

Chapter 5: Miscellaneous

5.1 Preparers, Agencies, or Individuals Who Were Consulted or Contributed Towards the Preparation of the EIS and the Public Involvement Process

A number of organizations or agencies assisted in preparation of this EIS document or were contacted for information to include: Alaska Department of Fish and Game, American Prairie Reserve; Arizona Game and Fish Department; British Columbia Ministry of Forests, Lands and Natural Resource Operations; Bureau of Land Management; Charles M. Russell National Wildlife Refuge; Montana Department of Livestock; Montana Department of Transportation; National Park Service; Sturgeon River Plains Bison Stewards; Ute Indian Tribe Fish and Wildlife Department; United States Department of Interior; United States Forest Service; Utah Division of Wildlife Resources, Wildlife Conservation Society.

A number of organizations in addition to those above assisted in preparation of the document, *Background Information on Issues of Concern for Montana: Plains Bison Ecology, Management, and Conservation* that was used to inform much of Chapter 2 within this EIS. Those entities include the Buffalo Field Campaign, FaunaWest, Gallatin Wildlife Association, Greater Yellowstone Coalition; Montana State Historic Preservation Office; Montana State University; Nevada Department of Wildlife; Nez Perce Tribe; Umatilla Tribe; Western Transportation Institute.

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5.2 List of Acronyms

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| ADFG | Alaska Department of Fish and Game |
| APHIS | Animal and Plant Health Inspection Service |
| APR | American Prairie Reserve |
| BLM | Bureau of Land Management |
| BCWMU | Book Cliffs Wildlife Management Unit |
| BVD | Bovine viral diarrhea |
| BTB | Bovine tuberculosis |
| BSE | Bovine Spongiform Encephalopathy |

List of Acronyms (continued)

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| CFR | Code of Federal Regulations |
| COSEWIC | Committee on the Status of Endangered Wildlife in Canada |
| CMR | Charles M. Russell National Wildlife Refuge |
| CSKT | Confederated Salish and Kootenai Tribes |
| DBWG | Delta Bison Working Group |
| DNRC | Department of Natural Resources and Conservation |
| DOI | Department of Interior |
| MDOL | Montana Department of Livestock |
| DSA | Designated Surveillance Area |
| EA | Environmental Assessment |
| EIS | Environmental Impact Statement |
| FLNRO | Forest Lands and Natural Resource Operations |
| FWP | Montana Fish, Wildlife and Parks |
| GYA | Greater Yellowstone Area |
| IBMP | Interagency Bison Management Plan |
| ITBC | InterTribal Buffalo Council |
| IUCN | International Union for the Conservation Nature |
| MACD | Montana Association of Counties |
| MACo | Montana Association of Counties |
| MCF | Malignant catarrhal fever |
| MCA | Montana Code Annotated |
| MEPA | Montana Environmental Protection Act |
| MNHP | Montana Natural Heritage Program |
| MT | Montana |
| NEP | Nonessential Experimental Population |
| NBR | National Bison Range |
| NPS | National Park Service |
| NWF | National Wildlife Federation |
| QFS | Quarantine Feasibility Study |
| SITLA | School and Institutional Trust Lands Administration |
| SNP | Single Nucleotide Polymorphism |
| SRPBS | Sturgeon River Plains Bison Stewards |
| UDWR | Utah Division of Wildlife Resources |
| USFWS | United States Fish and Wildlife Service |
| USFS | United State Forest Service |
| WY | Wyoming |
| YNP | Yellowstone National Park |

5.3 Literature Cited

- Alaska Wood Bison Management Planning Team, 2015. Wood bison management plan for lower Innoko/Yukon River in Westcentral Alaska, 2015-2020. Alaska Department of Fish and Game, Division of Wildlife Conservation, Fairbanks.
- Alaska Department of Game and Fish, 2013. Environmental Assessment Designation of Nonessential Experimental Population Status for Wood Bison in Interior Alaska.
- American Bison Society, 2011. Recommendations from the American Bison Society Meeting on Bison Ecological Restoration. American Bison Society, Tulsa: Oklahoma, March 23-25, 2011.
- Anderson, N., J. Shamhart., T. Ritter., J. Ramsey., K. Proffitt., K. Carson., C. Fager., and B. Brandon. (2012). 2011-2012 Elk Brucellosis Survey and Research Summary. Helena, MT: Montana Fish, Wildlife & Parks
- Animal and Plant Health Inspection Services Veterinary Services (APHIS Veterinary Services). 2009. A Concept Paper for a New Direction for the Bovine Brucellosis Program. Retrieved from:
http://liv.mt.gov/liv/Brucellosis/APHIS_brucellosis%20concept%20paper.pdf
- Animal and Plant Health Inspection Services (APHIS). 2010a. Bluetongue Disease Information. Retrieved from:
http://www.aphis.usda.gov/animal_health/animal_diseases/bluetongue/
- Animal and Plant Health Inspection Services (APHIS). 2010b. Johne's Disease Information. Retrieved from:
http://www.aphis.usda.gov/animal_health/animal_diseases/johnes/index.shtml
- Aune, K.E., J. Rhyan., B. Corso., and T. Roffe. 2009. Environmental persistence of *Brucella* organisms in natural environments of the Greater Yellowstone Area—A preliminary analysis. Paper presented at The Committee on Brucellosis, San Diego, CA.
- Aune, K.E., J.C. Rhyan., R. Russell., T.J. Roffe., and B. Corso. (2012). Environmental Persistence of *Brucella abortus* in the Greater Yellowstone Area. *The Journal of Wildlife Management*. 76 (2) 253-261.
- Aune, K.E., T.L. Roffe., J.C. Rhyan., J. Mack., and W. Clark. 1998. Preliminary results on home range, movements, reproduction and behavior of female bison in northern Yellowstone National Park. In L. Irby and J. Knight (Eds.), *International Symposium on Bison Ecology and Management in North America*, pp. 283–302. Bozeman, MT: Montana State University.

