout Pack) with 3 adults and 6 pups was discovered near Twisp, WA, on the east slope of the North Cascades just west of the DPS boundary. Genetic testing of the breeding male indicates a possible coastal/southern British Columbia origin; and the breeding female is similar to animals in northeastern British Columbia/northwestern Alberta. Both breeding adults were radio-collared in 2008 and continue to be monitored via radio telemetry by the U.S. Forest Service and WA Department of Fish and Wildlife. Home range size is approximately 350 square miles. The pack spends most of the year at lower elevations in response to the wintering distribution of deer and den site location. In 2009, the pack moved to higher elevations (where prey are more abundant in summer and fall) from mid-August to early November after the pups become more mobile. The pack consisted of 2 breeding adults and a yearling in spring 2009. A maximum of 4 pups was confirmed in September. These 7 individuals remained in the pack through December. Confirmed food items during the year included deer, a wild turkey, and salmon (in November). This pack's territory is in the area of Washington that remains listed as endangered under the ESA.

In July 2009, a second pack (Diamond Pack) was confirmed along the border of WA and northern ID about 140 miles east of the Lookout Pack. An ARGOS/GPS collar was placed on the breeding male, which was captured near a rendezvous site in July. Telemetry data collected to date indicate that roughly 90% of the pack's home range occurs in WA, with the remainder in ID. Home range size for the 6-month period monitored in 2009 was about 220 square miles. DNA analyses indicate that the male is linked genetically to the wolf population in southern Alberta, northwestern MT, and northern ID. Two adults and at least 3 pups were present in July 2009, and pack size remained at five in December. This pack's territory is within the NRM DPS that was delisted from the ESA in 2009.

OR confirmed its first breeding pair of wolves in 2009. The Imnaha pack [15 miles east of Joseph, OR] was also certainly a successful breeding pair in 2008 because it contained 5 adult-sized wolves in 2009. The breeding female of the pack is the radio-collared B300, originally collared in ID. In July 2009 she was recaptured by ODFW and fitted with a new radio collar.

She had recently had pups. ODFW confirmed the Imnaha Pack has 10 members in Fall 2009, 5 of them pups. Wolves also continue to inhabit the Wenaha Unit of northeast OR (20 mi west of Troy, OR), though no pack members have been radio-collared yet. The minimum estimate for the Wenaha pack is four wolves; pups were not confirmed in 2009. ODFW will attempt to radio-collar members of this pack. In April 2009 a pair of wolves was confirmed to have depredated livestock in the Keating Valley of Baker County, OR. One was captured and radio-collared. After significant agency efforts to stop the ongoing depredations (eventually totaling 1 calf, 28 sheep, and a goat) through non-lethal means, ODFW authorized WS to lethally remove both wolves in September 2009. That incident marked the first confirmed wolf depredation of livestock in modern OR history. All Oregon packs were within the NRM DPS that was delisted from the ESA in 2009.

Two notable wolf dispersal events were documented in 2009. A radio-collared male wolf from central ID (whose father had dispersed to central ID from YNP) bred with a female just east of YNP and had pups in early 2009. As part of a cooperative research project with the University of MT, several wolves were fitted with GPS radio-collars in 2008/09. The collars provide satellite downloads of locations every two weeks. In fall 2008, a yearling grey female from this study dispersed from the Mill Creek pack on the east side of the Yellowstone River between Gardiner and Livingston in southwest MT. She traveled south through western WY, southeastern ID, and northern UT. By late April 2009, she was near Vail, CO (about 450 miles southeast of Mill Creek) but in early March had moved north to south central WY. She came back to CO and was found dead in the northwestern part of that state in spring 2009. Her death remains under LE investigation. Any wolves in Colorado remain listed as endangered under the ESA.

Wolf activity was also reported, investigated, but not confirmed in areas beyond the core occupied NRM wolf range in 2009. Reports of suspected lone wolves and some packs were received from all states adjacent to the NRM DPS, as well as other states in the U.S. Packs were only confirmed in WA and OR. The suspected presence of long distance dispersing wolves or new packs outside of the core NRM wolf population are typically reported in the Service's weekly wolf report for WY and can be viewed at <http://westerngraywolf.fws.gov>.

NORTHERN ROCKIES FUNDING

Federal Funding for Wolf Management in both Federal Fiscal Years (FY) 2009 (Oct. 1, 2008-Sept. 30, 2009) and FY 2010 (Oct. 1, 2009-Sept. 30, 2010 * estimated).

Total Federal Funding- Wolf recovery has been almost entirely funded by federal appropriations and some private donations. In FY09 about \$3,763,000 in federal taxpayer funding was spent on wolf recovery and management in the NRM. Wolf recovery and management in the NRM from 1974, when wolves became listed, through 2009 cost approximately \$35,731,000 in federal funding (rounded to nearest \$1,000, with no adjustments for inflation and not including USDA Wildlife Services (WS) costs for investigating reports of suspected wolf damage and problem wolf control beyond the \$100,000/year provided by the USFWS to WS from 1992-2004). Wolf

management in the NRM in FY 2010 will cost federal taxpayers an estimated \$4,206,000. These annual cost estimates do not include the substantial resources provided from the Department of the Interior Solicitors Office nor the Department of Justice for legal assistance and defense during litigation.

USFWS Funding- In FY09, funding for wolf management in the NRM was up slightly from FY08 levels due to increased funding for wolf monitoring. Region 6 of the USFWS administers programs in MT and WY and is the USFWS lead Region for wolf recovery in the entire NRM. R-6 spent about \$2,214,000 in FY09. Included in that figure is the \$125,000 spent by USFWS R-6 Regional Office to help analyze public comments, prepare various regulations, and provide additional administrative support in FY09. The R-6 RO will likely spend a similar amount in FY10. Most of the USFWS funding in R-6 was transferred to MT, ID, and the Nez Perce Tribe (NPT). The USFWS R-6 also spent \$240,000 to conduct wolf management in WY in FY09, including \$40,000/yr. to assist WY WS wolf management efforts in WY. R-6 funding (\$180,000) also supported overall program coordination, rulemaking, assisting the Department of Justice, and administrative support out of Helena, MT. Estimated funding for FY10 (\$2,777k) for the USFWS is higher than FY09 levels (\$2,313k). Funding for R-1 of the USFWS in Boise, ID was stable at \$98,000 for administrative support.

