

Toxins, Pollution, Pesticides

- Anderson, K., and E. Johnson. 2001. Bioavailable organochlorine pesticides in a semi-arid region of Eastern Oregon, USA, as determined by gas chromatography with electron-capture detection. *Journal of AOAC International* 84: 1371-1382.
- B.C. Ministry of Environment, Lands and Parks. 1998a. *Tackling Non-Point Source Water Pollution - An Action Plan*. Water Management Branch. Ministry of Environment, Lands and Parks. Victoria, B.C.
- Binkley, D. and L. MacDonald. 1993. *Forests As Non-Point Sources of Pollution, and Effectiveness of Best Management Practices*. Tech. Bull. New York. National Council for Air and Stream Improvement.
- Binkley, D. and T.C. Brown. 1993b. Forest practices as nonpoint sources of pollution in North America. *Water Resources Bulletin*. 29(5): 729-740.
- Brewer, R., S. Sylvestre, M. Sekala, and T. Tuominen. 1999. Sediment quality in the Fraser River basin. Pages 93-107 in C. Gray and T. Tuominen, eds. *Health of the Fraser River Aquatic Ecosystem*. Environment Canada, Vancouver.
- Brown, T.C., D. Brown and D. Binkley. 1993. Laws and programs for controlling non-point source pollution in forested areas. *Water Resources Bulletin*. 29(1): 1-13.
- Bush, P.B., M.A. Grant and D.G. Neary. 1986. Water quality of ephemeral forest streams after site preparation with the herbicide Hexazinone. *Forest Ecology and Management* 14(1) pg. 23.
- 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.
- Daniel, T.C., R.C. Wendt, P.E. McGuire and D. Stoffel. 1982. Nonpoint source loading rates from selected land uses. *Water Resources Bulletin*. 18(1): 117-120.
- Davis, E.A., P.A. Ingebo and C.P. Pase. 1968. *Effect of A Watershed Treatment With Picloram on Water Quality*. Rocky Mtn. For. and Range Exp. Stn., US For. Serv Res Note RM-100. Fort Collins, CO. 4 pp.
- Driscoll, C., N. Johnson, G. Likens, and M. Feller. 1988. Effects of acidic deposition on the chemistry of headwater streams: A comparison between Hubbard Brook, New Hampshire, and Jamieson Creek, British Columbia. *Water Resources Research* 24: 195-200.
- Elliot, W. 2000. Roads and Other Corridors (Ch. 9). Pages 85-101 in G. Dissmeyer, ed. *Drinking Water from Forests and Grasslands: A Synthesis of the Scientific Literature*. USDA Forest Service, Southern Research Station, Asheville, NC.
- Feller, M.C. 1989. Effects of Forest Herbicide Applications on Streamwater Chemistry In Southwestern British Columbia. *Water Resources Bulletin*. 25(3): 607-616.
- Fredriksen, R.L. 1973. Impact of forest management on stream water quality in Western Oregon. *Proceedings, Pollution Abatement and Control in the Forest Products Industry, 1971-72*, USAD For. Serv.
- Fredriksen, R.L., D.G. Moore and L.A. Norris. 1975. The impact of timber harvest, fertilization, and herbicide treatment on stream water quality in Western Oregon and Washington. In B. Bernier and C.H. Winget (eds) *Proceedings of the 4th North American Forest Soils Conference, Laval University, Quebec*. 283-313.



- 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.
- Gilliom, R. 2001. Pesticides in the hydrologic system - what do we know and what's next. *Hydro Proc* 15: 3197-3201.
- Gluns, D.R. 1989. *Herbicide Residue In Surface Water Following an Application of Roundup in the Revelstoke Forest District*. B.C. Ministry of Forests Research Report 88001-NE. 9 pp.
- Holtby, L.B. 1989. Changes in the temperature regime of a valley-bottom tributary of Carnation Creek, British Columbia, over-sprayed with the herbicide Roundup (Glyphosate). In P.E. Reynolds (ed) *Proceedings of the Carnation Creek Herbicide Workshop*. Dec. 7-10, 1987: 212-223.