- Bailey, J.A., 2013. *Rewilding an icon*. 238 pp. Helena, MT. Sweetgrass Books.
- Bamforth, D.B. 1987. Historical documents and bison ecology on the Great Plains. *Plains Anthropologist* 32:1–16.
- Barmore, W.J. 1980. Population characteristics, distribution, and habitat relationships of six ungulates in Northern Yellowstone Park. Final report. Yellowstone National Park, WY. National Park Service.
- Barmore Jr., W.J. 2003. Ecology of ungulates and their winter range in Northern Yellowstone National Park: research and synthesis, 1962–1970. Mammoth Hot Springs, WY: National Park Service.
- Beja-Pereira, A., B. Bricker., S. Chen., C. Almendra., P.J. White., and G. Luikart. 2009. DNA genotyping suggests recent brucellosis outbreaks in the Greater Yellowstone area originated from elk. *Journal of Wildlife Diseases* 45:1174–1177.
- Bell, R.V. 1971. A grazing ecosystem in the Serengeti. *Scientific American* 225:86-93.
- Berger, J., and C. Cunningham. 1994a. *Bison: mating and conservation in small populations*. New York: Columbia University Press.
- Bison Management Team. 2002. *Bison management plan*. Arizona Game and Fish Department.
- Bogan, M.A. 1997. Historical changes in the landscape and vertebrate diversity of northern Nebraska. In: F.L. Knopff and F.B. Sampson (Eds.), *Ecology and Conservation of Great Plains Vertebrates*, pp.105–130. New York: Springer.
- Boyd, D.P. 2003. *Conservation of North American bison: status and recommendations*. MS Thesis, University of Calgary, Calgary.
- Boyd, D.P., and C.C. Gates. 2006. A brief review of the status of plains bison in North America. *Journal of the West* 45:15–21.
- Boyd, M.M. 1914. Crossing bison and cattle. *The Journal of Heredity* 5:189–197.
- Brandt, A. 2002. *The journals of Lewis and Clark: Meriwether Lewis and William Clark*. Washington DC: National Geographic Classics.
- Brink, J.W. 2008. *Imagining Head Smashed In: aboriginal buffalo hunting on the Northern Plains*. Edmonton, Alberta: AU Press.
- British Columbia Conservation Foundation. 2010. *Wildlife collision prevention program*. Retrieved from: <http://www.wildlifeaccidents.ca/default.htm>

- British Columbia Ministry of Environment, Lands and Parks, 2000. Bison in British Columbia: ecology, conservation and management.
- Brodie, J.F. 2008. A review of American Bison (*Bos bison*) demography and population dynamics. Wildlife Conservation Society Working Paper No. 35: 1–50.
- Brownell, J.L. 1987. The genesis of wildlife conservation in Montana. M.S. Thesis, Montana State University, Bozeman, MT.
- Buergelt, C.D., A.W. Layton., P.E. Ginn., M. Taylor., J.M. King, P.L. Habecker., E. Mauldin., R. Whitlock., C. Rossiter., and M.T. Collins. 2000. The pathology of spontaneous Paratuberculosis in the North American bison (*Bison bison*). *Veterinary Pathology* 37:428–438.
- Burde, J.H., and G.A. Feldhamer. 2005. Mammals of the National Parks. Baltimore, MD: The Johns Hopkins University Press.
- Butterfield Sr., L.D. 1990. Fencing. In: K. Dowling (Ed.), *Buffalo Producer's Guide to Management & Marketing*, pp. 253–254. Chicago, IL: R.R. Donnelley & Sons Company.
- CBC News. 2001, February 1. Wily bison avoiding hunters. CBC News. Retrieved from: <http://www.cbc.ca/news/story/2001/02/01/01bisonhunt.html>
- Cheville, N.F., D.R. McCullough., L.R. Paulson., N. Grossblatt., K. Iverson., and S. Parker. 1998. *Brucellosis in the Greater Yellowstone Area*. Washington, DC: National Academy Press.
- Clifton-Hadley, R.S., C.M. Sauter-Louis., I.W. Lugton., R. Jackson., P.A. Durr., and J.W. Wilesmith. 2001. Mycobacterial diseases. In: E. S. Williams and I. K Barker (Eds.), *Infectious Diseases of Wild Mammals*, 3rd ed., pp. 340–371. Ames, IA: Iowa State Press.
- Collins, S.L., and G.E. Uno. (1983). The effect of early spring burning on vegetation in buffalo wallows. *Bulletin of the Torrey Biological Club* 111(4): 474-481.
- Conrad, L., and J. Balison. 1994. Bison goring injuries penetrating and blunt trauma. *Journal of Wilderness Medicine* 5:371–381.
- Coppedge, B.R., S.D. Fuhlendorf., D.M. Engle., B.J. Carter., and J.H. Shaw. 1999. Grassland soil depressions: relic bison wallows or inherent landscape heterogeneity? *American Midland Naturalist* 142:382–392.
- COSEWIC, 2013. Committee on the Status of Endangered Wildlife in Canada; Assessment and status report on the Plains Bison and Wood Bison in Canada.