Not included in the USFWS NRM wolf FY 2010 funding estimate is a new federal grant program for states and tribes that have documented damage caused by wolves. That program is being administered by the USFWS, with assistance for USDA WS, and will enact the 2009 Wolf Loss Demonstration Project Bill, Public Law 111-11. That law provides up to \$1,000,000/yr for 5 years (FY 2010-FY 2014) to states and tribes in the lower 48 states experiencing agricultural damage caused by wolves. Those funds should become available to states and tribes in 2010.

State and Tribal Funding. In FY09, Congress intended that the USFWS transfer \$396,000 to MT Fish, Wildlife & Parks for wolf monitoring, management, control, and outreach. In FY09 Congress intended ID receive \$720,000 and the NPT \$295,000 to fund wolf management in ID. The ID Governor's Office of Species Conservation and IDFG used \$100,000 of that funding to compensate livestock producers in ID for missing livestock and to make up part of the remaining 50% for probable livestock depredations that are only reimbursed at a 50% value by the private DOW compensation program in ID. In addition, FY09 Congress provided \$243,000 in additional funding for wolf monitoring in MT, ID, and WY. The USFWS divided that funding evenly between the 3 management programs in each state. Funding levels in FY10 appear to be similar to FY09, except that in tri-state wolf monitoring funds were increased to \$696,000 by Congress which will again be split evenly. In FY 2010 USFWS R-1 and R-6 will provide the states of WA and OR with about \$10k each to assist them with their wolf monitoring and management efforts.

In 2008 the USFWS R-6 spent about \$39,000 assisting the Wind River Tribes to develop a wolf management plan and Tribal wolf management capabilities but no funds were transferred in FY09. Other than the Nez Perce and Wind River Tribes, financial support has not been provided to other tribes for their wolf management activities. However the USFWS will transfer about \$10k each in FY10 funding to the Blackfeet, Salish and Kootenai, and Wind River Tribes, that

have confirmed pack activity on their tribal lands, to assist them with their wolf management activities.

National Park Service Funding. Yellowstone National Park maintained their NPS-funded wolf monitoring and research program at the \$167,000 level in FY09 and FY2010. All their field research projects remain funded by private donations (\$250,000/yr). In FY09 Grand Teton National Park spent \$52,000 in Park funding for salaries and travel and another \$70,000 in private donations for cooperative wolf-related research in and near GTNP. In 2009 GTNP hired a biologist to assist with wolf monitoring and costs in 2010 will be about \$31,000/year in federal funding and another \$125,000 from private donations. The USFWS in WY funded and conducted the wolf capture associated with NPS and other WGFD and University of WY research projects.

USDA Wildlife Services Funding. In FY09, WS maintained a \$100,000 Congressional directive for responding to complaints of wolf damage and nearly \$1,000,000 to investigate and resolve conflicts with predators in the NRM, including wolves. In FY 2010 Congress again provided \$926,000 to WS in MT, ID, and WY to investigate and address predator damage, including wolf damage. In FY09, WS in ID spent approximately \$517,000 of appropriated and cooperative funds responding to complaints of reported wolf damage, conducting control and management actions (salary and benefits, vehicles, and travel) and for other wolf-related costs (equipment and supply purchases, coordination and meeting attendance, etc.). MT WS expended approximately \$414,567 for field operations not including administrative costs of wolf damage management. WS in WY spent about \$299,765 (\$36,000 of that was provided by the USFWS in an ongoing cooperative agreement for field work and an additional \$4,000 of USFWS funding was used for WS administration) for wolf-related field activities. Most reported WS expenses do not include attending meetings and routine administrative costs associated with wolf damage management. In addition, \$3,000 was spent by OR WS to investigate and control 2 problem wolves in OR. In total, USDA WS in MT, ID, WY, and OR spent at least \$1,231,335 in FY09 on field wolf-related issues in the NRM.

Non-federal Funding For Wolves. Only the salary of one YNP biologist and administrative support is provided by the NPS. Starting in 2008, the YNP Foundation secured commitments for private donations at \$250,000/year for 10 years for wolf and wolf-related research in YNP. GTNP was given \$70,000 in private funding in FY09 for wolf-related research and another \$125,000 in FY10. The private TESH funded the salary and benefits of an experienced wolf field biologist in Bozeman, MT (valued at \$60,000/yr) in FY09. That biologist was a MT Fish, Wildlife and Parks (MFWP) volunteer, and logistic and field support and direct supervision were provided by MFWP (costing about \$20,000/yr). That employee helped MFWP to monitor wolves and resolve conflicts between wolves and private landowners in southwest MT. Due to delisting in 2009 that volunteer position was withdrawn by TESH in January 2010, although that biologist will still occasionally help MFWP with wolf issues in southwestern MT.

Defenders of Wildlife (DOW) continued to provide a private compensation program for livestock confirmed (100%) or probably (50%) killed by wolves. In 2009, DOW paid \$194,742 in compensation payments to livestock producers throughout the NRM. Included in that amount

was \$50,000 DOW contributed to the MT State wolf damage compensation program in 2009. Since 1987, DOW has contributed more than \$1,400,000 for wolf related livestock loss compensation through The Bailey Wildlife Foundation Wolf Compensation Trust www.defenders.org/wolfcompensation.

