

Interagency Grizzly Bear Study Team Publication List 1974–2018



Peer-reviewed Journal Articles:

1. Peck, C. P., F. T. van Manen, C. M. Costello, M. A. Haroldson, L. A. Landenburger, L. L. Roberts, D. D. Bjornlie, and R. D. Mace. 2017. [Potential paths for male-mediated gene flow to and from an isolated grizzly bear population](#). *Ecosphere* 10.1002/ecs2.1969.
2. Costello, C. M., S. L. Cain, S. R. Pils, L. Frattaroli, M. A. Haroldson, and F. T. van Manen. 2016. [Diet and macronutrient optimization in wild ursids: A comparison of grizzly bears with sympatric and allopatric black bears](#). *PLoS ONE* 11(5): e0153702.
3. Ebinger, M. R., M. A. Haroldson, F. T. van Manen, C. M. Costello, D. D. Bjornlie, D. J. Thompson, K. A. Gunther, J. K. Fortin, J. E. Teisberg, S. R. Pils, P. J. White, S. L. Cain, and P. C. Cross. 2016. [Detecting grizzly bear use of ungulate carcasses using global positioning system telemetry and activity data](#). *Oecologia* 181:695–708.
4. van Manen, F. T., M. A. Haroldson, D. D. Bjornlie, M. R. Ebinger, D. J. Thompson, C. M. Costello, and G. C. White. 2016. [Density dependence, whitebark pine decline, and changing vital rates of Yellowstone grizzly bears](#). *Journal of Wildlife Management* 80:300–313.
5. Kamath, P. L., M. A. Haroldson, G. Luikart, D. Paetkau, C. Whitman, and F. T. van Manen. 2015. [Multiple estimates of effective population size for monitoring a long-lived vertebrate: an application to Yellowstone grizzly bears](#). *Molecular Ecology* 24:5507–5521.
6. Bjornlie, D. D., F. T. van Manen, M. R. Ebinger, M. A. Haroldson, D. J. Thompson, C. M. Costello. 2014. [Whitebark pine, population density, and home-range size of grizzly bears in the Greater Yellowstone Ecosystem](#). *PloS ONE* doi 10.1371/journal.pone.0088160.
7. Bjornlie, D. D., D. J. Thompson, M. A. Haroldson, C. C. Schwartz, K. A. Gunther, S. L. Cain, D. B. Tyers, K. L. Frey, and B. C. Aber. 2014. [Methods to estimate distribution and range extent of grizzly bears in the Greater Yellowstone Ecosystem](#). *Wildlife Society Bulletin* 38: 182–187.
8. Costello, C. M., F. T. van Manen, M. A. Haroldson, M. R. Ebinger, S. L. Cain, K. A. Gunther, and D. D. Bjornlie. 2014. [Influence of whitebark pine decline on fall habitat use and movements of grizzly bears in the Greater Yellowstone Ecosystem](#). *Ecology and Evolution* 4:2004–2018.
9. Gunther, K., R. Shoemaker, K. L. Frey, M. A. Haroldson, S. L. Cain, F. T. van Manen, and J. K. Fortin. 2014. [Dietary breadth of grizzly bears in the Greater Yellowstone Ecosystem](#). *Ursus* 25:60–72.
10. Richardson, L., T. Rosen, K. A. Gunther, and C. C. Schwartz. 2014. [The economics of roadside bear viewing](#). *Journal of Environmental Management* 140:102–110.
11. Schwartz, C. C., J. E. Teisberg, J. K. Fortin, M. A. Haroldson, C. Servheen, C. T. Robbins, and F. T. van Manen. 2014. [Use of isotopic sulfur to determine whitebark pine consumption by Yellowstone bears: A reassessment](#). *Wildlife Society Bulletin* 38:664–670.
12. Teisberg, J. E., M. A. Haroldson, C. C. Schwartz, K. A. Gunther, J. K. Fortin, and C.T. Robbins. 2014. [Contrasting past and current numbers of bears visiting Yellowstone cutthroat trout streams](#). *The Journal of Wildlife Management* 78:369–378.