- Dary, D.A. 1989. *The buffalo book: the full saga of the American Animal*. Chicago, IL: Swallow Press.
- Daubenmire, R. 1985. The western limits of the range of the American bison. *Ecology* 66(2): 622-624.
- Davidson, W.R., and W.L. Goff. 2001. Anaplasmosis. In: E.S. Williams and I.K. Barker (Eds.), *Infectious Diseases of Wild Mammals*, 3rd ed., pp. 455–466. Ames, IA: Iowa State Press.
- Davis, D.S., J.W. Templeton., T.A. Ficht., J.D. Huber., R.D. Angus., and L.G. Adams. 1991. *Brucella abortus* in bison. II. Serology, evaluation of Strain 19 vaccination of pregnant cows. *Journal of Wildlife Diseases* 27:360–371.
- Davis, D.S., J.W. Templeton., T.A. Ficht., J.D. Williams., J.D. Kopec, and L.G. Adams. 1990. *Brucella abortus* in captive bison. I. Serology, bacteriology, pathogenesis, and transmission to cattle. *Journal of Wildlife Diseases* 26:258–264.
- DeBois, S., and R. Rogers. (2000) Delta bison management plan 2000-2005. Alaska Department of Fish and Game Division of Wildlife Conservation.
- Dratch, P.A., and P.J. Gogan. 2010. Bison conservation initiative: bison conservation genetics workshop: report and recommendations. Natural Resource Report NPS/NRPC/BRMD/NRR— 2010/257. Fort Collins, CO: National Park Service.
- Duffield, J., D. Patterson, and C. Neher. 2000a. Summer 1990 visitor survey, Yellowstone National Park: Analysis and results. Draft report prepared for the National Park Service, Denver, Colorado.
- Duffield, J., D. Patterson, and C. Neher. 2000b. National telephone survey for attitude toward management of Yellowstone National Park. Final project report. Bioeconomics, Missoula, Montana.
- Dulac, G.C., C. Dubuc., A. Afshar., D.J. Meyers., A. Bouttard., J. Shapiro., P.T. Shettigara, and D. Ward. 1988. Consecutive outbreaks of epizootic hemorrhagic-disease of deer and bluetongue. *The Veterinary Record* 122:340.
- Dupree, A., and I. DiMambro. 2010. Development of mitigation options for bison-vehicle collisions on US 191. Bozeman, MT: Western Transportation Institute.
- Ellison, K. 2013. Habitat management with buffalo for grassland birds: 2013 Report for the Fort Peck Tribes.

- Federal Register Vol. 79, No 88. 50 CFR Part 17 Endangered and threatened wildlife and plants: establishment of a nonessential experimental population of Wood Bison in Alaska.
- Feist, M. 1999. Basic nutrition of bison. Agriculture Knowledge Centre. Retrieved from: www.agriculture.gov.sk.ca
- Flores, D. 1996. The great contraction. In: C.E. Rankin (Ed.), *Legacy: New perspectives on the battle of the Little Bighorn*. Proceedings of the Little Bighorn Legacy Symposium, held in Billings, Montana, August 3-6, 1994. P 3-22. Helena, MT: Montana Historical Society Press.
- Foresman, K.R., 2001. *The wild mammals of Montana*. Lawrence, KS: American Society of Mammalogists.
- Fortin, D., and M. Andruskiw. 2003. Behavioral response of free-ranging bison to human disturbance. *Wildlife Society Bulletin* 31:804–813.
- Fox, T.A., C.H. Hugenholtz., D. Bender., and C.C. Gates. 2012. Can bison play a role in conserving habitat for endangered sandhills species in Canada? *Biodiversity and Conservation* 21(6): 1441-1455.
- Frank, D.A. and S.J. McNaughton. 1992. The ecology of plants, large mammalian herbivores, and drought in Yellowstone National Park. *Ecology* 73: 2043-2058.
- Freese, C.H., K.E. Aune., D.P. Boyd., J.N. Derr., S.C. Forrest., C.C. Gates., P.J.P. Gogan., S.M. Grassel., N.D. Halbert., K. Kunkel., and K.H. Redford. 2007. Second chance for the plains bison. *Biological Conservation* 136:175–184.
- Fresse, C.H., S.D. Fuhlendorf, and K. Kunkel, 2014. A management framework for the transition from livestock production toward biodiversity conservation on Great Plains rangelands. *Ecological Rest.* December 0214 32.358-368.
- Fredin, R.A. 1984. Levels at maximum net productivity in populations of large terrestrial mammals. *Reports of the International Whaling Commission. Special Issue* 6:381-387.
- Fryxell, F.M. 1926. A new high altitude for the American Bison. *Journal of Mammalogy* 7:102–109.
- Fuhlendorf, S.D., B.W. Allred., and R.G. Hamilton. 2010. Bison as keystone herbivores on the Great Plains: Can cattle serve as proxy for evolutionary grazing patterns? *ABS Working Paper No.* 4:1–40.

