

# Links to References for Heavy Equipment in WLPZs White Paper

- Agee, J. K., & Skinner, C. N. (2005). [Basic principles of forest fuel reduction treatments](https://doi.org/10.1016/j.foreco.2005.01.034). *Forest Ecology and Management*, 211(1–2), 83–96. <https://doi.org/10.1016/j.foreco.2005.01.034>
- Akay, A. E., Yilmaz, M., & Tonguc, F. (2006). [Impact of Mechanized Harvesting Machines on Forest Ecosystem: Residual Stand Damage](https://doi.org/10.1016/j.applsci.2006.11.001). *Journal of Applied Sciences*, 6(11), 2414–2419. <https://doi.org/10.1016/j.applsci.2006.11.001>
- Bolding, C., Lanford, B., & Kellogg, L. D. (2003). [Forest fuel reduction: current methods and future possibilities](https://www.srs.fs.usda.gov/pubs/ja/ja_bolding002.pdf). Proceedings of the 2003 Council on Forest Engineering, 5–10. Retrieved from [https://www.srs.fs.usda.gov/pubs/ja/ja\\_bolding002.pdf](https://www.srs.fs.usda.gov/pubs/ja/ja_bolding002.pdf)
- Braithwaite, N. T., & Mallik, A. U. (2012). [Edge effects of wildfire and riparian buffers along boreal forest streams](https://doi.org/10.1111/j.1365-2664.2011.02076.x). *Journal of Applied Ecology*, 49(1), 192–201. <https://doi.org/10.1111/j.1365-2664.2011.02076.x>
- Broadmeadow, S., & Nisbet, T. R. (2004). [The Effects of Riparian Forest Management on the Freshwater Environment: A Literature Review of the Best Management Practice](https://doi.org/10.5194/hess-8-286-2004). *Hydrology and Earth System Sciences Discussions, European Geosciences Union*, 8(3), 286–305. <https://doi.org/10.5194/hess-8-286-2004>
- Burns, J. W. (1972). [Some Effects of Logging and Associated Road Construction on Northern California Streams](https://www.fs.fed.us/psw/publications/4351/Burns72.pdf). *Transactions of the American Fisheries Society*, 101(1). Retrieved from <https://www.fs.fed.us/psw/publications/4351/Burns72.pdf>
- Cafferata, P., Berbach, M., Burke, J., Hendrix, J., Klamt, B., Macedo, R., ... Wright-Shacklett, C. (2005). [Flood Prone Area Considerations in the Coast Redwood Zone](https://doi.org/10.13140/2.1.2414.6721). <https://doi.org/10.13140/2.1.2414.6721>
- Christopherson, J. (University of N. C. E. (1992). [Forest Thinning and Defensible Space](https://www.unce.unr.edu/publications/files/nr/other/fs9255.pdf). Retrieved from <https://www.unce.unr.edu/publications/files/nr/other/fs9255.pdf>
- Contreras, M. A., Parrott, D. L., & Chung, W. (2015). [Designing Skid-Trail Networks to Reduce Skidding Cost and Soil Disturbance for Ground-Based Timber Harvesting Operations](https://doi.org/10.1093/forestscience/62.1.48). *Forest Science*, 62(1), 48–58. <https://doi.org/10.1093/forestscience/62.1.48>
- Dahlgren, R. A. (1998). [Effects of Forest Harvest on Stream-water Quality and Nitrogen Cycling in the Caspar Creek Watershed](https://doi.org/10.1016/j.watres.1998.03.011), 45–53. <https://doi.org/10.1016/j.watres.1998.03.011>
- Dahm, C. N., Candelaria-Ley, R. I., Reale, C. S., Reale, J. K., & Van Horn, D. J. (2015). [Extreme water quality degradation following a catastrophic forest fire](https://doi.org/10.1111/fwb.12548). *Freshwater Biology*, 60(12), 2584–2599. <https://doi.org/10.1111/fwb.12548>
- Davies, P. E., & Nelson, M. (1994). [Relationships between riparian buffer widths and the effects of logging on stream habitat, invertebrate community composition and fish abundance](https://doi.org/10.1071/MF9941289). *Marine and Freshwater Research*, 45(7), 1289–1309. <https://doi.org/10.1071/MF9941289>

- Dhakal, A. S., & Sidle, R. C. (2003). [Long-term modelling of landslides for different forest management practices](#). *Earth Surface Processes and Landforms*, 28(8), 853–868. <https://doi.org/10.1002/esp.499>
