

The blackfooted ferret is an iconic species with worldwide attention.



Press Release (

Tigers, Rhinos, Polar Bears And Elephants Among Most Threatened Species In 2009, Says World Wildlife Fund

Iconic Animal Populations Being Decimated by Poaching, Loss of Habitat and Climate Change

ase: Dec 16, 2008

INGTON DC, December 16, 2008 – World Wildlife Fund toda list of some of the most threatened species around the world

WF's list of "9 to Watch in 2009" includes such well-known s list of 9 to water in 2009 illibious social weikklown and besived species far bears, tigers, gorillas, pandas, elephants, while and hinso, as well as sser-known black-footed ferret and vaquita. WWF scientists say these, and other species, are at greater risk than ever before because of poaching.

don't get serious about saving these spect von't be around in the years to come," said Tom Dillon, WWF ent for Field Programs. "The potential loss of some familiar an should be a wake-up call that immediate action must be take we in a world with wild elephants, polar bears, and tigers. At the dawn of the ear, our global resolution for 2009 should be to save these amazing species

WWF's "9 to Watch in 2009" list

- Vaquita Cross River Goril Sumatran Tiger
- lorth Pacific Right Whale

Population: 500 breeding adults. Location: Northern Great Plains, U.S. and

Found only in the Great Plains, It is one of the most endangened mammale in Neutri Anvicto because its primary processing the parties does the been nearly exterminated by ranchers who consider it a nuisance. Few species have edged to close to stanticing as the black-block formet and recovered, but flowgin recovering. WWF has been working to save the black-locked terret and the primate doe population upon which the forered species.

7. Borneo Pygmy Elephant 8. Giant Panda 9. Polar Bear



Partners & Participants



- Federal Agencies (FWS, USGS, USFS, BLM, NPS, NRCS, APHIS, US Army, BIA)
- States (AZ, CO, KS, MT, NM, SD, UT, WY)
- Foreign Governments (Canada, Mexico)
- Tribes (Cheyenne River Sioux, Ft. Belknap, Lower Brule, Northern Cheyenne, Rosebud, Navajo)
- NGOs (Audubon KS, Defenders of Wildlife, NWF, Prairie Wildlife Research, Turner ESF, TNC, WWF)
- Zoos (FWS NBFFCC, Smithsonian, Louisville, Cheyenne Mountain, Phoenix, Toronto)
- Private landowners (AZ, CO, KS, WY)

Historically, the black-footed ferret occupied an estimated 100 million acres of intermountain and prairie grasslands in the western U.S., Canada, and Mexico, within ~ 562 million acres of potential habitat. By 1987, there were no remaining wild ferrets.





The historical range of the black-footed ferret coincided with ranges of the black-tailed, white-tailed, and Gunnison's prairie dogs. Approximately 85% of all ferrets occurred in black-tailed prairie dog habitat, 8% in Gunnison's, and 7% in white-tailed.

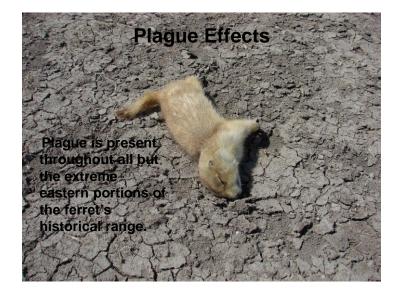


The decline of the black-footed ferret was tied to its close association with prairie dogs, which were dramatically reduced beginning in the late 1800s due

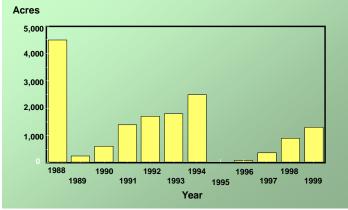
to:

- Conversion of native range to cropland (1880s - 1920s)
- Large-scale prairie dog poisoning (1918 - 1972)
- Sylvatic plague
 (1940s present)



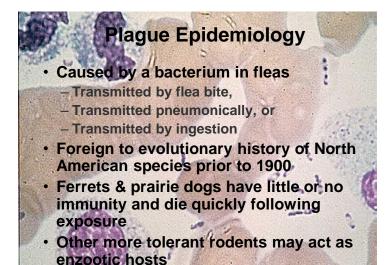


Black-tailed Prairie Dog Occupied Habitat at Rocky Mountain Arsenal NWR Fluctuations in Response to Plague



Plague Considerations

- Plague **directly** impacts ferrets via infection and subsequent mortality.
- Plague indirectly impacts ferrets via its effects on prairie dogs and subsequent dramatic declines in the ferret's primary prey base.
- Plague can be managed through ferret vaccination and vector control.
- Oral sylvatic plague vaccine research trials show promise.
 science for a changing work





NATIONAL BLACK-FOOTED FERRET CONSERVATION CENTER CARR, COLORADO (completed 2005, first kits 2006)