- Fuller, J.A., R.A. Garrott, P.J. White., K.E. Aune., T.J. Roffe., and J.C. Rhyan. 2007b. Reproduction and survival of Yellowstone bison. *Journal of Wildlife Management* 71:2365–2372.
- Garretson, M.S. 1938. *The American Bison: the story of its extermination as a wild species and its restoration under Federal protection*. New York Zoological Society, New York, NY. Xii + 254 pp.
- Gates, C.C., C.H. Freese., P.J.P. Gogan., and M. Zotzman (Eds. and Comps.). 2010. *American Bison: status survey and conservation guidelines 2010*. Gland, Switzerland: IUCN.
- Geist, V. 1996. *Buffalo nation: history and legend of the North American bison*. Stillwater, MN: Voyageur Press.
- Gogan, P.J., K.M. Podruzny., E.M. Olexa., H.I. Pac., and K.L. Frey. 2005. Yellowstone bison fetal development and phenology of parturition. *Journal of Wildlife Management* 69:1716–1730.
- Government of Yukon, 2012. Management plan for the Aishihik Wood Bison (*Bison bison athabascae*) herd in southwestern Yukon, Environment Yukon, Whitehorse, Yukon. 28 pp.
- Grau, K., 2013. Economic Contribution of Travel in Montana - Resident and Nonresident Expenditures in the State. University of Montana Institute for Tourism and Recreation Research, Retrieved from: <http://www.itrr.umt.edu/NicheNews12/2011-12ResAndNonresEconImpact.pdf>
- Gross, J.E., M.W. Miller, J.E. Roelle, and G.L. Williams. 1973. Program ONEPOP and information processor: a systems modeling and communications project. Progress Report, Colorado Cooperative Wildlife Research Unit, Colorado State University, Fort Collins.
- Gross, J.E., and G. Wang. 2005. Effects of population control strategies on retention of genetic diversity in National Park Service Bison (*Bison bison*) herds. Bozeman, MT: USGS-Biological Resources Division.
- Guthrie, R.D. 1980. Bison and man in North America. *Canadian Journal of Anthropology* 1:55–73.
- Halbert, N.D., and J.N. Derr. 2007. A comprehensive evaluation of the introgression of cattle into the U.S. federal bison herds. *Journal of Heredity* 98:1-12.
- Harrington, J.L. 2005. Characteristics of ungulate behavior and mortality associated with wire fences. MS thesis, Utah State University, Logan, UT. 48 pp.

- Harrington, J.L., and M.R. Conover. 2006. Characteristics of ungulate behavior and mortality associated with wire fences. *Wildlife Society Bulletin* 34(5)1295-1305.
- Hart, R.H., 2001. Where the buffalo roamed – or did they? *Great Plains Research* 11:83-102.
- Hedrick, P.W. 2009. Conservation genetics and North American bison (*Bison bison*). *Journal of Heredity* 100:411–420.
- Heuschele, W.P., and H.W. Reid. 2001. Malignant Catarrhal Fever. In: E.S. Williams and I.K. Barker (Eds.), *Infectious Diseases of Wild Mammals*, 3rd ed, pp.157–164. Ames, IA: Iowa State Press.
- Higgins, J., T. Stuber., C Quance., W.H. Edwards., R.V. Tiller., T. Linfield., J. Rhyan., A. Berte., and B. Harris. 2012. Molecular epidemiology of *Brucella abortus* isolates from cattle, elk, and bison in the United States, 1999 to 2011. *Applied and Environmental Microbiology* 78(10): 3674-3684.
- Hornaday, W.T. 1889. The extermination of the American Bison, with a sketch of its discovery and life history: annual report (1887). Washington, DC: Smithsonian Institution.
- Hugh-Jones, M.E., and S.N. Hussaini. 1975. Anthrax in England and Wales 1963-1972. *The Veterinary Record* 97:256–261.
- Institute for Tourism and Recreation Research Institute, University of Montana, 2005. Missoula, Montana.
- Interagency Bison Management Plan (IBMP). 2000. Record of Decision. Retrieved from: <http://ibmp.info/library.php>
- Interagency Bison Management Plan (IBMP). 2011. *Adaptive Management Adjustments to the Interagency Bison Management Plan*.
- Isenberg, A.C. 2000. The destruction of the bison: an environmental history 1750 -1920. Cambridge, United Kingdom: Cambridge University Press.
- Intertribal Bison Cooperative (ITBC). 2011. Who we are. Retrieved from: <http://itcbison.com/about.php>
- IUCN/SSC. 2013. Guidelines for Reintroductions and Other Conservation Translocations. Version 1.0. Gland, Switzerland: IUCN Species Survival Commission, viiii + 57 pp.
- Karhu R., 2004. Fencing guidelines for wildlife. Habitat Extension Bulletin No. 53. Laramie, WY: Wyoming Game and Fish Department.