Additionally, DOW funded numerous non-lethal wolf control projects throughout the region totaling \$85,500. This included their largest project to date, the Wood River Valley Proactive project in ID, which involved a team of five seasonal field technicians working from June through October with three livestock producers to utilize electrified fladry, corrals, night corrals, spotlights, noise devices, radio-telemetry monitoring, and multiple livestock guard dogs. The project area covered 200,000 acres in the Sawtooth National Forest. This area has one of the highest concentrations of sheep grazing in ID. Over 13,000 sheep pass through this valley every year and it has a history of chronic wolf depredations. This project likely reduced the number of depredations that wolves would otherwise have been involved in, but the Phantom Hill pack there still depredated on 6 occasions between July and September, 2009. ID WS determined that there were 14 sheep and 2 dogs confirmed killed, and another 8 sheep were probably killed by the Phantom Hill pack. However, local producers asked that no wolves be killed by agency control. The project, funded primarily through DOW Proactive Carnivore Conservation Fund, cost \$30,000. Agency partners, including ID USDA Wildlife Services, National USDA Wildlife Research Center, Sawtooth National Forest, ID Department of Fish and Game, and the Blaine County Commission, provided substantial additional resources.

State compensation for wolf damage in addition to the DOW program was paid in 2009:

MT. The State of MT has a wolf damage compensation program that is a separate quasi-judicial board administratively attached to the MT Department of Livestock. The Livestock Loss Reduction & Mitigation Board and Program was created by the 2007 MT Legislature. The program is designed to reduce risk of livestock losses through application of proactive tools and to reimburse wolf-caused losses verified by USDA WS. Animals covered by MT's program are cattle, swine, horses, mules, sheep, goats, llamas, and livestock guarding animals. Board members were appointed in 2007. In 2007, the MT Legislature appropriated \$30,000 from the state's general fund and \$150,000 was appropriated in 2009. In addition, DOW donated \$50,000 in 2008 to help start the program. Additional donations were received from others, including the Greater Yellowstone Coalition, Western Wolf Coalition, Keystone Conservation, and the MT Cattlemen's Association. In 2009 DOW donated another \$50,000 to MT's compensation program.

With the funding available, the MT Governor-appointed Board overseeing the program prioritized payments for animals that were attacked by wolves and died, as verified (confirmed or probable) by USDA WS. Payments for injured animals or funds for cost-share grants to implement proactive tools intended to decrease risk were lower priorities and all available funding was exhausted by confirmed damage alone. Claims were paid on a first-come, first-served basis. A total of \$141,462 in claims was paid in MT for dead livestock in 2009.

ID. The State of ID pays claims for some of the wolf damage not covered by the DOW compensation program. ID's program has been in effect since 2001. It is administered by the ID

Office of Species Conservation and compensates for probable and missing wolf damage up to \$100,000/ year using federal funding. Payments are overseen by a board of County Commissioners whose counties have had wolf depredations. Representatives from USDA WS, IDFG, and DOW are advisors. Payments are made for the 50% of probable depredations not covered by the DOW program as well as claims of higher than historic losses due to missing livestock in occupied wolf habitat. In 2009 the Board recognized about \$208,300 in claims, but as usual, only had \$100,000 to pay out so each claim was pro-rated a percentage of the available \$100,000 (roughly 48 cents was paid per \$1 claimed in 2009). In addition, in 2009 DOW paid \$133,271 for confirmed and probable wolf damage in ID. In total \$233,271 was paid for wolf damage in ID in 2009.

WY. In 2008, the WY Legislature established and, from WY General Funds, funded a State compensation program for livestock damage caused by wolves. The WGFD paid \$67,581 for wolf damage that occurred in the Trophy Game Area of northwestern WY during 2009. WY's state program has a multiplier for each confirmed wolf depredation on calves and sheep since only a fraction of all wolf-caused losses are discovered or confirmed. Calves and any sheep are compensated up to 7 times the number confirmed but only up to the total number of calves or sheep reported as missing for that producer. Compensation for other types of livestock losses (adult cattle, horses, etc.) are paid on the actual value of each confirmed loss. State compensation is not paid in the Predatory Animal Area of WY, but DOW compensated \$10,771 for confirmed and probable livestock losses there in 2009.

NRM. In MT a total of \$141,462 was paid in 2009. This includes much of the \$50,000 given to the State of MT by DOW in 2009 for the state wolf damage compensation program, however some of that 2009 funding had to be used to pay outstanding claims from 2008. In ID a total of \$233,271 was paid in 2009. \$100,000 was paid from a federal funding earmark for state-approved claims of probable wolf damage. In addition, DOW paid an additional \$133,271 for losses confirmed by USDA WS in ID. In WY a total of \$78,352 was paid for wolf damage in 2009. The state of WY paid \$67,581 for wolf damage [including up to a 7 fold multiplier effect for confirmed sheep and calf losses] in the trophy game area of WY. DOW paid \$10,771 for wolf-caused losses confirmed by USDA WS in the predatory animal area of WY. In addition \$4,700 was paid by DOW for confirmed wolf depredations in OR. In 2009 DOW paid \$198,742 and \$259,043 was paid by the States of Montana, Idaho and Wyoming. Total compensation paid for wolf damage to livestock in the NRM in 2009 was \$457,785.

In addition, some livestock producers on both private land and public land grazing allotments have absorbed the increased losses, expenses, and costs related to grazing livestock near wolves. Those costs are not quantifiable but are likely several times higher than annual compensation payments. They include some proportion of livestock damage from causes that couldn't be verified and for missing livestock (Oakleaf et al. 2003).

FY09 and FY10 Budgets. In FY09, \$3,763,000 in federal funding was provided for wolf monitoring and management in MT, ID, WY. In FY2010, an estimated \$4,206,000 will be spent and it includes some funding (\$10k each) that will be provided by the USFWS to the Blackfeet, Salish & Kootenia, and Wind River Tribes and to the states of WA and OR for wolf management and monitoring.

