

Appendix D – Literature Cited

- Alexander, M.E., and M.G. Cruz. 2011. Crown fire dynamics in conifer forests. *Synthesis of Knowledge of Extreme Fire Behavior* 1:107-142
- Barrett, S.W., S.F. Arno, and C.H. Key. 1991. Fire regimes of western larch-lodgepole pine forests in Glacier National Park, Montana. *Canadian Journal of Forest Research* 21(12):1711-1720.
- Bigelow, S.W., M.P. North, and C.F. Salk. 2011. Using light to predict fuels-reduction and group-selection effects on succession in Sierran mixed-conifer forest. *Canadian Journal of Forest Research* 41:2051-2063
- Churchill, D.J.; Saeger, S.T.; Larson, A.J.; Schneider, E.E.; Kemp, K.B.; & Bienz, C. 2018. Ecological functions of spatial pattern in dry forests: implications for forest restoration. The Nature Conservancy, Oregon. 7 pp
- Contreras, M.A., R.A. Parsons, and W. Chung. 2012. Modeling tree-level fuel connectivity to evaluate the effectiveness of thinning treatments for reducing crown fire potential. *Forest Ecology and Management* 264:134-149.
- Copeland, J.P., Peek, J.M., Groves, C.R., Melquist, W.E., Mckelvey, K.S., McDaniel, G.W., Long, C.D., Harris, C.E., 2007. Seasonal habitat associations of the wolverine in central Idaho. *Journal of Wildlife Management*. 71, 2201– 2212.
- DNRC. 2020. Montana forest action plan. Montana Department of Natural Resources and Conservation, Forestry Division, Missoula, MT. 91pp
- DNRC. 2022. Montana forestry best management practices monitoring: 2022 forestry BMP field review report. Montana Department of Natural Resources and Conservation, Forestry Division, Missoula, MT. 53 pp
- Dusek, G.L., A.K. Wood, S. Hoekman, C.A. Sime, and J.T. Morgan. 2006. Ecology of white-tailed deer in the Salish mountains, northwest Montana. Final report, federal aid in wildlife restoration project W-120-R. Montana Fish, Wildlife and Parks, Helena.
- Fischer, W. C., and A. F. Bradley. 1987. Fire ecology of western Montana forest habitat types. USDA Forest Service, Intermountain Forest and Range Experiment Station, Research Paper, INT-223.
- Gilbertson-Day, J.W., K.C Vogler, J. Napoli, A. Brough, C.J. Moran, J.H. Scott. 2020. Montana Wildfire Risk Assessment: Methods and Results. Montana Department of Natural Resources and Conservation. 74pp
- Halofsky, Jessica E.; Peterson, David L.; Dante-Wood, S. Karen; Hoang, Linh; Ho, Joanne J.; Joyce, Linda A., eds. 2018. Climate change vulnerability and adaptation in the Northern Rocky Mountains. Gen. Tech. Rep. RMRS-GTR-374. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. Part 1. pp. 1–273.
- Inman, R. M., B. L. Brock, K. H. Inman, S. S. Sartorius, B. C. Aber, B. Giddings, S. L. Cain, M. L. Orme, J. A. Fredrick, B. J. Oakleaf, et al. 2013. Developing priorities for metapopulation conservation at the landscape scale: wolverines in the Western United States. *Biological Conservation* 166:276–286

- Inman, R.M., Mark L. Packila, Kristine H. Inman, Anthony J. Mccue, Gary C. White, Jens Persson, Bryan C. Aber, Mark L. Orme, Kurt L. Alt, Steven L. Cain, Jay A. Fredrick, Bob J. Oakleaf, Shawn S. Sartorius. 2012. Spatial ecology of wolverines at the southern periphery of distribution. *Journal of Wildlife Management* 76(4):778–792.
- IPCC, 2023: Sections. In: *Climate Change 2023: Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change* [Core Writing Team, H. Lee and J. Romero (eds.)]. IPCC, Geneva, Switzerland, pp. 35-115, doi: 10.59327/IPCC/AR6-9789291691647
- Kegley, S. 2004. Douglas-fir beetle management. Chapter 4.5. Forest insect and disease management guide for the northern and central Rocky Mountains. USDA Forest Service, Northern Region, State and Private Forestry. 10 pp
- Kennedy, M.C., and M.C. Johnson. 2014. Fuel treatment prescriptions alter spatial patterns of fire severity around wildland-urban interface during the Wallow Fire, Arizona, USA. *Forest Ecology and Management*. 318:122-132.
- Knapp, E.E., D.W. Schwilk, J.M. Kane, and J.E. Keeley. 2006. Role of burning season on initial understory vegetation response to prescribed fire in a mixed conifer forest. *Canadian Journal of Forest Research* 37:11-22.
- Krebs, J., E.C. Lofroth, and I. Parfitt. 2007. Multiscale habitat use by wolverines in British Columbia, Canada. *The Journal of Wildlife Management* 71:2180-2192.
- Kreider, Mark R., P.E. Higuera, S.A. Parks, W.L. Rice, N. White, and A.J. Larson. 2024. Fire suppression makes wildfires more severe and accentuates impacts of climate change and fuel accumulation. *Nature Communications*. 15, 2412 (2024). Retrieved from: <https://doi.org/10.1038/s41467-024-46702-0>
- Linn, R.R., C.H. Sieg, C.M. Hoffman, J.L. Winterkamp, and J.D. McMillin. 2013. Modeling wind fields and fire propagation following bark beetle outbreaks in spatially-heterogenous pinyon-juniper woodland fuel complexes. *Agricultural and Forest Meteorology* 173:139-153
- Lydersen, J.M., B.M. Collins, E.E. Knapp, G.B. Roller, and S. Stephens. 2015. Relating fuel loads to overstorey structure and composition in a fire-excluded Sierra Nevada mixed conifer forest. *International Journal of Wildland Fire* 24:484-494.
- May, R., Landa, A., van Dijk, J., Linnell, J.D., Andersen, R., 2006. Impact of infrastructure on habitat selection of wolverines *Gulo gulo*. *Wildl. Biol.* 12, 285–295.
- Miller, C., and D.L. Urban. 2000. Connectivity of forest fuels and surface fire regimes. *Landscape Ecology* 15:145-154.
- Montana Natural Heritage Program (MTNHP). 2024. Environmental Summary Report. For Latitude 48.18320 to 48.49571 and Longitude –114.33312 to –114.61397. Retrieved 4/10/2024.
- Montana Natural Heritage Program (MTNHP). 2017. Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest — Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest. Montana Field