- Dwire, K. A., Meyer, K. E., Riegel, G., & Burton, T. (2016). [Riparian fuel treatments in the western USA: Challenges and considerations](#). *Gen. Tech. Rep., RMRS-GTR-3*(September). Retrieved from [https://www.fs.fed.us/rm/pubs/rmrs\\_gtr352.pdf](https://www.fs.fed.us/rm/pubs/rmrs_gtr352.pdf)
- Ernest, R. (2006). [Anuran Communities on the Cutting Edge: Analysing Patterns and Processes in Anthropogenically Altered Tropical Forests](#). Retrieved from [https://opus.bibliothek.uni-wuerzburg.de/opus4-wuerzburg/frontdoor/deliver/index/docId/1596/file/Ernst\\_2006\\_Diss.pdf#page=158](https://opus.bibliothek.uni-wuerzburg.de/opus4-wuerzburg/frontdoor/deliver/index/docId/1596/file/Ernst_2006_Diss.pdf#page=158)
- Feller, M. C., Lehmann, R., & Olanski, P. (2000). [Influence of Forest Harvesting Intensity on Nutrient Leaching Through Soil in Southwestern British Columbia](#). In A. K. Mitchell, P. Puttonen, M. Stoehr, & B. R. Hawkins (Eds.), *Frontiers of Forest Biology: Proceedings of the 1998 Joint Meeting of the North American Forest Biology Workshop and the Western Forest Genetics Association* (pp. 69–75).
- Ferry Slik, J. W., Verburg, R. W., & Keblor, P. J. A. (2002). [Effects of Fire and Selective Logging on the Tree Species Composition of Lowland Dipterocarp Forest in East Kalimantan, Indonesia](#). *Biodiversity and Conservation*, 11, 85–98. <https://doi.org/10.1023/A>
- Fredericksen, N. J., & Fredericksen, T. S. (2004). [Impacts of Selective Logging on Amphibians in a bolivian Tropical Humid Forest](#). *Forest Ecology and Management*, (191), 275–282.
- Froehlich, H. A., & McNabb, D. H. (1983). [Soil Compaction in Pacific Northwest Forests](#). In *Sixth North American Forest Soils Conference on Forest Soils and Treatment Impacts*.
- Fuchs, S. A., Hinch, S. G., & Mellina, E. (2003). [Effects of Streamside Logging on Stream Macroinvertebrate Communities and Habitat in the Sub-Boreal Forests of British Columbia, Canada](#). *Canadian Journal of Forest Research*, 33, 1408–1415. Retrieved from <http://faculty.forestry.ubc.ca/hinch/Fuchs et al., 2003.pdf>
- Grigal, D. F. (2000). [Effects of extensive forest management on soil productivity](#). *Forest Ecology and Management*, 138(1–3), 167–185. [https://doi.org/10.1016/S0378-1127\(00\)00395-9](https://doi.org/10.1016/S0378-1127(00)00395-9)
- Hall, J. S., Harris, D. J., Medjibe, V., & Ashton, P. M. S. (2003). [The effects of selective logging on forest structure and tree species composition in a Central African forest: Implications for management of conservation areas](#). *Forest Ecology and Management*, 183(1–3), 249–264. [https://doi.org/10.1016/S0378-1127\(03\)00107-5](https://doi.org/10.1016/S0378-1127(03)00107-5)
- Han, H.-S., & Kellogg, L. D. (2000). [Damage characteristics in young Douglas-Fir stands from commercial thinning with four timber harvesting systems](#). *Western Journal of Applied Forestry*, 15(1), 27–33. Retrieved from <http://www.ingentaconnect.com/content/saf/wjaf/2000/00000015/00000001/art00007>
- Ice, G. G., Neary, D. G., & Adams, P. W. (2004). [Effects of Wildfire on Soils and Watershed Processes](#). *Journal of Forestry*, 102(6), 16–20. Retrieved from <http://www.ingentaconnect.com/content/saf/jof/2004/00000102/00000006/art00004>

- Jurgensen, M. F., Harvey, A. E., Graham, R. T., Tonn, J. R., Larsen, M. J., & Jain, T. B. (1997). [Impacts of Time Harvest on Soil Organic Matter, N, Productivity, and Health of Inland Northwest Forests](#). *Forest Science*, 43(2), 234–351.
