

Prescribed and Wildfire

- Amaranthus, M., H. Jubas and D. Arthur. 1989. Stream shading, summer streamflow and maximum water temperature following intense wildfire in headwater streams. In Berg, N.H. (Tech. Co-ord.) *Proceedings of the Symposium on Fire and Watershed Management, 1988*. USDA Forest Service. Pacific Southwest Forest and Range Management Station. General Technical Report PSW-109. Berkeley, California.
- Baker, M.B. Jr. 1990. *Hydrological and Water Quality Effects of Fire*. USDA Forest Service. Rocky Mountain Forest and Range Experiment Station. General Technical Report GTR-RM-191, Fort Collins, Colorado. 31-42.
- Benavides-Solorio, J., and L. MacDonald. 2001. Post-fire runoff and erosion from simulated rainfall on small plots, Colorado Front Range. *Hydro Proc* 15: 2931-2952.
- Berg, N.H. 1989. *Proceedings of the Symposium on Fire and Watershed Management, 1988 Oct. 26-28*. USDA Forest Service Pacific Southwest Forest and Range Experiment Station. General Technical Report PSW-109. Berkeley, California.
- Beschta, R.L. 1990. Effects of fire on water quantity and quality. Chapter 17, pgs. 219-232 In Walstad, J.D., S.R. Radosevich and D.V. Sandberg (eds) *Natural and Prescribed Fire in Pacific Northwest Forests*. Oregon State University Press.
- Blais, J.M., R.L. France, L.E. Kimpe and R.J. Cornett. 1998. Climatic changes in northwestern Ontario have had a greater effect on erosion and sediment accumulation than logging and fire: evidence from 210Pb chronology in lake sediments. *Biogeochemistry* 43: 235-252.
- Brown, G.W., A.R. Gahker and R.B. Marston. 1973. Nutrient losses after Clear-cut logging and slash burning in the Oregon Coast Range. *Water Resources Research*. 9(5): 1450-1453.
- Brown, J.K. 1989. Effects of fire on aquatic systems. *Wild Trout IV Symposium, Yellowstone National Park*. Mammoth, Wyo., Sept. 18-19, 1989.
- Buchanan, R.J. 1973. *Water Quality Impact of a Forest Fire, Considerations in the Design of a Research Programme at Salmon Arm*. Victoria, BC: Water Rights Branch 10 pp.
- Carignan, R., P. D'Arcy and S. Lamontagne. 2000. Comparative impacts of fire and forest harvesting on water quality in boreal shield lakes. *Can. J. Fish. Aquat. Sci.* 57 (2) 105-117.
- Cavanagh, N., T. McDaniels, L. Axelrod, and P. Slovic. 2000. Perceived ecological risks to water environments from selected forest industry activities. *Forest Science* 46: 344-355.
- Chorover, J., P. Vitousek, D. Everson, A. Esperanza, and D. Turner. 1994. Solution chemistry profiles of mixed-conifer forests before and after fire. *Biogeochemistry* 26: 115-144.
- Debyle, N.V. 1976. Fire, logging, and debris disposal effects on soil and water in northern coniferous forests. *International Union of Forest Research Organizations, Div. 1, Proceedings XVI IUFRO World Congr.* Oslo, Norway. 201-212.
- Dissmeyer, G., ed. 2000. *Drinking Water from Forests and Grasslands: a synthesis of the scientific literature*. USDA Forest Service, Asheville, North Carolina.
- Ewing, R. 1996. Postfire suspended sediment from Yellowstone National Park, Wyoming. *Water Resources Bulletin* 32: 605-627.
- Feller, M.C. 1981. Effects of clearcutting and slash burning on stream temperature in Southwestern British Columbia. *Water Resources Bulletin*. 17(5): 863-867.
- Feller, M.C. 1982. *The Ecological Effects of Slash Burning with Particular Reference to British Columbia: A Literature Review*. Land Management Report No 13. B.C. Ministry of Forests.