- Howard, K.W.F., J.I. Boyce, S.J. Livingstone and S.L. Salvatori. 1993. Road salt impacts on ground-water quality - the worst is still to come. *GSA-Today* 3(12): 301, 319-321.
- Hutchinson, T.C. and K.M. Meema (eds). 1987. *Effects of Atmospheric Pollutants on Forests, Wetlands and Agricultural Ecosystems*. NATO Advanced Science Institute Series. Series G: Ecological Sciences Vol. 16. Springer-Verlag, NY, NY.
- 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.
- Lickwar, P.M., F.W. Cabbage and C.A. Hickmann. 1990. Current southern state programs for control of forestry nonpoint source pollution. *Southern Journal of Applied Forestry*. 14(2): 64-69.
- Likens, G.E., F.H. Bormann, N.M. Johnson, D.W. Fisher and R.S. Pierce. 1970. Effects of forest cutting and herbicide treatment on nutrient budgets in the Hubbard Brook Watershed Ecosystem. *Ecological Monographs* 40(1): 23-47.
- Lull, K., J. Tindall, and D. Potts. 1995. Assessing nonpoint-source pollution risk. *Journal of Forestry* 93: 35-40.
- Lynch, J.A. and E.S. Corbett. 1990. Evaluation of best management practices for controlling nonpoint source pollution from silvicultural operations. *Water Resources Bulletin*. 26(1): 41-52.
- Lynch, J.A., E.S. Corbett and K. Mussallem. 1985. Best management practices for controlling nonpoint-source pollution on forested watersheds. *Journal of Soil and Water Conservation* 40(1): 164-167.
- Mayer, T., W.J. Snodgrass and D. Morin. 1999. Spatial characterization of the occurrence of road salts and their environmental concentrations as chlorides in Canadian surface waters and benthic sediments. *Water Quality Research Journal of Canada* 34(4): 545-574.
- Malik, N. and W.H. Vanden Born. 1986. *Use of Herbicides in Forest Management*. Information Report NOR-X-282, Northern Forestry Centre, Canadian Forestry Service, Edmonton, Alberta. 18 pp.
- 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 *Hyaella azteca* (Saussure). *Environmental Toxicology and Chemistry* 16: 1370-1376.
- Megahan, W.F. 1981. Nonpoint source pollution from forestry activities in the western United States: results of recent research and research needs. pgs. 92-151 in *Proc. US Forestry and Water Quality: What Course in the 80's?* Water Pollution Control Federation, Washington, DC.
- Michael, J.L. and D.G. Neary. 1990. Fate and transport of forestry herbicides in the south: research knowledge and needs. In Coleman, S.S. and D.G. Neary (eds) *Proceedings of the 6th Biennial Southern Silvicultural Research Conference Oct. 30-Nov. 1*, Memphis, Tenn. USDA For. Serv. Gen. Tech. Rep. 70, Southeastern Forest Experiment Station, Asheville, N. 8 pp.
- 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.
- National Research Council of Canada Associate Committee on Scientific Criteria For Environmental Quality. 1977. *Fenitrothion: The Long Term Effects Of Its Use In Forest Ecosystems: Current Status* Ottawa: NRCC 18 pp.
- NCASI. 1984. *A Guide To Monitoring Streamwater Quality Following Forestry Herbicide Application*. NCASI Tech. Bull. No. 430, New York, 40 pp.
- NCASI. 1994. *Benefits and Costs of Programs For Forestry Nonpoint Pollution Control In Washington and Virginia*. National Council of the Paper Industry for Air and Stream Improvement Technical Bulletin No. 660.
- NCASI. 1994. *Forests as Nonpoint Sources Of Pollution, and Effectiveness of Best Management Practices*. National Council of the Paper Industry for Air and Stream Improvement Technical Bulletin No. 672.
- NCASI. 1994. *Southern Regional Review of State Nonpoint Source Control Programs and Best Management Practices For Forest Management Operations*. National Council of the Paper Industry for Air and Stream Improvement. Technical Bulletin No. 686.