- Karhu, R. 2004. MFWP's A Landowner's Guide to Wildlife Friendly Fences: How to Build Fence with Wildlife in Mind. Helena, MT. Montana Fish, Wildlife and Parks, Helena.
- Kirkwood, J.K., and A.A. Cunningham. 1994. Epidemiologic observations on spongiform encephalopathies in captive wild animals in the British Isles. *Veterinary Record* 135:296-303.
- Knapp, A.K., J.M. Blair., J.M Briggs., S.L. Collins., D.C. Hartnett., L.C. Johnson., and E.G. Towne. 1999. The keystone role of bison in North American tallgrass prairie. *BioScience* 49:39-50.
- Knowles, C.J. 2001. Suitability of Montana wildlands for bison reintroduction. FaunaWest Wildlife Consultants. Boulder, MT.
- Knopf, F.L. 1996. Prairie legacies: Birds. In F.B. Samson and F.L. Knopf (Eds.), *Prairie Conservation: Preserving North America's Most Endangered Ecosystem*, pp. 135-148. Covelo, CA: Island Press.
- Kohl, M.T., P.R. Krausman, K. Kunkel, and D.M. Williams. 2013. Bison versus cattle: are they ecologically synonymous? *Rangeland Ecology & Management*. 66(6):721-731.
- Larter, C.C., and C. Gates, 1994. Home-range size of wood bison. Effects of age, sex, and forage availability. *Journal of Mammalogy* 75:142-49.
- Larter, N.C., A.R.E. Sinclair, T. Ellsworth, J. Nishi, and C.C. Gates, 2000. Dynamics of reintroduction in an indigenous large ungulate: the wood bison of northern Canada. *Animal Conservation* 4:299-309.
- Lee, P.F., 1990. High tensile fencing. In: K. Dowling (Ed.), *Buffalo Producer's Guide to Management & Marketing*, pp. 256-264. Chicago, IL: R.R. Donnelley & Sons Company.
- Li, H., D.T. Shen., D.A. Jessup., D.P. Knowles., J.R. Gorham., T. Thorne., D. O'Toole., and T.B. Crawford. 1996. Prevalence of antibody to malignant catarrhal fever virus in wild and domestic ruminants by competitive-inhibition ELISA. *Journal of Wildlife Diseases* 32:437-443.
- Licht, D.S., 2014. *Bison (Bison bison) restoration and management options on the south Unit and adjacent lands of Badlands National Park in South Dakota, A technical evaluation*. Natural Resource Report NPS/BADL/NRR-2014/881. 92 pp.
- Loken, T., 1995. Ruminant pestivirus infections in animals other than cattle and sheep. *Veterinary Clinics of North America: Food Animal Practice* 11:597-614.
- Long, J. 2003. *Introduced mammals of the world: their history, distribution, and influence*. Collingwood VIC Australia: CSIRO Publishing.

- Lott, D.F. 2002. American bison. A natural history. Los Angeles, CA: University of California Press.
- Mack, R.N., and J.N. Thompson. 1982. Evolution in steppe with few large, hooved mammals. *The American Naturalist* 119:757–773.
- Meagher, M., 1973. The bison of Yellowstone National Park. Scientific Monographs 1. National Park Service, Washington, DC: Government Printing Office.
- Meagher, M. 1978 Bison. In J.L. Schmidt and D.L. Gilbert (Eds.), *Big Game Of North America Ecology and Management*. pp. 123–134. Harrisburg, PA: Stackpole Books.
- McHugh, T. 1972. The time of the buffalo. New York, NY: Alfred A. Knopf, Inc.
- McMillan, S. 2009, December. The (surprisingly) quiet bison hunt. *Montana Outdoors*. Retrieved from:
<http://fwp.mt.gov/mtoutdoors/HTML/articles/2009/bisonhunt.htm>.
- McMillan, B.R., M.R. Cottam., and D.W. Kaufman. 2000. Wallowing behavior of American bison (*Bison bison*) in tallgrass prairie: an examination of alternate explanations. *American Midland Naturalist* 144:159–167.
- McMillan, B.R., and K.A. Pfeiffer. 2011. Vegetation responses to an animal-generated disturbance (bison wallows) in tallgrass prairie. *American Midland Naturalist* 165: 60-73.
- Montana Department of Livestock (MDOL). 2010a. Anthrax. Retrieved from:
<http://liv.mt.gov/liv/ah/diseases/anthrax/general.asp>
- 2010b. Bovine spongiform encephalopathy (BSE). Retrieved from:
<http://liv.mt.gov/liv/ah/diseases/bse/general.asp>
- 2010c. Brucellosis. Retrieved from:
<http://liv.mt.gov/liv/ah/diseases/brucellosis/general.asp>.
- 2010e. Tuberculosis. Retrieved from:
<http://liv.mt.gov/liv/ah/diseases/tuberculosis/general.asp>
2013. FAQ - Brucellosis and the designated surveillance area. Retrieved from:
http://liv.mt.gov/brucellosis/dsa_faq.mcp
- Montana Fish, Wildlife, and Parks (FWP). 2005. Montana’s comprehensive fish and wildlife conservation strategy. Helena, MT.
- 2010a. Montana’s species of concern. Retrieved from: <http://fwp.mt.gov/wildthings/concern/mammals.html>