- Kaylor, M. J., Warren, D. R., & Kiffney, P. M. (2016). [Long-term effects of riparian forest harvest on light in Pacific Northwest \(USA\) streams](#). *Freshwater Science*, 36(1), 1–13. <https://doi.org/10.1086/690624>
- Kilgore, B. M., & Taylor, D. (1979). [Fire History of a Sequoia-Mixed Conifer Forest](#). *Ecology*, 60(1), 129–142. Retrieved from <https://esajournals.onlinelibrary.wiley.com/doi/abs/10.2307/1936475>
- Kreutzweiser, D. P., & Capell, S. S. (2002). [Fine sediment deposition in streams after selective forest harvesting without riparian buffers](#). *Canadian Journal of Forest Research*, 32(6), 1108. <https://doi.org/10.1139/x02-086>
- Kreutzweiser, D. P., Capell, S. S., & Good, K. P. (2005). [Macroinvertebrate community responses to selection logging in riparian and upland areas of headwater catchments in a northern hardwood forest](#). *Journal of the North American Benthological Society*, 24(1), 208–222. [https://doi.org/10.1899/0887-3593\(2005\)024<0208:mcrtsl>2.0.co;2](https://doi.org/10.1899/0887-3593(2005)024<0208:mcrtsl>2.0.co;2)
- Ledoux, C. B., & Martin, D. K. (2013). [Proposed BMPs for Invasive Plant Mitigation during Timber Harvesting Operations](#), 1–12. Retrieved from [https://www.nrs.fs.fed.us/pubs/gtr/gtr\\_nrs118.pdf](https://www.nrs.fs.fed.us/pubs/gtr/gtr_nrs118.pdf)
- Lewis, J. (1998). [Evaluating the Impacts of Logging Activities on Erosion and Suspended Sediment Transport in the Caspar Creek Watersheds](#). *Proceedings of the Conference on Coastal Watersheds: The Caspar Creek Story*, (Lisle 1989), 55–69. Retrieved from <https://www.fs.fed.us/psw/publications/documents/gtr-168/07lewis.pdf>
- Limbeck-lilienau, B. (2003). [Residual Stand Damage Caused by Mechanised Harvesting Systems](#). *The Austro 2003 Meeting: High Tech Forest Operations for Mountainous Terrain. October 5-9*, 1–11. Retrieved from [http://www.formec.org/images/proceedings/2003/31\\_limbeck.pdf](http://www.formec.org/images/proceedings/2003/31_limbeck.pdf)
- Mattson, J. A., Baumgras, J. E., Blinn, C. R., & Thompson, M. A. (n.d.). [Harvesting Options for Riparian Areas](#). In E. S. Verry, J. W. Hornbeck, & C. A. Dolloff (Eds.), *Riparian Management in Forests of the Continental Eastern United States*. Lewis Publishers.