Ray Kuhns WMA Forest Habitat Improvement and Fuels Reduction Project
Draft EA

- Guide. Montana Natural Heritage Program Retrieved on March 27, 2024, from: https://FieldGuide.mt.gov/displayES_Detail.aspx?ES=4232
- Montana's State Wildlife Action Plan (SWAP). 2015. Montana Fish, Wildlife and Parks, 1420 East Sixth Avenue, Helena, MT 59620. 441pp
- NWCG. 2004. Fireline handbook. National Wildfire Coordination Group. National Interagency Fire Center, Boise, ID. 436pp
- Parsons, R.A., R.R. Linn, F. Pimont, C. Hoffman, J. Sauer, J. Winterkamp, C.H. Sieg, and W.M. Jolly. 2017. Numerical investigation of aggregated fuel spatial pattern impacts on fire behavior. *Land* 6:43.
- Pfister, R. D., B. L. Kovalchik, S. F. Arno, and R. C. Presby. 1977. Forest habitat types of Montana. USDA For. Serv. Gen. Tech. Rep. INT-34, 174 p. Intermountain Forest & Range Experiment Station, Ogden, UT
- Ruediger, B., Claar, J., Mighton, S., Naney, B., Rinaldi, T., Wahl, F., Warren, N., Wenger, D., Williamson, A., Lewis, L. and Holt, B., 2000. Canada lynx conservation assessment and strategy. United States Fish and Wildlife: Staff Publications. 197. Retrieved from: <https://digitalcommons.unl.edu/usfwspubs/197>
- Safford, H.D., J.T. Stevens, K. Merriam, M.D. Meyer, and A.M Latimer. 2012. Fuel treatment effectiveness in California yellow pine and mixed conifer forests. *Forest Ecology and Management* 274:17-28.
- Sorenson, C. B., C. E. Keegan, T. A. Morgan, C. P. McIver, and M. J. Niccolucci. 2016. Employment and wage impacts of timber harvesting and processing in the United States. *Journal of Forestry* 114 (4): 485-493.
- Symons, J.N., D.H. Fairbanks, and C.N. Skinner. 2008. Influences of stand structure and fuel treatments on wildfire severity at Blacks Mountain Experimental Forest, northeastern California. *The California Geographer* 48: 61-83.
- The Nature Conservancy. 2024. Resilient land mapping tool V2.0.18. Retrieved from: <https://www.maps.tnc.org/resilientland/#/explore>
- USDA Forest Service. 2022. Insect & disease detection survey. USDA Forest Service, Northern Region, Missoula, MT. Retrieved from: <https://www.fs.usda.gov/foresthealth/applied-sciences/mapping-reporting/detection-surveys.shtml>
- Vose, J.M., et al. 2018. Ch. 6: Forests. In: *Impacts, risks, and adaptation in the United States: Fourth national climate assessment, volume II*. U.S. Global Change Research Program, Washington, DC, p. 243.
- Vuke, S.M., 2015. Geologic Road Map of Montana: Montana Bureau of Mines and Geology Geologic Map 65, scale 1:1,000,000. Retrieved from: <https://www.mbm.g.mtech.edu/Information/StoryMaps/GeologicMaps.asp#gsc.tab=0>
- Wade, A. A., Ballantyne, A. P., Larson, A. J., & Jolly, W. M. 2017. Chapter 04: Forests and climate change in Montana in: Montana Climate Assessment. Bozeman and Missoula MT: Montana State

Ray Kuhns WMA Forest Habitat Improvement and Fuels Reduction Project
Draft EA

University and University of Montana, Montana Institute on Ecosystems. 318 p.
doi:10.15788/m2ww8w.

Weatherby, J.C. and R.W. Their. 1993. A preliminary validation of a Douglas-fir beetle hazard rating system. Mountain Home Ranger District, Boise National Forest, 1992. USDA Forest Service, Intermountain Region, Boise, ID. Forest Pest Management Report, R4-93-05. 7 pp

Ziegler, J.P., C. Hoffman, M. Battaglia, and W. Mell. 2017. Spatially explicit measurements of forest structure and fire behavior following restoration treatments in dry forests. *Forest Ecology and Management* 386:1-12.