13. van Manen, F. T., M.R. Ebinger, M. A. Haroldson, R. B. Harris, M.D Higgs, S. Cherry, G. C. White, and C. C. Schwartz. 2014. [Re-evaluation of Yellowstone grizzly bear population dynamics not supported by empirical data: response to Doak & Cutler](#). *Conservation Letters* 7:323–331.
14. Ratnayeke, S., F. T. van Manen R. Pieris, and V. S. J. Pragash. 2014. [Challenges of large carnivore conservation: sloth bear attacks in Sri Lanka](#). *Human Ecology* 42:467–479.

15. Haroldson, M. A., and K. A. Gunther. 2013. [Roadside bear viewing opportunities in Yellowstone National Park: characteristics, trends, and influence of whitebark pine](#). *Ursus* 24:27–41.
16. Higgs, M. D., W. A. Link, G. C. White, M. A. Haroldson, and D. D. Bjornlie. 2013. [Insights into the latent multinomial model through mark-resight data on female grizzly bears with cubs-of-the-year](#). *Journal of Agricultural, Biological, and Environmental Statistics* 18:556–577.
17. Laufenberg, J. S., F. T. van Manen, J. D. Clark. 2013. [Effects of sampling conditions on DNA-based estimates of American black bear abundance](#). *The Journal of Wildlife Management* 77:1010–1020.
18. Schwartz, C. C., J. K. Fortin, J. E. Teisberg, M. A. Haroldson, C. Servheen, C. T. Robbins, and F. T. van Manen. 2013. [Body and diet composition of sympatric black and grizzly bears in the Greater Yellowstone Ecosystem](#). *The Journal of Wildlife Management* 78:68–78.
19. Drewry, J. M., F. T. van Manen, and D. M. Ruth. 2013. [Density and genetic structure of black bears in coastal South Carolina](#). *Journal of Wildlife Management* 77:153–164.
20. Ratnayeke, S., and F. T. van Manen. 2012. [Assessing sloth bears as surrogates for carnivore conservation in Sri Lanka](#). *Ursus* 23:206–217.
21. Hopkins, J. B., P. L. Koch, C. C. Schwartz, J. M. Ferguson, S. S. Greenleaf, and S. T. Kalinowski. 2012. [Stable Isotopes to Detect Food-Conditioned Bears and to Evaluate Human-Bear Management](#). *The Journal of Wildlife Management* 76:703–713.
22. Proctor, M. F., et al. 2012. [Population Fragmentation and Inter-Ecosystem Movements of Grizzly Bears in Western Canada and the Northern United States](#). *Wildlife Monographs*. 180:1–46.
23. Schwartz C. C., P. H. Gude, L. Landenburger, M. A. Haroldson, and S. Podruzny. 2012. [Impacts of rural development on Yellowstone wildlife: linking grizzly bear *Ursus arctos* demographics with projected residential growth](#). *Wildlife Biology* 18:246–263.
24. van Manen, F. T., M. F. McCollister, J. M. Nicholson, L. M. Thompson, J. L. Kindall, and M. D. Jones. 2012. [Short-term impacts of a 4-lane highway on American black bears in eastern North Carolina](#). *Wildlife Monographs* 181:1–35.
25. Harris, R. B., C. C. Schwartz, R. D. Mace, and M. A. Haroldson. 2011. [Study design and sampling intensity for demographic analyses of bear populations](#). *Ursus* 22:24–36.
26. Ruth, T. K., M. A. Haroldson, K. M. Murphy, P. C. Buotte, M. G. Hornocker, and H. B. Quigley. 2011. [Cougar survival and source-sink structure on Greater Yellowstone's Northern Range](#). *The Journal of Wildlife Management* 75:1381–1398.
27. Aryal A., S. Sathyakumar, and C. C. Schwartz. 2010. [Current status of brown bears in the Manasalu Conservation Area, Nepal](#). *Ursus* 21:109–114.