- 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.
- NCASI. 1995. Western states nonpoint source program review. Pages 108. National Council for Air and Stream Improvement, Research Triangle Park, NC.
- Neary, D.G. 1985. Hydrologic impacts of forest pesticide use. In *Proc. of Southern Forestry Symp.* Nov 19-21, 1985. Atlanta, GA. 288-310.
- Neary, D.G. 1988. Effects of pesticide applications on forested watersheds. In *Forest Hydrology and Ecology at Coweeta*. Vol. 66 Springer-Verlag. New York, NY. 325-327.
- Neary, D.G., J.L. Michael and J.A. Griffith. 1995. Herbicides - protecting long-term sustainability and water quality in forest ecosystems. Second International Conference on Forest Vegetation Management, March 20-24, 1995. *New Zealand Journal of Forestry Science*. 26: (1-2): 241-264.
- Neary, D.G., P.B. Bush and J.L. Michael. 1994. Fate, dissipation and environmental effects of pesticides in southern forests: a review of a decade of research progress. *Environmental Toxicology and Chemistry*. 12(3): 411-428.



- Neary, D.G., P.B. Bush and M.A. Grant. 1986. Water quality of ephemeral forest streams after site preparation with the herbicide Hexazinone. *Forest Ecology and Management*. 14(1): 23-40.
- Newton, M. and J.A. Norgren. 1977. *Silvicultural Chemicals and Protection of Water Quality*. USEPA Report # 910/0-77-036, Seattle, WA.
- Newton, M., K.M. Howard, B.R. Kelpsas, R. Danhaus, C.M. Lottman and S. Dubelman. 1984. Fate of Glyphosate in an Oregon Ecosystem. *Journal of Agricultural and Food Chemistry*. 32: 1144-1151.
- Nisbet, T.R. 2001. The role of forest management in controlling diffuse pollution in UK forestry. *Forest Ecology and Management* 143(1): 215-226.
- Norris, L., H. Lorz, and S. Gregory. 1991. Forest Chemicals. Pages 207-296 in W. Meehan, ed. *Influences of Forest and Rangeland Management on Salmonid Fishes*. American Fisheries Society, Baltimore, MD.
- Norris, L.A. 1978. *Toxic Materials in Forest Streams*. Presented April 20, 1978, Pacific Northwest Forest and Range Experiment Station, Forest Sciences Laboratory, USDA For. Serv., Corvallis, OR. 43-68.
- Norris, L.A. 1981. *Introduced Chemicals and Water Quality*.
- Norris, L.A. and D.G. Moore. 1971. The entry and fate of forest chemicals in streams. In J.T. Krygier and J.D. Hall (eds) *Forest Land Uses and Stream Environment. Proceedings of a Symposium Oct. 19-21, 1970*, Oregon State University, Corvallis, Oregon. 138-158.
- Norris, L.A. and D.G. Moore. 1976. Forests and rangelands as sources of chemical pollutants. *Non-Point Sources of Water Pollution, Seminar Publication, Proceedings of Spring Quarter 1976 Weekly Series*, July 1976. Water Resources Research Institute, Oregon State University, Corvallis, OR. 17-35.
- Norris, L.A. and W.L. Webb. 1989. Effects of fire retardant on water quality in Berg, N.H. (Tech. co-ord.) *Proceedings of the Symposium on Fire and Watershed Management 1988 Oct. 26-28. 1989*. USDA Forest Service. Pacific Southwest Forest and Range Experiment Station. General Technical Report PSW-109, Berkeley, California.
- Novotny, V. and G. Chesters. 1989. Delivery of sediment and pollutants from nonpoint sources: a water quality perspective. *Journal of Soil and Water Conservation*. Nov/Dec: 568-576.
- Pauli, B.D., R.A. Kent and M.P. Wong. 1991. *Canadian Water Quality Guidelines for Simazine*. Inland Waters Directorate, Water Quality Branch, Environment Canada, Ottawa. Scientific Series No. 187. 40 pp.