- McCashion, J. D., & Rice, R. M. (1983). [Erosion on logging roads in northwestern California: how much is avoidable?](#) *Journal of Forestry*, 81(1), 22–26. Retrieved from <file:///C:/Documents and Settings/leung/My Documents/literature/O/O18303 McCashion&Rice.pdf>
- Messier, M. S., Shatford, J. P. A., & Hibbs, D. E. (2012). [Fire Exclusion Effects on Riparian Forest Dynamics in Southwestern Oregon](#). *Forest Ecology and Management*, 264, 60–71. Retrieved from <https://www.sciencedirect.com/science/article/pii/S0378112711006050>
- Moore, R. D., Spittlehouse, D. L., & Story, A. (2005). [Riparian Microclimate and Stream Temperature Response to Forest Harvesting: A Review](#). *Journal of the American Water Resources Association*, 813–834. Retrieved from

[https://www.sierraforestlegacy.org/Resources/Conservation/FireForestEcology/Threatened Habitats/Riparian/AquaticRiparina-Moore05.pdf](https://www.sierraforestlegacy.org/Resources/Conservation/FireForestEcology/ThreatenedHabitats/Riparian/AquaticRiparina-Moore05.pdf)

- Nitschke, C. R. (2005). [Does forest harvesting emulate fire disturbance? A comparison of effects on selected attributes in coniferous-dominated headwater systems](#). *Forest Ecology and Management*, 214(1–3), 305–319. <https://doi.org/10.1016/j.foreco.2005.04.015>
- North, M. (2012). [Riparian Zones Pose Severe Wildfire Threat](#). *California Forests*, (Spring), 10–11. Retrieved from <https://northlab.faculty.ucdavis.edu/wp-content/uploads/sites/195/2016/11/Riparian-zone-severe-wildfire-California-Forests-1.pdf>
- Pettit, N. E., & Naiman, R. J. (2007). [Fire in the Riparian Zone: Characteristics and Ecological Consequences](#). *Ecosystems*, 10(5), 673–687. Retrieved from [https://www.jstor.org/stable/27823712?seq=1#page\\_scan\\_tab\\_contents](https://www.jstor.org/stable/27823712?seq=1#page_scan_tab_contents)
- Poff, B., Koestner, K. A., Neary, D. G., & Henderson, V. (2011). [Threats to riparian ecosystems in Western North America: An analysis of existing literature](#). *Journal of the American Water Resources Association*, 47(6), 1241–1254. <https://doi.org/10.1111/j.1752-1688.2011.00571.x>
- Poff, R. J. (1996). [Silvicultural Practices and Wildfire on Productivity of Forest Soils](#). In *Sierra Nevada Ecosystem Project: Final Report to Congress, Vol. II, Assessments and Scientific Basis for Management Options* (Vol. II, pp. 477–494). Davis, California: University of California Centers for Water and Wildland Resources. Retrieved from [http://www.orww.org/Wildfires/References/Forest\\_Soils/Poff\\_1996.pdf](http://www.orww.org/Wildfires/References/Forest_Soils/Poff_1996.pdf)
- Pottier, J. (2002). [Temporal Patterns in Aquatic and Avian Communities Following Selective Logging in the Upper Great Lakes Region](#). *Forest Science*, 48(2), 339–349. <https://doi.org/10.1017/cbo9780511491092.002>
- Resources, W. D. of N. (2003). [Wisconsin forest management guidelines. Wisconsin Forest Management Guidelines, Riparian Areas and Wetlands](#). Retrieved from <https://www.nrs.fs.fed.us/fmg/nfmg/docs/wi/chapter5.pdf>
- Resources, W. D. of N. (2010). [Intermediate Treatments. In Silviculture Handbook](#). Retrieved from <https://dnr.wi.gov/topic/ForestManagement/documents/24315/23.pdf>
- Rice, R. M., Rothacher, J. S., & Megahan, W. F. (1972). [Erosional consequences of timber harvesting: An appraisal](#). *Proceedings National Symposium on Watersheds in Transition. American Water Resources Association, Ft. Collins, Colorado, June 1972*, 321–329. Retrieved from <https://www.fs.fed.us/psw/publications/rice/Rice72.pdf>
- Rone, G. (2011). [Summary of Soil Monitoring on the IPNF](#).