28. Haroldson M. A., C. C. Schwartz, K. C. Kendall, K. A. Gunther, D. S. Moody, K. L. Frey, and D. Paetkau. 2010. [Genetic analysis of individual origins supports isolation of grizzly bears in the Greater Yellowstone Ecosystem](#). *Ursus* 21:1–13.
29. Hopkins, J. B., S. Herrero, R. Shideler, K. A. Gunther, C. C. Schwartz, and S. Kalinowski. 2010. [A proposed lexicon of terms and concepts for human–bear management in North America](#). *Ursus* 21:154–168.
30. Schwartz, C. C., S. L. Cain, S. Podruzny, S. Cherry, and L. Frattaroli. 2010. [Contrasting Activity Patterns of Sympatric and Allopatric Black and Grizzly Bears](#). *Journal of Wildlife Management* 74:1628–1638.
31. Schwartz, C. C., M. A. Haroldson, and G. C. White. 2010. [Hazards Affecting Grizzly Bear Survival in the Greater Yellowstone Ecosystem](#). *Journal of Wildlife Management* 74(4):654–667.
32. Schwartz, C. C., S. Podruzny, S. L. Cain, and S. Cherry. 2009. [Performance of spread spectrum global positioning system collars on grizzly and black bears](#). *Journal of Wildlife Management* 72:1174–1182.
33. Swenson, J. E., and M. A. Haroldson. 2008. [Observations of mixed-aged litters in brown bears](#). *Ursus* 19:73–79.

34. Schwartz, C. C., and G. C. White. 2008. [Estimating reproductive rates for female bears: proportions versus transition probabilities](#). *Ursus* 19:1–12.
35. Schwartz, C. C., M. A. Haroldson, S. Cherry, and K. A. Keating. 2008. [Evaluation of rules to distinguish unique female grizzly bears with cubs in Yellowstone](#). *Journal of Wildlife Management* 72:543–554.
36. Cherry, S., G. C. White, K. A. Keating, M. A. Haroldson, and C. C. Schwartz. 2007. [Evaluating estimators for numbers of females with cubs-of-the-year in the Yellowstone grizzly bear population](#). *Journal of Agricultural, Biological, and Environmental Statistics* 12:195–215.
37. Harris, R. B., G. C. White, C. C. Schwartz, and M. A. Haroldson. 2007. [Population growth of Yellowstone grizzlies: uncertainty and future monitoring](#). *Ursus* 18:168–178.
38. Robison H. L., C. C. Schwartz, J. D. Petty, and P. F. Brussard. 2006. [Assessment of pesticide residues in army cutworm moths \(*Euxoa auxiliaris*\) from the Greater Yellowstone Ecosystem and their potential consequences to foraging grizzly bears \(*Ursus arctos horribilis*\)](#). *Chemosphere* 64:1704–1712.
39. Schwartz, C. C., M. A. Haroldson, K. A. Gunther, and D. Moody. 2006. [Distribution of grizzly bears in the Greater Yellowstone Ecosystem in 2004](#). *Ursus* 17:63–66.
40. Schwartz, C. C., M. A. Haroldson, G. C. White, R. B. Harris, S. Cherry, K. A. Keating, D. Moody, and C. Servheen. 2006. [Temporal, spatial, and environmental influences on the demographics of grizzly bears in the Greater Yellowstone Ecosystem](#). *Wildlife Monographs* 161.
41. Haroldson, M. A., K. A. Gunther, D. P. Reinhart, S. R. Podruzny, C. Cegelski, L. Waits, T. Wyman, and J. Smith. 2005. [Changing numbers of spawning cutthroat trout in tributary streams of Yellowstone Lake and estimates of grizzly bears visiting streams from DNA](#). *Ursus* 16(2):167–180.
42. Herrero S., T. Smith, D. DeBruyn, K. A. Gunther, and C. A. Matt. 2005. [Brown bear habituation to people - safety, risks, and benefits](#). *Wildlife Society Bulletin* 33:362–373.