2011. Draft environmental assessment for the interim translocation of bison. Helena, MT.
2011. Crucial Areas Assessment. Retrieved from:
<http://MFWP.mt.gov/fishAndWildlife/conservationInAction/crucialAreas.html>).
2011. Game damage policy, page 2, DOO610, August 30, 2002. Helena, MT.
- Montana Fish, Wildlife and Parks and Montana Natural Heritage Program (FWP and MNHP). 2010a. Bison—*Bos bison*. Montana Field Guide. Retrieved from:
http://FieldGuide.mt.gov/detail_AMALE01010.aspx
- Montana Fish, Wildlife and Parks and Montana Natural Heritage Program (FWP and MNHP). 2010b. Species status codes. Montana field guide. Retrieved from:
<http://fieldguide.mt.gov/statusCodes.aspx#soc>
- Montana Natural Heritage Program (MNHP). 2010. Animal Species of Concern. Retrieved from: <http://mtnhp.org/SpeciesOfConcern/?AorP=a>
- Moodie, D.W. & A.J. Ray. 1976. Buffalo migrations in the Canadian plains. *Plains Anthropologists* 21 (71):45-52.
- Montana Wyoming Tribal Leaders Council. 2012. Resolution-01 May 2012-01. Billings, MT
www.mtwytlc.org
- Montana Wyoming Tribal Leaders Council. 2013. Resolution-23 March 2013-09. Billings, MT
www.mtwytlc.org
- Mowry, T. 2005. Wood bison on the horizon – Bison questions answered. *Alaska Fish & Wildlife News*. Alaska Department of Fish and Game. Juneau, AK
- Mundinger, J., and T. Everts. 1998. A guide to the Montana Environmental Policy Act. Legislative Environmental Policy Office, Environmental Quality Office, Helena. 74 pp.
- National Agricultural Statistics Service : U.S. Department of Agriculture. 2012. Montana Agricultural Statistics: 2010-2011 County Estimates. Retrieved from:
http://www.nass.usda.gov/Statistics_by_State/Montana/Publications/Annual_Statistical_Bulletin/2012/2012_Bulletin.pdf
- Nelson, K.L. 1965. Status and habits of the American Buffalo (*Bison bison*) in the Henry Mountain area of Utah. Utah State Department of Fish and Game Publication No. 65-2.

- Nishi, J. S., D.C. Dragon., B.T. Elkin., J. Mitchell., T.R. Ellsworth., and M.E. Hugh-Jones. 2002. Emergency response planning for anthrax outbreaks in bison herds of northern Canada: A balance between policy and science. *Annals of the New York Academy of Science* 969:245–250.
- Norland, J.E. 1984. Habitat use and distribution of bison in Theodore Roosevelt National Park. MS Thesis, Montana State University, Bozeman, MT.
- Nowak, R.M., and J.L. Paradiso. 1983. *Walker's Mammals of the World*, 4th ed. Baltimore, MD: The Johns Hopkins University Press.
- Olliff, T., and J. Caslick. 2003. Wildlife-human conflicts in Yellowstone: When animals and people get too close. *Yellowstone Science* 11:18–22.
- Olsen, S.C., S.M. Boyle., G.G. Schurig., and N.N. Sriranganathan. 2009. Immune responses and protection against experimental challenge after vaccination of bison with *Brucella abortus* Strain RB51 or RB51 overexpressing superoxide dismutase and glycosyltransferase genes. *Clinical and Vaccine Immunology* 16:535–540.
- Paige, C. 2008. A landowner's guide to wildlife friendly fences. Landowner/Wildlife Resource Program. Helena, MT: Montana Fish, Wildlife & Parks.
- Palmer, M.V., S.C. Olsen., M.J. Gilsdorf., L.M. Philo., P.R. Clarke., and N.F. Cheville. 1996. Abortion and placentitis in pregnant bison (*Bison bison*) induced by the vaccine candidate, *Brucella abortus* strain RB51. *American Journal of Veterinary Research* 57:1604–1607.
- Parks Canada. 2009. Sturgeon River Plains Bison. Retrieved from: <http://www.pc.gc.ca/eng/pn-np/sk/princealbert/natcul/natcul4.aspx>
- Pastoret, P.P., E. Thiry., B. Brochier., A. Schwerts., I. Thomas., and J. Dubuisson. 1988. Disease of wild animals transmissible to domestic animals. *Revue Scientifique et Technique* 7:705–736.
- Peden, D.G. 1972. The trophic relations of *Bison bison* to the shortgrass plains. Ph.D. Dissertation, Colorado State University, Fort Collins.
- Peden, D.G., G.M. Van Dyne, R.W. Rice., and R.M. Hansen. 1974. The trophic ecology of *Bison bison* L. on shortgrass plains. *The Journal of Applied Ecology* 11:489–497.
- Pérez-Figueroa, A., R.L. Wallen, Tiago, A., J.A. Coombs, M.K. Schwartz, P.J. White, and G. Luikart. 2012. Conserving genomic variability in large mammals: Effect of population fluctuations and variance in male reproductive success on variability in Yellowstone bison. *Biological Conservation*. 1:159-166.