Federal Funding for Wolf Management FY2009 and FY2010 (*estimated) [\$1,000's]

FISCAL YEAR	FY 2009	FY 2010*
USFWS Region 6 (Helena, MT)		
State of MT	\$ 396	\$394
USFWS in WY	\$ 240	\$240
ID Office of Species Conservation	\$ 720	\$704
Nez Perce Tribe	\$ 285	\$290
USFWS Administration & Coordination R-6	\$ 180	\$180
Additional Congressional Earmark [Tri-State]	\$ 243	\$696
R-6, Regional Office Support	\$ 150	\$ 125
Assist Tribes & WA & OR [R-1 \$10k]	\$ 0	\$ 50
(Region 6 SUBTOTAL)	(\$2,214)	\$2,679
USFWS Region 1 (Boise, ID)	\$ 99	\$ 98
USFWS Total	\$2,313	\$2,777
USDA Wildlife Services	\$ 1,231k	\$1,231
National Park Service: Yellowstone	\$ 167	\$ 167
National Park Service: Grand Teton	\$ 52	\$ 31
TOTAL Federal Funding	\$3,763	\$4,206 *estimated

NORTHERN ROCKIES DELISTING, LITIGATION, and FEDERAL PERSONNEL

Delisting of the Gray Wolf

Wolves, once common throughout North America, became protected under the Endangered Species Act (ESA) in 1974, because human persecution nearly eliminated them from the contiguous United States. After the 1930's there were virtually no wolves left in the NRM. The ESA prohibited people from harming wolves and mandated that all federal actions seek to conserve and not jeopardize wolves. Ultimately, 3 distinct wolf recovery programs, Midwest, NRM, and Southwest, were initiated. The Midwest wolf population (Western Great Lakes DPS containing >4,000 wolves) was delisted on February 8, 2007 (72 FR 6052) but the U.S. District Court of Columbia vacated and remanded the delisting rule back to the USFWS on September 29, 2008. Efforts to recover wolves (~50 wolves) in the Southwest continue. On April 2, 2009, the NRM DPS except WY, was delisted. In the NRM, 2009 marked the ninth consecutive year that the minimum recovery goal of at least 30 or more breeding pairs and at least over 300 wolves were documented in MT, ID and WY. The current NRM wolf population of at least 1,650 wolves in over 100 breeding pairs has fully achieved its biological recovery objectives.

Wildlife mortality is typically regulated by state and tribal fish and wildlife management agencies. The USFWS requested that MT, ID, and WY develop state wolf management plans to

show how their states would conserve wolves. In addition, the USFWS believed that state wolf plans would clarify how human-caused mortality would be regulated and the wolf population conserved by the states and tribes without the protections of the ESA. These plans also were to provide a solid administrative foundation for the Service's final decision about delisting. The USFWS provided various degrees of funding and assistance to the states while they developed their wolf management plans. State laws, as well as state management plans, must be consistent with long-term conservation of the wolf population. USFWS determined that MT and ID's plans were adequate in 2004 but determined WY's regulatory framework was not adequate. On April 13, 2007, the Wind River Tribe approved a wolf management plan for their tribal lands in northwestern WY. The USFWS determined it adequately addressed the ESA criteria shortly thereafter. The links for the state wolf plans for MT, ID and WY, and the Wind River and Blackfoot Tribes are available at <http://westerngraywolf.fws.gov>.

On February 8, 2007, USFWS proposed to identify the NRM DPS of the gray wolf and to delist all or most portions of the NRM DPS (72 FR 6106). Specifically, USFWS proposed to delist wolves in MT, ID, and WY, and parts of WA, OR, and UT. The proposal noted that the ESA's protections would be retained in significant portions of the range in WY in the final rule if adequate regulatory mechanisms were not developed to conserve WY's portion of a recovered wolf population into the foreseeable future. Under this alternative scenario, wolves in portions of WY would continue to be regulated under ESA as a non-essential, experimental populations per the 1994 rules and on Wind River Tribal lands, under the 2005 experimental population regulations [50 CFR § 17.84 (i) and (n)].

On July 6, 2007, the USFWS extended the comment period on the February 8, 2007 proposal in order to consider a 2007 revised WY wolf management plan and State law that USFWS believed, if implemented, could allow the wolves in all of WY to be removed from the List of Endangered and Threatened Wildlife (72 FR 36939). The delisting proposal was open for public comment for a total of 90 days and 8 public hearings were held. The proposed delisting rule received over 283,000 public comments. On November 16, 2007, the WY Game and Fish Commission (WGFC) unanimously approved the 2007 WY Plan. USFWS then determined this plan provided adequate regulatory protections to conserve WY's portion of a recovered wolf population into the foreseeable future. On December 15, 2007, the USFWS Director determined WY's regulatory mechanisms met the requirements of the ESA, contingent on the sunset provisions of the WY law being satisfied so that WY's plan could be fully implemented. On February 27, 2008, USFWS issued a final rule recognizing the NRM DPS and removing all of this DPS from the List of Endangered and Threatened Wildlife (73 FR 10514) and stated that WY's 2007 regulatory mechanisms were believed adequate.

The NRM DPS wolf population was delisted from March 28 to July 18, 2008. This corresponded to when the delisting decision took effect and to when a federal district judge granted a request for a preliminary injunction and relisted NRM wolves (see below). The court expressed serious reservations about USFWS approval of Wyoming's regulatory framework. During this period of time, state and tribal management plans and state laws were fully in effect.