43. Mattson D. J., S. R. Podruzny, and M. A. Haroldson. 2005. [Consumption of pondweed rhizomes by Yellowstone grizzly bears](#). *Ursus* 16:41–46.
44. Felicetti, L. A., C. C. Schwartz, R. O. Rye, M. A. Haroldson, K. A. Gunther, L. Waits, and C.T. Robbins. 2004. [Use of naturally-occurring mercury to determine the importance of cutthroat trout to Yellowstone grizzly bears](#). *Canadian Journal of Zoology* 82:493–501.
45. Gunther, K. A., S. L. Cain, J. Copeland, K. L. Frey, M. A. Haroldson, and C. C. Schwartz. 2004. [Grizzly bear-human conflicts in the Greater Yellowstone Ecosystem, 1992-2000](#). *Ursus* 15:10–22.
46. Gunther, K. A., and D.W. Smith. 2004. [Interactions between wolves and female grizzly bears with cubs in Yellowstone National Park](#). *Ursus* 15:232–238.
47. Haroldson, M. A., C. C. Schwartz, S. Cherry, and D.S. Moody. 2004. [Possible effects of elk harvest on fall distribution of grizzly bears in the Greater Yellowstone Ecosystem](#). *Journal of Wildlife Management* 68:129–137.
48. Hilderbrand, G. V., S. D. Farley, C. C. Schwartz, and C. T. Robbins. 2004. [Importance of salmon to wildlife: implications for integrated management](#). *Ursus* 15:1–9.
49. Johnson, C. J., M. S. Boyce, C. C. Schwartz, M. A. Haroldson. 2004. [Modeling survival: application of the Andersen-Gill model to Yellowstone grizzly bears](#). *Journal of Wildlife Management* 68:966–978.
50. Pyare, S., S. L. Cain, D. Moody, C. C. Schwartz, and J. Berger. 2004. [Carnivore re-colonisation: reality, possibility and a non-equilibrium century for grizzly bears in the Southern Yellowstone Ecosystem](#). *Animal Conservation* 7:71–77.
51. Robbins, C. T., C. C. Schwartz, L. A. Felicetti. 2004. [Nutritional ecology of ursids: a review of newer methods and management implications](#). *Ursus* 15:161–171.

52. Felicetti, L. A., C. C. Schwartz, R. O. Rye, M. A. Haroldson, K. A. Gunther, D. L. Phillips, and C. T. Robbins. 2003. [Use of sulfur and nitrogen stable isotopes to determine the importance of whitebark pine nuts to Yellowstone grizzly bears](#). Canadian Journal of Zoology 81:763–770.
53. Hundertmark K. J., T.R. Bowyer, G.F. Shields, and C. C. Schwartz. 2003. [Mitochondrial phylogeography of moose \(*Alces alces*\) in North America](#). Journal of Mammalogy 84:315–25.
54. Ruth, T. K., D. W. Smith, M. A. Haroldson, P. C. Buotte, C. C. Schwartz, H. B. Quigley, S. Cherry, K. M. Murphy, D. Tyers, and K. L. Frey. 2003. Large-carnivore response to recreational big-game hunting along the Yellowstone National Park and Absaroka-Beartooth Wilderness boundary. Wildlife Society Bulletin 31:1150–1161.
55. Schwartz, C. C., K. A. Keating, H. V. Reynolds, III, V. G. Barnes, Jr., R. A. Sellers, J. E. Swenson, S. D. Miller, B. N. McLellan, J. Keay, R. McCann, M. Gibeau, W. F. Wakkinen, R. D. Mace, W. Kasworm, R. Smith, and S. Herrero. 2003. [Reproductive maturation and senescence in the female brown bear](#). Ursus 14:109–119.
56. Schwartz, C. C., J. E. Swenson, and S. D. Miller. 2003. [Large carnivores, moose, and humans: a changing paradigm of predator management in the 21st century](#). Alces 39:41–63.