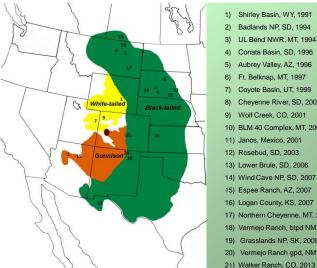








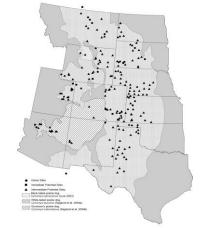
- 1851 Audubon & Bachman discovered black-footed ferret 1964 Presumed last population of bff found in Mellette Co., SD Bff first placed on Endangered Species List 1967 9 bff removed from Mellette to captive population at Patuxent 1971 1974 SD population of wild bff extirpated 1978 First Recovery Plan approved 1979 Last captive bff from SD dies at Patuxent, bff presumed extinct 1981 Wild bff rediscovered near Meeteetse, WY 1987 Last wild bff removed from Meeteetse, due to disease First successful reproduction & weaning of bff in captivity Recovery Plan revised 1988 1991 First bff reintroduction at Shirley Basin, WY 1999 Captive population objectives reached ≥ 240 breeding adults Number of wild bff at Conata Basin > population peak at Meeteetse First reintroduced population (Conata Basin) with surplus kits 2000 available for translocation 2001 Bff reintroduction at Janos, Mexico 2002
- Number of wild bff > number of captive bff
- Successful captive breeding using frozen sperm 2008 Plaque detected at Conata Basin
- 2009 Bff reintroduction at Grasslands NP. Canada
- 2011 Partners develop comprehensive bff recovery strategy
- 2013 Recovery Plan revised and Programmatic Safe Harbor Agreement completed; incentive program implemented



2) Badlands NP, SD, 1994 3) UL Bend NWR, MT, 1994 4) Conata Basin, SD, 1996 5) Aubrey Valley, AZ, 1996 6) Ft. Belknap, MT, 1997 7) Coyote Basin, UT, 1999 8) Cheyenne River, SD, 2000 9) Wolf Creek, CO, 2001 10) BLM 40 Complex, MT, 2001 11) Janos, Mexico, 2001 12) Rosebud, SD, 2003 13) Lower Brule, SD, 2006 14) Wind Cave NP. SD. 2007 15) Espee Ranch, AZ, 2007 16) Logan County, KS, 2007 17) Northern Cheyenne, MT, 2008 18) Vermejo Ranch, btpd NM, 2008 19) Grasslands NP, SK, 2009 20) Vermejo Ranch gpd, NM , 2012

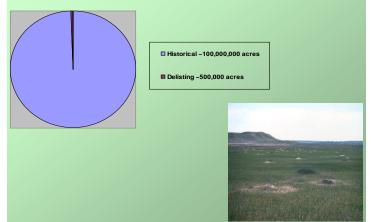
Additional Release Sites are Needed:

Past planning efforts need to be revisited and expanded



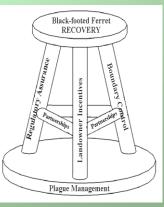
Locations of active, immediate potential, and intermediate potential black-footed ferret reintroduction sites (Luce 2008)

Black-footed Ferret Occupied Habitat: Historically & at Proposed Delisting



Management Challenges

- Regulatory assurances (Safe Harbor and existing 10j areas)
- Landowner incentives to increase tolerance of prairie dogs
- Boundary prairie dog control (where needed)
- Refinement of an oral plague vaccine for prairie dogs



Black-footed Ferret Programmatic Safe Harbor Agreement (BFF SHA)

- Provides regulatory assurances to nonfederal landowners wishing to conserve BFF.
- Applies to all non-federal lands within the historic range of the BFF, including tribal lands.
- Expands and improves upon existing individual permitting approach.

BFF SHA Specifics

- A "zero baseline" SHA (including existing reintroduction sites).
- Permit is issued to BFF Recovery Coordinator for a 50-year term.
- Individual landowners will be issued
 Certificates of Inclusion (CI).
- Each CI will be accompanied by a sitespecific reintroduction plan with a minimum 10 and maximum 40 year term

BFF Reintroduction Plans

- Developed jointly by FWS, landowner, state resource agency, tribes, consultants, etc.; final approval is by the BFF Recovery Coordinator.
- Delineates conservation and management zones for enrolled property.
- Defines monitoring, prairie dog management, and plague management strategies; may include forage incentives and boundary control if approved.
- Attached to each CI.
- May be amended as conditions change.

Incidental Take

- Incidental take for cooperators is provided by the permit, and by extension the CI.
- Incidental take for non-participating landowners (including federal lands) is provided by the Biological Opinion for the permit issuance.
- Take is *unlimited* for animals that move beyond the Conservation Zone as defined in the CI and Reintroduction Plan.
- Covers *all* land management practices except for cultivation of rangeland and toxicant use in Conservation Zones.

1986, *Nature* (Robert May): "If such a mess can be made of efforts to save a creature as attractive as the black-footed ferret in a country as well organized and prosperous as the United States, prospects for conservation in other parts of the world are indeed bleak."



2008, IUCN Press Release: "The most comprehensive assessment of the world's mammals has confirmed an extinction crisis, with almost one in four at risk of disappearing forever but it is not all bad news. The assessment of the world's mammals shows that species can recover with concerted conservation efforts. The black-footed ferret moved from extinct in the wild to endangered after successful reintroductions into eight western states and Mexico from 1991-2008."

BFF SHA Expected Outcomes

- BFF Recovery Coordinator will assess potential cooperators very carefully; addressing concerns by neighboring landowners, state resource agencies, and local governments will be key.
- A crucial step in the development of additional reintroduction sites, and BFF recovery as a whole.
- Ideally will be a precursor to rangewide landowner incentive and prairie dog boundary control initiatives.