Given the court rulings, on October 28, 2008 (73 FR 63926), USFWS reopened the comment period on the February 8, 2007 proposed rule that presented two different scenarios for delisting the NRM DPS (72 FR 6106). Specifically, USFWS sought information, data, and comments from the public regarding the 2007 proposal, with an emphasis on new information relevant to this action, the issues raised by the MT District Court, and the issues raised by the September 29, 2008, ruling of the U.S. District Court for the District of Columbia with respect to the WGL gray wolf DPS. The notice also asked for public comment on what portions of WY need to be managed as a trophy game area and what portions of WY constitute a significant portion of the NRM DPS's range. About 240,000 comments were received during that public comment period. Based on the Court's ruling and a more thorough review, the USFWS determined that WY's 2007 law, wolf management plan, and regulatory framework were not adequate to meet the purposes of the ESA. On January 15, 2009 WY's Governor was notified that WY no longer had a USFWS-approved wolf management plan and state regulatory framework. Wolf management in all of WY, except the Wind River Tribal lands because the Tribe had a Service-approved plan] again became immediately under the less flexible provisions of the 1994 experimental rules. New final delisting rules were produced for both the NRM and the WGL DPSs in December 2008. These rules were released for public inspection on January 15, 2009 and were sent to the Federal Register for publication. However, on January 20, 2009 they were withdrawn from publication by Executive Order, a standard practice when a new administration takes office. Both rules were carefully reviewed by the U.S. Department of Interior. The NRM rule was published in April 2, 2009 (74 FR 15123-15188) but the WGL rule has not been published.

The 2009 final rule became effective May 4, 2009. It established the NRM DPS and, except for in WY, delisted gray wolves within it. Because WY does not have an approved state post-delisting wolf management plan wolves there remain protected under the 1994 experimental population regulations. This action was again litigated in MT District Court by a coalition of environmental and animal rights groups (represented by Earthjustice) who argued that wolves should remain protected by the ESA. In addition, Earthjustice requested that the court enjoin the planned fall 2009 wolf hunting seasons in MT and ID because they were likely to prevail in court over the legal merits of the case and hunting could irreparably harm the NRM wolf population. The court declined to grant the injunction because there was unlikely to be harm to the NRM wolf population but indicated that the plaintiffs were likely to win the case on its merits. The MT case has been fully briefed. WY initiated litigation in the WY District court and argued the USFWS should have approved WY's wolf management plan and delisted WY too. The WY case was fully briefed and oral arguments were held on January 29, 2010. It is unknown when the MT or WY courts may issue their opinions.

MT and ID had fair chase wolf hunting seasons in fall/winter 2009. A total of 72 wolves were legally harvested in MT out of a total quota of 75. In ID about 135 were harvested in 2009 of a total quota of 220. Hunters in MT and ID paid nearly \$700,000 to buy a wolf tag for the opportunity to hunt wolves. While controversial among some segments of the public, the hunts were very successful biologically (hunter compliance was good and wolf harvest was widely dispersed and within quota limits) and did not harm the NRM wolf population.

When a species is delisted, the ESA requires a mandatory, minimum 5-year post-delisting federal oversight period. That period, during which the USFWS reviews the implementation of state management plans and wolf population status, provides a safety-net to ensure that the species is able to sustain itself without ESA protection. If wolves became threatened again, the USFWS could relist them by emergency order.

The Experimental Population Rules

Gray wolves were reintroduced in parts of the NRM as nonessential experimental populations under the ESA in January 1995 and 1996. In 1994, just prior to wolves being reintroduced to central ID and YNP, special nonessential experimental population regulations under 17.84 (i) ESA Sec. 10(j) were promulgated (59 FR 60252). Those regulations allowed extra management flexibility to Federal agencies, states, tribes, and private individuals to manage wolves to protect private property and other wildlife populations.

The USFWS's updated January 6, 2005 10(j) (70 FR 1286) regulation expanded the authority of states and Native American tribes with USFWS-approved post-delisting wolf management plans to manage gray wolves in the experimental population areas of CID and GYA. This designation allowed federal, state and tribal agencies and private citizens more flexibility in managing wolves and to protect domestic animals than the 1994 regulations. The rule also intended to allow the states and tribes with USFWS-approved post-delisting wolf management plans to lethally remove wolves that were the 'primary' cause of significant negative impacts to big game herds and for states and tribes to lead wolf management in their state or reservation. Analysis of a March 2006 proposal by the state of ID to remove up to 43 wolves in a small area of central ID to reduce the rate of wolf predation on ungulates for up to 5 years revealed that the 'primary' requirement in the 2005 rule was an unobtainable standard, as wolf predation is never the 'primary' cause of ungulate herd status.

On July 6, 2007 the USFWS proposed that the 2005 10(j) nonessential experimental population regulation be modified (72 FR 36942). The modification from 'primary cause' to 'one of the major causes' allowed a high but reasonable standard for states and tribes with USFWS-approved post-delisting wolf management plans to develop science-based proposals to lethally remove wolves shown to be negatively affecting ungulate herds. In addition it would allow anyone on private or public land to shoot a wolf that was attacking his or her dog or stock animals. The proposed rule change received over 262,000 public comments. The rule was published on January 28, 2008 (73 FR 4720) and became effective 30 days later on February 27, 2008. A couple of wolves that were seen attacking domestic dogs or horses were legally shot by private citizens, but no wolves were removed to address concerns about wild ungulate populations.

Litigation

Litigation initiated by both wolf proponents and opponents, over wolf reintroduction and subsequent management has almost been continuous since the USFWS published the final rules for wolf reintroduction into YNP and central ID in November 1994.

State of WY, et al. vs. United States Department of the Interior, et al., United States District Court for the District of WY, Civil Action No. 04CV01123J. This case involved the USFWS not approving the WY state wolf management plan in 2004. The case was expanded by interveners to include alleged failure to properly manage wolves in WY and failure to conduct additional NEPA compliance. The WY District Court ruled in the USFWS's favor based on procedural grounds in 2005. WY appealed that case to the 10th Circuit Court of Appeals in Denver CO, but the Appeals Court upheld the lower court decision. As a result of those court decisions WY formally petitioned the USFWS to establish and delist a NRM DPS for the gray wolf. The USFWS rejected that petition.

State of WY et al. v. United States Department of the Interior et al., United States District Court for the District of WY, Civil Action No 06-245J. This case involves the USFWS's rejection of WY's petition to establish a NRM DPS for wolves and delist them (71 FR 43410). That case was dismissed after the February 29, 2008 final NRM DPS delisting rule was published in the Federal Register.