57. Cherry, S., M. A. Haroldson, J. Robison-Cox, and C. C. Schwartz. 2002. [Estimating total human-caused mortality from reported mortality using data from radio-instrumented grizzly bears](#). Ursus 13:175–184.
58. Haroldson, M. A., M. Ternent, K. A. Gunther, and C. C. Schwartz. 2002. [Grizzly bear denning chronology and movements in the Greater Yellowstone Ecosystem](#). Ursus 13:29–37.
59. Hundertmark, K. J., G. F. Shields, I. G. Udina, R. T. Bowyer, A. A. Danilkin, and C. C. Schwartz. 2002. [Mitochondrial phylogeography of moose \(*Alces alces*\): late Pleistocene divergence and population expansion](#). Molecular Phylogenetics and Evolution 22:375–387.
60. Keating, K. A., C. C. Schwartz, M. A. Haroldson, and D. Moody. 2002. [Estimating number of females with cubs-of-the-year in the Yellowstone grizzly bear population](#). Ursus 13:161–174.
61. Mattson, D. J., S. Podruzny, and M. A. Haroldson. 2002. [Consumption of fungal sporocarps by Yellowstone grizzly bears](#). Ursus 13:95–103.
62. Podruzny, S. R., S. Cherry, C. C. Schwartz, and L.A. Landenburger. 2002. [Grizzly bear denning and potential conflict areas in the Greater Yellowstone Ecosystem](#). Ursus 13:19–28.
63. Schwartz, C. C., M. A. Haroldson, K. A. Gunther, and D. Moody. 2002. [Distribution of grizzly bears in the Greater Yellowstone Ecosystem, 1990–2000](#). Ursus 13:203–212.
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65. Kester, C. L., R. O. Rye, C. A. Johnson, C. C. Schwartz, and C. H. Holmes. 2001. [On-line sulfur isotope analysis of organic material by direct combustion: preliminary results and potential applications](#). Isotopes in Environmental and Health Studies 37:53–65.
66. Reinhart, D. P., M. A. Haroldson, D. J. Mattson, and K. A. Gunther. 2001. [Effects of exotic species on Yellowstone's grizzly bears](#). Western North American Naturalist. 61:277–288.
67. Hilderbrand, G. V., C. C. Schwartz, C. T. Robbins, and T. A. Hanley. 2000. [Effect of hibernation and reproductive status on body mass and condition of coastal brown bears](#). Journal of Wildlife Management 64:178–183.
68. Shields, G. F., D. Adams, G. Garner, M. Labelle, J. Pietsch, R. Ramsay, C. C. Schwartz, K. Titus, and S. Williamson. 2000. [Phylogeography of mitochondrial DNA variation in brown bears and polar bears](#). Molecular Phylogenetics and Evolution 15:319–326.
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70. Hilderbrand, G. V., T. A. Hanley, C. T. Robbins, and C. C. Schwartz. 1999. [Role of brown bears \(*Ursus arctos*\) in the flow of marine nitrogen into a terrestrial ecosystem](#). *Oecologia* 121:546–550.
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72. Podruzny, S. R., D. P. Reinhart, and D. J. Mattson. 1999. [Fire, red squirrels, whitebark pine, and Yellowstone grizzly bears](#). *Ursus* 11:131–138.
73. Schwartz, C. C., and S. M. Arthur. 1999. [Radio-tracking large wilderness mammals: integration of GPS and Argos technologies](#). *Ursus* 11:261–270.
74. Eberhardt, L.L., and R. R. Knight. 1996. [How many grizzlies in Yellowstone?](#) *Journal of Wildlife Management*. 60:416–421.
75. Blanchard, B. M., and R. R. Knight. 1995. [Biological consequences of relocating grizzly bears in the Yellowstone ecosystem](#). *Journal of Wildlife Management*. 59:560–565.
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78. French, S. P., M. G. French, and R. R. Knight. 1994. Grizzly bear use of army cutworm moths in the Yellowstone Ecosystem. *International Conference on Bear Research and Management* 9:389–399.