- Saiful, I., & Latiff, A. (2014). [Effects of Selective Logging on Tree Species Composition](#). *Journal of Tropical Forest Science*, 26(2), 188–202.
- Sidle, R. C., Sasaki, S., Otsuki, M., Noguchi, S., & Abdul Rahim, N. (2004). [Sediment pathways in a tropical forest: Effects of logging roads and skid trails](#). *Hydrological Processes*, 18(4), 703–720. <https://doi.org/10.1002/hyp.1364>
- Stone, C., Hudak, A., & Morgan, P. (2004). Proceedings of the Second International Symposium

- on Fire Economics, Planning, and Policy: A Global View and Policy: A Global View [Forest Harvest Can Increase Subsequent Forest Fire Severity](#) 1, 525–534. Retrieved from <http://www.fireplan.gov/content/home/>
- Swanson, F. J., Benda, L. E., Duncan, S. H., Grant, G. E., Megahan, W. F., Reid, L. M., & Ziemer, R. R. (1987). [Mass Failures and Other Processes of Sediment Production in Pacific Northwest Forest Landscapes](#). In *Streamside Management: Forestry and Fishery Interactions* (pp. 9–38). Retrieved from [http://www.geo.oregonstate.edu/classes/geo582/week\\_3\\_2/Swansonetal1987.pdf](http://www.geo.oregonstate.edu/classes/geo582/week_3_2/Swansonetal1987.pdf)
- van de Water, K., & North, M. (2010). [Fire History of Coniferous Riparian Forests in the Sierra Nevada](#). *Forest Ecology and Management*, 260(3), 384–395. Retrieved from <https://www.sciencedirect.com/science/article/pii/S0378112710002367>
- van de Water, K., & North, M. (2011). [Stand Structure, Fuel Loads, and Fire Behavior in Riparian and Upland Forests, Sierra Nevada Mountains, USA; A Comparison of Current and Reconstructed Conditions](#). *Forest Ecology and Management*, 262(2), 215–228. Retrieved from <https://www.sciencedirect.com/science/article/pii/S0378112711001691>
- van Mantgem, P. J., Nesmith, J. C. B., Keifer, M., Knapp, E. E., Flint, A., & Flint, L. (2013). [Climatic stress increases forest fire severity across the western United States](#). *Ecology Letters*, 16(9), 1151–1156. <https://doi.org/10.1111/ele.12151>
- van Mantgem, P. J., Stephenson, N. L., Byrne, J. C., Daniels, L. D., Franklin, J. F., Fulé, P. Z., ... Veblen, T. T. (2009). [Widespread increase of tree mortality rates in the Western United States](#). *Science*, 323(5913), 521–524. <https://doi.org/10.1126/science.1165000>
- Warren, D. R., Keeton, W. S., Kiffney, P. M., Kaylor, M. J., Bechtold, H. A., & Magee, J. (2016). [Changing forests-changing streams: Riparian forest stand development and ecosystem function in temperate headwaters](#). *Ecosphere*, 7(8), 1–19. <https://doi.org/10.1002/ecs2.1435>
- York, R. A., Battles, J. J., Wenk, R. C., & Saah, D. (2012). [A gap-based approach for regenerating pine species and reducing surface fuels in multi-aged mixed conifer stands in the Sierra Nevada, California](#). *Forestry*, 85(2), 203–213. <https://doi.org/10.1093/forestry/cpr058>
- York, R. 2019. [PowerPoint presentation to the BOF's Effectiveness Monitoring Committee \(EMC\) titled Testing Fuel Treatment Alternatives in Riparian Forests](#), March 19, 2019. Sacramento, CA.