Defenders of Wildlife et al vs H. Dale Hall et al., CV 08-56-M-DWM, U.S. District Court for the District of MT, Missoula Division. On February 27, 2008, USFWS issued a final rule recognizing the NRM DPS and removing all of this DPS from the List of Endangered and Threatened Wildlife (73 FR 10514). This rule also determined that WY's regulatory mechanisms were adequate. On April 28, 2008, 12 parties filed a lawsuit challenging the identification and delisting of the NRM DPS. The plaintiffs also moved to preliminarily enjoin the delisting. On July 18, 2008, the U.S. District Court for the District of MT granted the plaintiffs' motion for a preliminary injunction and enjoined the USFWS implementation of the final delisting rule for the NRM DPS of the gray wolf. This ruling placed the gray wolf throughout the NRM DPS back under the ESA and federal regulations. The court stated that USFWS acted arbitrarily in delisting a wolf population that lacked evidence of genetic exchange between subpopulations. The court also stated that USFWS acted arbitrarily and capriciously when approving WY's 2007 statute and wolf management plan because WY failed to commit to managing for at least 15 breeding pairs and WY's 2007 statute allowed the WGFC to diminish the trophy game area if it "determines the diminution does not impede the delisting of gray wolves and will facilitate WY's management of wolves." The Court's preliminary injunction order concluded that the Plaintiffs were likely to prevail on the merits of their claims. On September 22, 2008, USFWS asked the Court to vacate the final rule and remand it back to the agency. On October 14, 2008, the Court vacated the final delisting rule and remanded it back to the USFWS for further consideration. In February 2009, the Court awarded/reimbursed Earthjustice (the law firm representing 12 groups which filed the lawsuit challenging delisting) about \$263,000 in legal fees for their efforts at litigating the final delisting rule.

Humane Society of the United States v. Kempthorne, Civil Action No. 07-0677 (PLF) (D.D.C.). Similarly, on February 8, 2007, USFWS recognized a Western Great Lakes (WGL) DPS and removed it from the list of the List of Endangered and Threatened Wildlife (72 FR 6052). Several groups challenged this rule in court, arguing that the USFWS may not identify a DPS within a broader pre-existing listed entity for the purpose of delisting the DPS. On September 29, 2008, the court vacated the WGL DPS final rule and remanded it to the USFWS. The court

found that the USFWS had made that decision based on its interpretation that the plain meaning of the ESA authorizes the USFWS to create and delist a DPS within an already-listed entity. The court disagreed, and concluded that the ESA is ambiguous as to whether the USFWS has this authority. The court accordingly remanded the final rule so that the USFWS can provide a reasoned explanation of how its interpretation is consistent with the text, structure, legislative history, judicial interpretations, and policy objectives of ESA. The revised 2009 delisting rule that was submitted to the Federal Register responded to the court decision but was withdrawn by Executive Order on January 20, 2009.

Defenders of Wildlife, et al. vs. H. Dale Hall, et al. U.S. District Court for MT, Missoula CV 08-14-M-DWM. The January 28, 2008 modification to the 2005 10(j) nonessential experimental population rule is currently being litigated by a coalition of an individual and seven environmental/animal rights groups. That rule allowed anyone to legally shoot a wolf that was attacking his or her dog or his or her stock animal [horses, mules, donkeys, llamas, and goats]. It also provided a science-based process for the states and tribes to propose that the Service approve localized reductions in wolves where wolf predation was proven to be a major cause of ungulate herds being below state and tribal management objectives. That rule remains in effect while the case is being litigated. The case is stayed until there is a decision regarding the 2009 delisting. A few wolves that were attacking domestic dogs or horses were legally shot by private citizens, but no wolves were removed to address concerns about wild ungulate populations.

Defenders of Wildlife et al. and Greater Yellowstone Coalition vs Ken Slazar et al. [Case No. CV-09-77-M-DWM and CV-09-82-M-DWM consolidated]. The 2009 delisting was litigated in MT District Court in Missoula, MT by a coalition of environmental groups represented by Earthjustice. They assert, among many other arguments, that delisting without WY is unlawful.

State of WY and a coalition of WY sportsmen and livestock groups vs. USDOJ, USFWS, Ken Salazar et al. [CV-09-118-ABJ and CV-09-138-ABJ consolidated]. Litigation over the April 2, 2009 delisting was also initiated in WY Federal District court in Cheyenne WY. They asserted that the USFWS unlawfully did not approve WY's wolf management regulatory framework and the USFWS should have also delisted wolves in WY along with the remainder of the NRM DPS.

USFWS Wolf Personnel

MFWP began managing wolves in northwestern MT in early 2004, under a cooperative agreement with the Service, after the USFWS wolf biologist (Tom Meier) for that area left to take a job in Alaska. In June 2005, the USFWS and MFWP signed a cooperative agreement transferring the decision-making authority for all wolf management activities in MT, including the experimental populations in southern MT, and the remaining USFWS wolf biologist position for MT (Joe Fontaine) was eliminated to transfer that federal funding to MFWP.

In January 2006, the Governor of ID signed a Memorandum of Agreement with the Secretary of the Interior giving ID Department of Fish and Game the decision making authority for all wolf management activities in ID. The USFWS biologist that had been conducting that work retired (Carter Niemeyer). Since that time all wolf management in MT and ID has been conducted with

federal funding but by the state wildlife agencies who hired staff to assume those duties. The Nez Perce Tribe continues to assist with wolf monitoring in ID under a cooperative agreement with ID. From March 28, 2008 until July 18, 2008 wolves were delisted and managed solely by the states and tribes.

During the time they were delisted wolves in 88% of WY were managed as predatory animals (virtually no regulation of human-caused mortality) by the WY Department of Agriculture. Outside the National Parks, WY Game and Fish Department (WGFD) was the lead agency for wolf management where wolves were designated trophy game animals. During that period, USFWS employee Mike Jimenez was detailed to WGFD to lead wolf management in WY as a WGFD employee. However, after the Court's July 18, 2008 injunction, WGFD ended its involvement and the USFWS re-assumed the lead for all wolf management in WY. Project Leader Jimenez returned as a USFWS employee and will continue to lead wolf management in WY until it can be again transferred to WGFD. Field biologist Susannah Woodruff continued working as a seasonal USFWS employee in WY.