79. Blanchard, B. M., R. R. Knight, and D. J. Mattson. 1992. Distribution of Yellowstone grizzly bears during the 1980s. *American Midland Naturalist* 128:332–338.
80. Mattson, D. J., B. M. Blanchard, and R. R. Knight. 1992. [Yellowstone grizzly bear mortality, human-habituation, and whitebark pine seed crops](#). *Journal of Wildlife Management* 56:432–442.
81. Mattson, D. J., R. R. Knight, and B. M. Blanchard. 1992. [Cannibalism and predation on black bears by grizzly bears in the Yellowstone ecosystem, 1975–1990](#). *Journal of Mammalogy* 73:422–425.
82. Blanchard, B. M., and R. R. Knight. 1991. [Movements of Yellowstone grizzly bears, 1975–87](#). *Biological Conservation* 58:41–67.
83. Mattson, D. J., B. M. Blanchard, and R. R. Knight. 1991. Food habits of Yellowstone grizzly bears. *Canadian Journal of Zoology* 69:1619–1629.
84. Mattson, D. J., C. M. Gillin, S. A. Benson, and R. R. Knight. 1991. Bear feeding activity at alpine insect aggregation sites in the Yellowstone ecosystem. *Canadian Journal of Zoology* 69:2430–2435.
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87. French, S., and M. French. 1990. Predatory behavior of grizzly bears feeding on elk calves in Yellowstone National Park, 1986–88. *International Conference on Bear Research and Management* 8:335–341.
88. Mattson, D. J. 1990. Human impacts on bear habitat use. *International Conference for Bear Research and Management* 8:33–56.
89. Picton, H. D., D. Palmisciano, and G. Nelson. 1990. Fluctuating asymmetry and testing isolation of Montana grizzly bear populations. *International Conference on Bear Research and Management* 8:421–424.
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94. Mattson, D. J., R. R. Knight, and B. M. Blanchard. 1987. The effects of developments and primary roads on grizzly bear habitat use in Yellowstone National Park, Wyoming. *International Conference for Bear Research and Management* 7:259–273.
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Peer-reviewed Book Chapters:

1. White, P. J., K. A. Gunther, and F. T. van Manen, editors. 2017. [Yellowstone grizzly bears: Ecology and conservation of an icon of wildness](#). Yellowstone Forever. 273pp.
2. White, P. J., K. A. Gunther, and F. T. van Manen. 2017. Introduction. Pages xv–xvii in P. J. White, K. A. Gunther, and F. T. van Manen, editors. [Yellowstone grizzly bears: Ecology and conservation of an icon of wildness](#). Yellowstone Forever. 273pp.
3. van Manen, F. T., and M. A. Haroldson. 2017. Reproduction, survival, and population growth. Pages 29–45 in P. J. White, K. A. Gunther, and F. T. van Manen, editors. [Yellowstone grizzly bears: Ecology and conservation of an icon of wildness](#). Yellowstone Forever. 273pp.
4. Bjornlie, D. D., and M. A. Haroldson. 2017. Movements and occupied range. Pages 63–73 in P. J. White, K. A. Gunther, and F. T. van Manen, editors. [Yellowstone grizzly bears: Ecology and conservation of an icon of wildness](#). Yellowstone Forever. 273pp.
5. van Manen, F. T., M. A. Haroldson, and K. A. Gunther. 2017. Ecological niche. Pages 75–89 in P. J. White, K. A. Gunther, and F. T. van Manen, editors. [Yellowstone grizzly bears: Ecology and conservation of an icon of wildness](#). Yellowstone Forever. 273pp.
6. Haroldson, M. A., P. L. Kamath, and F. T. van Manen. 2017. Genetics and adaptive capabilities. Pages 91–101 in P. J. White, K. A. Gunther, and F. T. van Manen, editors. [Yellowstone grizzly bears: Ecology and conservation of an icon of wildness](#). Yellowstone Forever. 273pp.
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