- Fredriksen, R.L. 1971. Comparative chemical water quality - natural and disturbed streams following logging and slash burning. pgs 125-137. In J.T. Krygier and J.D. Hall (eds) *Proceedings of a Symposium, Forest Land Uses and Steam Environment*, Oct. 19-21, 1970, Oregon State University. Corvallis, OR.
- Gaikowski, M., S. Hamilton, K. Buhl, S. McDonald, and C. Summers. 1996. Acute toxicity of three fire-retardant and two fire-suppressant foam formulations to the early life stages of rainbow trout (*Oncorhynchus mykiss*). *Environmental Toxicology and Chemistry* 15: 1365-1375.
- Gluns, D., and D. Toews. 1989. Effect of a major wildfire on water quality in southeastern British Columbia. Pages 487-499 in W. Woessner and D. Potts, eds. *Headwaters Hydrology*. American Water Resources Association, Missoula, Montana.
- Gresswell, R. 1999. Fire and aquatic ecosystems in forested biomes of North America. *Transactions of the American Fisheries Society* 128: 193-221.
- Grier, C.C. 1975. Wildfire effects on nutrient distribution and leaching in a coniferous ecosystem. *Can. J. For. Res.* 5: 599-607.
- Hauer, F., and C. Spencer. 1998. Phosphorous and nitrogen dynamics in streams associated with wildfire: A study of immediate and long-term effects. *International Journal of Wildland Fire* 8: 183-198.
- Helvey, J. 1980. Effects of a north central Washington wildfire on runoff and sediment production. *Water Resources Bulletin* 16: 627-634.
- Helvey, J., A. Tiedmann, and T. Anderson. 1985. Plant nutrient loss by soil erosion and mass movement after wildfire. *Journal of Soil and Water Conservation* Jan-Feb: 168-183.
- Howell, P. 2001. Effects of disturbance and management of forest health on fish and fish habitat in eastern Oregon and Washington. *Northwest Science* 75: 157-165.
- Kimmins, J.P. and M.C. Feller. 1976. Effect of Clearcutting and Broadcast Slashburning on Nutrient Budgets, Stream Water Chemistry and Productivity In Western Canada. *Proceedings 16th IUFRO World Congress, Division I* 186-197.
- Lamontagne, S., R. Carignan, P. D'Arcy, Y.T. Prairie and D. Paré. 2000. Element export in runoff from eastern Canadian Boreal Shield drainage basins following forest harvesting and wildfires. *Can. J. Fish. Aquat. Sci.* 57(2): 118-128.
- Landsberg, J., and A. Tiedmann. 2000. Fire Management (Ch. 12). Pages 124-138 in G. Dissmeyer, ed. *Drinking Water from Forests and Grasslands: A Synthesis of the Scientific Literature*. USDA Forest Service, Southern Research Station, Asheville, NC.
- Levano, A. and J. Rothacher. 1969. *Increases In Maximum Stream Temperature After Slash Burning In A Small Experimental Watershed*. Res. Note PNW-110. USDA, Forest Service Pacific Northwest Experimental Station. Portland, OR.
- McDonald, S., S. Hamilton, K. Buhl, and J. Heisinger. 1996. Acute toxicity of fire control chemicals to *Daphnia magna* (Straus) and *Selenastrum capricornutum* (Printz). *Ecotoxicology and Environmental Safety* 33: 62-72.
- McDonald, S., S. Hamilton, K. Buhl, and J. Heisinger. 1997. Acute toxicity of fire-retardant and foam-suppressant chemicals to *Hyalella azteca* (Saussure). *Environmental Toxicology and Chemistry* 16: 1370-1376.
- McEachern, P., E.E. Prepas, J.J. Gibson, and W.P. Dinsmore. 2000. Forest fire induced impacts on phosphorus, nitrogen, and chlorophyll *a* concentrations in boreal subarctic lakes of Northern Alberta. *Can J. Fish Aquat Sci.* 57(2): 73-81.