Amelia Orton-Palmer was designated as the USFWS assistant wolf recovery coordinator to help analyze public comments and prepare and finalize the federal wolf rules proposed in 2007. She left that position in late 2008 to resume other duties in the USFWS Regional Office in Denver, CO. The USFWS wolf program staff are currently just Ed Bangs, the Wolf Recovery Coordinator in Helena, MT and Mike Jimenez the Project Leader for Wolf Recovery in WY and seasonal biologist Susannah Woodruff who are both stationed in Jackson, WY. In addition, Seth Willey (ESA Recovery Coordinator) with the USFWS Regional Office in Denver, CO made huge contributions in 2009 to complete and defend the 2009 delisting proposal and by working on other USFWS projects related to wolf conservation.

Steve Nadeau, left his position as ID Department of Fish and Game Large Carnivore Manager (including wolves) in 2009. His wolf duties were assumed by Jon Rachael, the Big Game Manager for IDFG, who had previously worked on NRM wolf issues in MT and ID. Dominic Domenici, the USFWS Senior Law Enforcement Agent for MT and WY retired in Casper, WY at the end of 2009. Jim Claar the USDA Forest Service Large Carnivore Specialist retired in Missoula, MT at the end of 2009. Jim Hoover, the Eastern MT District Supervisor for USDA Wildlife Services retired in Columbus, MT in April 2009. Jim was replaced by Mike Foster. Mike started with WS in WA state where he spent a field season before working in ID for 8 years as a Wildlife Specialist and acting District Supervisor. He then went to Western OR as a District Supervisor for 2 years before coming to MT in Aug 2009. Joe Fontaine, who was with the NRM recovery program from 1988-2006 retired as the Deputy Manager for the Theodore Roosevelt National Wildlife Refuge Complex in Mississippi and returned to MT to live in early 2010. All these people and many others made huge contributions to wolf restoration and management. We wish them all the best but they will be sorely missed.

ABBREVIATIONS AND ACRONYMS

Central ID wolf recovery area	CID
Defenders of Wildlife	DOW
Distinct Population Segment	DPS
Endangered Species Act	ESA
Glacier National Park	GNP
Grand Teton National Park	GTNP
Greater Yellowstone wolf recovery area	GYA
ID Department of Fish and Game	IDFG
MT Fish, Wildlife and Parks	MFWP
MT State University	MSU
Nez Perce Tribe	NPT
Northwest MT Wolf Recovery Area	NWMT
Northern Rocky Mountains	NRM
Predator Conservation Alliance	PCA
Turner Endangered Species Fund	TESF
University of MT	UM
USDA/APHIS/Wildlife Services	WS
U.S. Fish and Wildlife Service	USFWS
U.S. Forest Service	USFS
U.S. National Park Service	NPS
WY Game and Fish Department	WGFD
Yellowstone Center for Resources	YCR
Yellowstone National Park	YNP

CONTACTS

For further information or to report wolf sightings, please contact:

Please remember wolf management in MT and ID is conducted by MFWP and IDFG and they should be the first point of contact in each state for everything as long as wolves are delisted:

MT Fish, Wildlife & Parks, Helena, MT:	(406) 444-3242
MT Fish, Wildlife & Parks, Kalispell, MT:	(406) 751-4586
MT Fish, Wildlife & Parks, Missoula, MT:	(406) 542-5523
MT Fish, Wildlife & Parks, Bozeman, MT:	(406) 994-6371
MT Fish, Wildlife & Parks, Butte, MT:	(406) 425-3355
Nez Perce Tribal Wolf Program, McCall ID:	(208) 634-1061
ID Fish and Game, Boise, ID	(208) 334-2920
ID Fish and Game, Salmon, ID	(208) 756-2271
ID Fish and Game, Nampa, ID	(208) 465-8465
U.S. Fish and Wildlife Service, Helena MT:	(406) 449-5225
U.S. Fish and Wildlife Service, Jackson, WY:	(307) 330-5631
U.S. Fish and Wildlife Service, Boise ID:	(208) 378-5639
Yellowstone Center for Resources, YNP WY:	(307) 344-2243

To report livestock depredations:

USDA/APHIS/Wildlife Services, MT:	(406) 657-6464
USDA/APHIS/Wildlife Services, WY:	(307) 261-5336
USDA/APHIS/Wildlife Services, ID:	(208) 378-5077
USDA/APHIS/Wildlife Services toll free:	(866) 487-3297

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

U.S. Fish and Wildlife Service Special Agent, Missoula, MT:	(406) 329-3000
U.S. Fish and Wildlife Service Special Agent, Great Falls, MT:	(406) 761-2286
U.S. Fish and Wildlife Service Special Agent, Lander, WY:	(307) 332-7607
U.S. Fish and Wildlife Service Special Agent, Cody, WY:	(307) 527-7604
U.S. Fish and Wildlife Service Special Agent, Boise, ID:	(208) 378-5333
U.S. Fish and Wildlife Service Special Agent, ID Falls, ID	(208) 523-0855
U.S. Fish and Wildlife Service Special Agent, Spokane, WA	(509) 928-6050

WEBSITES

USFWS Rocky Mountain weekly and annual wolf updates:
<http://westerngraywolf.fws.gov/>

USFWS Midwestern gray wolf recovery, national wolf reclassification proposal:
<http://midwest.fws.gov/wolf/>

USFWS Endangered Species Program:
<http://endangered.fws.gov/>

USDA/APHIS/Wildlife Services:
<http://www.aphis.usda.gov/ws/>

National Wildlife Research Center:
<http://www.aphis.usda.gov/ws/nwrc/>

Nez Perce Tribe Wildlife Program and 2001 progress report:
http://www.nezperce.org/Programs/wildlife_program.htm