- Person, D. 2010a, July 15. Anthrax detected again on Turner's ranch. Bozeman Daily Chronicle, Retrieved from:
http://www.bozemandailychronicle.com/news/article_f3488ec2-8fa7-11df-9a62-001cc4c002e0.html
- Phillips, P.C. ed. 1997. Granville Stuart. Pioneering in Montana: The making of a state, 1864-1887.
- Picton, H.D. 2005. Buffalo natural history and conservation. Stillwater, MN: Voyageur Press.
- Polziehn, R.O., C.M. Strobeck, J. Sheraton, and R. Beech. 1995. Bovine mtDNA discovered in North American bison populations. *Conservation Biology* 9:1638–1643.
- Proffitt, K.M., P.J. White, and R.A. Garrott. 2010. Spatio-temporal overlap between Yellowstone bison and elk- implications of wolf restoration and other factors for brucellosis transmission risk. *Journal of Applied Ecology* 47:281–289.
- Prusiner, S.B. 1982. Novel proteinaceous infectious particles cause scrapie. *Science* 216:136–144.
- Quitmeyer, C.J., J.A. Bopp, R.M. Stephens, R. Karhu, and S. Anderson. 2004. High tensile electric fence: Phase 2 – liability issues, maintenance costs, and containment of bison. Laramie, WY: Wyoming Cooperative Fish and Wildlife Research Unit.
- Raicovich, G. 2012. Situation assessment: land use changes in Phillips County, Montana. Missoula, MT: University of Montana.
- Ranglack, D.H., S. Durham, and J.T. de Toit. 2015. Competition on the range: science vs. perception in a bison-cattle conflict in the western USA. *Journal of Applied Ecology* 52(2): 467-474.
- Reynolds, H.W., C.C. Gates, and R.D. Glaholt. 2003. Bison. In: G.A. Feldhamer, B.C. Thompson, and J.A. Chapman (Eds.), *Wild Mammals of North America: Biology, Management, and Conservation* Second Edition, pp. 1009–1059. Baltimore, MD: The Johns Hopkins University Press.
- Rhyan, J.C., K.E. Aune, D.R. Ewalt, J. Marquardt, J.W. Mertins, J.B. Payeur, D.A. Saari, P. Schladweiler, E J. Sheehan, and D. Worley. 1997. Survey of free-ranging elk from Wyoming and Montana for selected pathogens. *Journal of Wildlife Diseases* 33:290–298.
- Rhyan, J.C., Aune, K.E., Roffe, T.J., Ewalt, D., Hennager, S., Gidlewski, T., Olsen, S. & Clarke, R. 2009. Pathogenesis and epidemiology of brucellosis in Yellowstone bison: serologic and culture results from adult females and their progeny. *Journal of Wildlife Diseases* 45:729–739.

- Roe, F.G. 1970. The North American Buffalo. A critical study of the species in its wild state. 2nd ed. Toronto: University of Toronto Press.
- Roffe, T.J., S.C. Olsen., T. Gidlewski., A.E. Jensen., M.V. Palmer., and R. Huber. 1999. Biosafety of parenteral *Brucella abortus* RB51 vaccine in bison calves. The Journal of Wildlife Management 63: 950–955.
- Roll, P.E., and Fisher, J.W. Jr. 2010. Map developed at Montana State University, Bozeman, MT.
- Ronnow, K. 2008, July 31. Anthrax kills 25 bison on Turner’s Flying D. Bozeman Daily Chronicle. Retrieved from:
http://www.bozemandailychronicle.com/news/article_b2a1b950-1e6d-5cc6-9185-718c69afdc68.html
- Schultheiss, P.C., J.K. Collins, M.W. Miller, G. Brundige, T.K. Bragg, J.G. Peterson, and M.T. Jessen. 2001. Malignant catarrhal fever in bison. Veterinary Pathology 38:577.
- Schwartz, C.C., J. Nagy, and R. Rice. 1977. Pronghorn dietary quality relative to forage availability and other ruminants in Colorado. Journal of Wildlife Management 41:161-68.
- Shaw, J.H. 1995. How many bison originally populated western rangelands? Rangelands 17:148–150.
- Singer, Frances. 1995. Effects of Grazing by Ungulates on Upland Bunchgrass Communities In the Northern Winter Range of Yellowstone National Park. Northwest Science 69(3):191-203.
- Singer, F.J., and J.E. Norland. 1994. Niche relationships within a guild of ungulate species in Yellowstone National Park, Wyoming, following release from artificial controls. Canadian Journal of Zoology 72: 1383-1394.
- Stelljes, K.B. 1999. The Bluetongue triangle. Agricultural Research Magazine 47:4–6.
- Taylor, A.R., and R.L. Knight. 2003. Wildlife responses to recreation and associated visitor perceptions. Ecological Applications 13:951–963.
- Taylor, S.K., V.M. Lane., D.L. Hunter., K.G. Eyre., S. Kaufman., S. Frye., and M.R. Johnson. 1997. Serologic survey for infectious pathogens in free-ranging American bison. Journal of Wildlife Disease 33:308–311.
- Thorne, E.T. 2001. Brucellosis. In: E.S. Williams and I.K. Barker (Eds.), Infectious Diseases of Wild Mammals, 3rd ed., pp. 372–395. Ames, IA: Iowa State Press.