- McIver, J., and L. Starr. 2000. Environmental effects of postfire logging: Literature review and annotated bibliography. Pages 80. USDA Forest Service, Pacific Northwest Research Station, Portland, OR.
- McRae, D., L. Duchesne, B. Freedman, T. Lynham, and S. Woodley. 2001. Comparisons between wildfire and forest harvesting and their implications in forest management. *Environmental Reviews* 9: 223-260.
- Megahan, W., M. Wilson, and S. Monsen. 2001. Sediment production from granitic cutslopes on forest roads in Idaho, USA. *Earth Surface Processes and Landforms* 26: 153-163.
- Megahan, W.F. and D.C. Molitor. 1975. Erosional effects of wildfire and logging in Idaho. in *Irrig. Proc. and Drainage*. Amer. Soc. Civil Eng 423-44.
- Meyer, G., J. Pierce, S. Wood, and A. Jull. 2001. Fire, storms, and erosional events in the Idaho batholith. *Hydro Proc* 15: 3025-3038.
- Meyer, V., E. Redente, K. Barbarick, and R. Brobst. 2001. Biosolids applications affect runoff water quality following forest fire. *Journal of Environmental Quality* 30: 1528-1532.
- Minshall, G., C. Robinson, and D. Lawrence. 1997. Postfire responses of lotic ecosystems in Yellowstone National Park, USA. *Canadian Journal of Fisheries and Aquatic Sciences* 54: 2509-2525.
- Minshall, G., C. Robinson, D. Lawrence, D. Andrews, and J. Brock. 2001. Benthic macroinvertebrate assemblages in five central Idaho (USA) streams over a 10-year period following disturbance by wildfire. *International Journal of Wildland Fire* 10: 201-213.
- Minshall, G., J. Brock, and J. Varley. 1989. Wildfires and Yellowstone's stream ecosystems. *BioScience* 39: 707-715.
- Minshall, G., J. Brock, D. Andrews, and C. Robinson. 2001. Water quality, substratum and biotic responses of five central Idaho (USA) streams during the first year following the Mortar Creek fire. *International Journal of Wildland Fire* 10: 185-199.
- Moody, J., and D. Martin. 2001. Initial hydrologic and geomorphic responses following a wildfire in the Colorado Front Range. *Earth Surface Processes and Landforms* 26: 1049-1070.
- Moore, D., and L. Norris. 1979. Forest chemicals in watershed management. Pages 261-268 in P. Heilman, H. Anderson, and D. Baumgartner, eds. *Forest Soils of the Douglas-fir Region*. Washington State University, Pullman, WA.
- Morris, S., and T. Moses. 1987. Forest fire and the natural soil erosion regime in the Colorado Front Range. *Annals of the Association of American Geographers* 77: 245-254.
- Nakamura, F., F. Swanson, and S. Wondzell. 2000. Disturbance regimes of stream and riparian systems - a disturbance-cascade perspective. *Hydrological Processes* 14: 2849-2860.
- NCASI. 1994. Forests as nonpoint sources of pollution and effectiveness of best management practices. Pages 63. National Council for Air and Stream Improvement, New York, NY.
- Norris, L., H. Lorz, and S. Gergory. 1991. Forest Chemicals. Pages 207-296 in W. Meehan, ed. *Influences of Forest and Rangeland Management on Salmonid Fishes*. American Fisheries Society, Baltimore, MD.
- Packer, P.E. 1965. Forest treatment effects on water quality. *Presented at International Symposium on Forest Hydrology, Aug. 29-Sept. 10, 1965*, Pennsylvania State Univ., Penn.
- Paterson, A.M., B.F. Cumming, J.P. Smol, J.M. Blais and R.L. France. 1998. Assessment of the effects of logging, forest fires and drought on lakes in northwestern Ontario: a 30-year paleolimnological perspective. *Can. J. For. Res.* 28(10): 1546-1556.



- Richter, D., C.W. Ralston and W.R. Harms. 1982. Prescribed fire: effects on water quality and forest nutrient cycling. *Science* 215: 661-663.
- Roberts, R., and M. Church. 1986. The sediment budget in severely disturbed watershed, Queen Charlotte Ranges, British Columbia. *Canadian Journal of Forest Research* 16: 1092-1106.
- Robichaud, P., J. Beyers, and D. Neary. 2000. Evaluating the effectiveness of postfire rehabilitation treatments. Pages 85. USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO.
- Schmoltdt, D., D. Peterson, R. Keane, J. Lenihan, D. McKenzie, D. Weise, and D. Sandberg. 1999. Assessing the effects of fire disturbance on ecosystems: A scientific agenda for research and management. Pages 112. USDA Forest Service, Pacific Northwest Research Station, Portland, OR.
- Snyder, G.G., H.F. Haupt and G.H. Belt, Jr. 1975. *Clearcutting and Burning Slash Alter Quality of Streamwater In Northern Idaho*. USDA For. Serv. Res. Pap. INT-168.
- Spencer, C., and F. Hauer. 1991. Phosphorous and nitrogen dynamics in streams during a wildfire. *Journal of the North American Benthological Society* 10: 24-30.
- Stednick, J.D., L.N. Tripp and R.J. McDonald. 1982. Slash burning effects on soil and water chemistry in Southeastern Alaska. *Journal of Soil and Water Conservation*. 37(2): 126-128.
- Tiedemann, A.R., C.E. Conrad, J.H. Dieterich, J.W. Hornbeck, W.F. Megahan, L.A. Viereck and D.D. Wade. 1979. Effects of fire on water. *National Fire Effects Workshop*. April 10-14, 1978. Denver, CO. USDA For. Serv. Gen. Tech. Rep. WO-10. 28 pp.
- Tiedemann, A.R., J.D. Helvey and T.D. Anderson. 1978. Stream chemistry and watershed nutrient economy following wildfire and fertilization in Eastern Washington. *Journal of Environmental Quality* 7(4): 580-588.
- Toews, D.A.A. 1983. *An Assessment of the Potential Hydrological Impacts of Prescribed Burning in Maguire and Raymond Creek Watersheds Near Grassmere*. Unpublished Report. B.C. Ministry of Forests, Nelson Forest Region.
- Wondzell, S. 2001. The influence of forest health and protection treatments on erosion and stream sedimentation in forested watersheds of eastern Oregon and Washington. *Northwest Science* 75: 128-140.