Turner Endangered Species Fund:
<http://www.tesf.org/>

Yellowstone Park Foundation:
<http://www.ypf.org/>

Yellowstone Wolf Tracker:
<http://www.wolftracker.com/>

Wolf Restoration to Yellowstone:
<http://www.nps.gov/yell/nature/animals/wolf/wolfrest.html>

MT Fish, Wildlife and Parks wolf management:
<http://fwp.mt.gov/wolf>

MT State University wolf-ungulate research:
<http://www.homepage.MT.edu/~rgarrott/wolfungulate/index.htm>

ID Fish and Game:
<http://www.state.id.us/fishgame/>

ID Office of Species Conservation:
<http://www.state.id.us/species/>

WY Game and Fish Department:
<http://gf.state.wy.us/>

WY agricultural statistics:
<http://www.nass.usda.gov/wy/>

ID agricultural statistics:
<http://www.nass.usda.gov/id/>

MT agricultural statistics:
<http://www.nass.usda.gov/mt/>

National agricultural statistics:
<http://usda.mannlib.cornell.edu/reports/nassr/livestock/>

Defenders of Wildlife wolf compensation trust:
<http://www.defenders.org/wolfcomp.html>

International Wolf Center:
<http://www.wolf.org/>

Wolf Recovery Foundation:
<http://forwolves.org/>

National Wildlife Federation wolf information:
<http://www.nwf.org/wildlife/graywolf/>

MT Stockgrowers' Association
<http://www.mtbeef.org/index.htm>

National Geographic wolf information:
<http://www.nationalgeographic.com/tv/specials/wolf/intro.html>

Wolf Education and Research Center:
<http://www.wolfcenter.org/>

People Against Wolves:
<http://home.centurytel.net/PAW/home.htm>

Western Wolf Coalition:
www.westernwolves.org

Lobo Watch:
wolfkill@lobowatch.com

ACKNOWLEDGMENTS

Hundreds of people have assisted with wolf recovery efforts in a wide variety of ways and we are indebted to them all. It would be impossible to individually recognize them all in this report. We especially want to acknowledge the support and understanding from our families and friends. Major contributions to wolf recovery efforts were provided by Dave Skates and Laurie Connell (USFWS Lander, WY), Jim Williams (MFWP, Kalispell, MT), Mark Wilson, Brent Esmoil, Heidi Van Duyn, and Franki Niemeir (USFWS/ES, Helena MT), Jeff Green (WS, Denver CO), Mark Collinge and Todd Grimm (WS, ID), Dave Renwald (Bureau of Indian Affairs), and Mike Phillips (TESF). Numerous agencies have contributed to the recovery program and we thank the USFS, Bridger-Teton National Forest, Shoshone National Forest, Kootenai National Forest, Flathead National Forest, Lewis and Clark National Forest, GNP, YNP, GTNP, National Elk Refuge, Lost Trail National Wildlife Refuge, U.S. Bureau of Indian Affairs, Confederated Salish-Kootenai Tribes, the Blackfoot Tribe, WGFD, MFWP, and IDFG. Laboratory work was performed by the MFWP laboratory in Bozeman MT, the USFWS Forensics Laboratory in Ashland, OR, Matson's Laboratory in Milltown, MT, and Gary Haas of Big Sky Beetle Works in Hamilton, MT. Veterinarians providing services and advice to wolf recovery programs included Drs. Clarence Binninger, Charlene Esch, Mark Atkinson, Tom Roffe, and Mark Drew. We thank our legal advisors Margot Zallen (DOI), and Michael Eitel and David Gayer (DOJ) for their hard work and advice.

Portions of this report were authored by Ed Bangs, Mike Jimenez, Dominic Domenici (USFWS), Mark Collinge, Todd Grimm (USDA/WS), Doug Smith, Erin Albers, and Dan Stahler (NPS), Curt Mack and Jim Holyan (NPT), Carolyn Sime, Liz Bradley, Kent Laudon, Mike Ross, and Nathan Lance (MFWP), Jon Rachael, Michael Lucid, and Jason Hussman (IDFG), and Val Asher (MFWP TESH). Special thanks to Adam Messer (MFWP) for preparing maps for this report, Scott Story for technical computer support, and to Jim Renne (USFWS) for producing the website.

We thank our pilots: Dave Hoerner of Red Eagle Aviation, Lowell Hanson of Piedmont Air Services, Steve Davidson of Selway Aviation, Tim Graff and Eric Waldorf of WS, Bob Hawkins and Gary Brennan of Hawkins and Powers Aviation, Roger Stradley of Gallatin Flying Service, Gary Lusk of Mountain Air Research, Jerry Hyatt and Claude Tyrrel of Sky Aviation, Pat and Mike Dorris, Rod Nielson and Jon Ugland of McCall Aviation, Mike Dorris of Sawtooth Flying Service; Doug Gadwa, Brandon Startin, and Joe Myers of InterState Aviation, of McCall Aviation, Steve and Michelle Wolters, and Wendy Beye of North Star Aviation, Ray Arnold of Arnold Aviation, Pete Wilson of Middle Fork Aviation, Gene Mussler of Sawtooth Flying; Leroy Brown and Jack Fulton of ID Helicopters, Steve and Lisa Robertson, and Doug Chapman of MT Aircraft. Their safety, skill and cooperation greatly contributed to wolf recovery efforts.

Many private organizations have lent their support to the program including DOW, National Fish and Wildlife Foundation, Wolf Education and Research Center, DeVlieg Foundation, Rocky Mountain Elk Foundation, Snowdon Wildlife Sanctuary, Twin Spruce Foundation, Yellowstone Park Foundation, and Plum Creek Timber Company. The efforts of many individuals who have contacted us to report wolf sightings are greatly appreciated. The numerous ranchers and other private landowners whose property is occasionally used by wolves, sometimes at great cost to the owner, deserve our respect, service, and understanding.