- Town, E.G., D.C. Hartnett, and R. C. Cochran, 2005. Vegetation trends in tallgrass prairie from bison and cattle grazing. *Ecological Applications*, 15(5):1550-1559.
- Trager, M.D., G.W.T. Wilson, and D.C. Hartnett. 2004. Concurrent effects of fire regime, grazing and bison wallowing on tallgrass prairie. *American Midland Naturalist* 152 (2): 237-247.
- Treanor, J.J., C. Germentia., P.H. Crowley., J.J. Cox., P.J. White., R.L. Wallen., and D.W. Blanton. 2011. Estimating probabilities of active brucellosis infection in Yellowstone bison through quantitative serology and tissue culture. *Journal of Applied Ecology* 48:1324-1332.
- Truett, J.C., M. Phillips., K. Kunkel, and R. Miller. 2001. Managing bison to restore biodiversity. *Great Plains Research* 11:123–144.
- U.S. Department of the Interior (USDI). 2000. National Park Service, and United States Department of Agriculture, Forest Service, Animal and Plant Health Inspection Service. 2000a. Final environmental impact statement for the interagency bison management plan for the State of Montana and Yellowstone National Park. Washington, D.C. USDI and USDA. Retrieved from:
<http://www.ibmp.info/library.php>
- U.S. Department of the Interior (USDI). 2007. Record of decision National Elk Grand Teton National Park-final bison and elk management plan and environmental impact statement. United States Department of the Interior. Retrieved from:
<http://www.fws.gov/bisonandelkplan/>
- U.S. Fish and Wildlife Service (USFWS). 1997. Wildlife biologue: American buffalo (*Bison bison*). United States Fish and Wildlife Service. Retrieved from:
<http://library.fws.gov/Pubs/buffalo.pdf>
- U.S. Fish and Wildlife Service (USFWS). 2014. Draft Environmental Assessment for a Draft Annual Funding Agreement. National Bison Range Complex, Montana. 108pp.
- Utah Division of Wildlife Resources (2007a). Bison herd unit management Plan: Book Cliffs, Bitter Creek and Little Creek: Herd Unit #10A and #10C. Retrieved from:
http://wildlife.utah.gov/hunting/biggame/pdf/bison_10.pdf
- Utah Division of Wildlife Resources (2007b). Bison Herd Unit Management Plan: Unit #15 Henry Mountains. Retrieved from:
http://wildlife.utah.gov/hunting/biggame/pdf/bison_15.pdf
- United States Census Bureau State and County Quick Facts, 2014. Annual estimates of the resident population: April 1, 2010 to July 1, 2013. 2013 Population Estimates.

- Van Campen, H., K. Frölich., and M. Hofmann. 2001. Pestivirus infections in: E.S. Williams and I.K. Barker (Eds.), *Infectious Diseases of Wild Mammals*, 3rd ed., pp. 232–244. Ames, IA: Iowa State Press.
- Van Ness, G.B. 1971. Ecology of anthrax. *Science* 172:1303–1307.
- Van Vuren, D.H. 1980. Ecology and behavior of bison in the Henry Mountains, Utah. MS Thesis, Oregon State University, Corvallis.
- Van Vuren, D.H. 1983. Group dynamics and summer home range of bison in southern Utah. *Journal of Mammalogy* 64:329–332.
- Van Vuren, D.H. 2001. Spatial relations of American bison (*Bison bison*) and domestic cattle in a montane environment. *Animal Biodiversity and Conservation* 24:117–124.
- Van Vuren, D., and M.P. Bray, 1983. Diets of bison and cattle on a seeded range in Southern Utah. *Journal of Range Management*, 35, 499-500.
- Van Vuren, D. and M.P. Bray, 1986. Population dynamics of bison on the Henry Mountains, Utah. *Journal of Mammalogy* 67:503-511.
- Varley, N., and K.A. Gunther. 2002. Grizzly bear predation on a bison calf in Yellowstone National Park. *Ursus* 13:377–381.
- Ward, T.J., J.P. Bielawski., S.K. Davis., J.W. Templeton., and J.N. Derr. 1999. Identification of domestic cattle hybrids in wild cattle and bison species: a general approach using mtDNA markers and the parametric bootstrap. *Animal Conservation* 2:51–57.
- Ward. T.J. 2000. An evaluation of the outcome of interspecific hybridization events coincident with a dramatic demographic decline in North American Bison. Ph.D dissertation, College Station, TX:Texas A&M University.
- Ware, Ian M, P. Terletzky, P. A. Adler, 2014. Conflicting management objectives on the Colorado Plateau: understanding the effects of bison and cattle grazing on plant community composition. *Journal for Nature Conservation* 22 (2014) 293-301
- Whealdon, Bon I and others. 2001. "I Will Be Meat for My Salish": The Montana Writers Project and the Buffalo of the Flathead Indian Reservation. Salish Kootenai College Press and Montana Historical Society Press.
- White, P.J., J.J Treanor, and R.L. Wallen. 2011a. Balancing brucellosis risk management and wildlife conservation. *Yellowstone Science* 19:15–21.

Williams, E.S., E.T. Thorne., S.L. Anderson., and J.D. Herriges Jr. 1993. Brucellosis in free-ranging bison (*Bison bison*) from Teton County, Wyoming. *Journal of Wildlife Disease* 29:118–122.

Williams, E.S. 2001. Paratuberculosis. In: E.S. Williams, I.K. Barker, and E.T. Thorne, (eds.), *Infectious Diseases of Wild Mammals*, 3rd ed., pp. 361–371. Ames, IA: Iowa State University Press.


World Organization for Animal Health. 2009. Manual of diagnostic tests and vaccines for terrestrial animals 2009. Retrieved from:
http://oie.int/eng/normes/mmanual/A_INDEX.HTM

Wyman, T. 2002. Grizzly bear predation on a bull bison in Yellowstone National Park. *Ursus* 13: 375–377.

Zaugg, J.L., and K.L. Kuttler. 1985. *Anaplasma marginale* infections in American bison: experimental infection and serologic study. *American Journal of Veterinary Research* 46:438–441.

Zinn, H.C., M.J. Manfredo., D.J. Decker. 2008. Human conditioning to wildlife: Steps toward theory and research. *Human Dimensions of Wildlife: An International Journal* 13(6): 388-399.

Zinn, H.C., J.J. Manfredo, and D.J. Decker. 2008. Human Conditioning to Wildlife: Steps Toward Theory and Research. *Human Dimensions of Wildlife*. 13(6):388-399.



5.4 Appendices

5.4.1 Appendix A

Summary of the 2012 public scoping.