- Reynolds, P.E. 1989. *Proceedings of The Carnation Creek Herbicide Workshop. Dec. 7-10, 1987*. Forestry Canada, Forest Pest Management Institute, Sault Ste. Marie, Ont. FRDA Report, No. 063. Victoria, BC.
- Reynolds, P.E., J.C. Scrivener, L.B. Holtby and P.D. Kingsbury. 1993. Review and synthesis of Carnation Creek herbicide research. *Forestry Chronicle*. 69(3): 323-330.
- Riekerk, H., D.G. Neary and W.T. Swank. 1989. *The Magnitude of Upland Silvicultural Nonpoint Source Pollution In The South*. USDA Forest Service Southeast Forest Experiment Station. General Technical Report Jan. 1989 (50). Asheville, NC.
- Rothrock, J., P. Barten, and G. Ingam. 1998. Land use and aquatic biointegrity in the Blackfoot River watershed, Montana. *Journal of the American Water Resources Association* 34: 565-581.



- Singh, T. and Y.P. Kalra. 1977. Estimation of Natural Pollution Loads From Streamflow Measurements In Remote Catchments. *Water Air and Soil Pollution* 7: 111-116.
- Spooner, J. and D.E. Line. 1993. Effective monitoring strategies for demonstrating water quality changes from nonpoint source controls on a watershed scale. *Water Science Technology* 28(3-5): 143-148.
- Sundaram, K.M.S., S.B. Holmes, D.P. Kreuzweiser, A. Sundaram and P.D. Kingsbury. 1991. Environmental persistence and impact of diflufenuron in a forest aquatic environment following aerial application. *Archives of Environmental Contamination and Toxicology*. 20(3): 313-324.
- Steedman, R.J., R.L. France, R.T. Brooks and N. Lust (eds). 2000. Origin and transport of Aeolian sediment from new clear-cuts into boreal lakes. Northwestern Ontario, Canada. In *The Science of Managing Forests to Sustain Water Resources. Proceedings of an International Conference, Sturbridge, Massachusetts, USA, November 8-11 1998*. Water, Air, and Soil Pollution. 122: 139-152
- Sylvestre, S., R. Brewer, M. Sekala, T. Tuominen, and G. Moyle. 1998. Survey of contaminants in suspended sediment and water in the Fraser River Basin from McBride to Vancouver (1996). Pages 116. Fraser River Action Plan, Vancouver.
- Tetra Tech, Inc. 1993. *Summary of Current State Nonpoint Source Control Practices For Forestry*. (Fairfax, Virginia) Nonpoint Source Control Branch, Office of Water, US Environmental Protection Agency, Washington, D.C.
- Tetra Tech, Inc. 1993. *Water Quality Effects and Nonpoint Source Control for Forestry: An Annotated Bibliography*. Nonpoint Source Control Branch. Office of Wetlands, Oceans, and Watersheds. U.S. Environmental Protection Agency. Washington, D.C.
- Trombulak, S., and C. Frissell. 2000. Review of ecological effects of roads on terrestrial and aquatic communities. *Conservation Biology* 14: 18-30.
- Trotter, D.M., M.P. Wong and R.A. Kent. 1990. *Canadian Water Quality Guidelines For Glyphosate*. Scientific Series No. 170, Inland Waters Directorate. Water Quality Branch, Environment Canada, Ottawa, Ontario. 27 pp.
- Vanden B., W. Malik and H Najib. 1984. *Herbicide Use In North American Forestry: A Literature Survey and an Assessment of Its Environmental Impact and Its Future Potential For Forest Management In The Prairie Provinces of Canada*. Northern Forest Research Centre. Edmonton, Alta.: Univ. of Alberta Dept of Plant Science. 124 pp.
- Wan, M.T.K. 1986. *Persistence of Glyphosate and Its Metabolite Amino-Methyl- Phosphonic Acid in Some Coastal British Columbia Streams*. Environmental Protection Service.
- Warrington, P.D. and C. Phelan. 1998. *Road Salt and Winter Maintenance For British Columbia Municipalities: Best Management Practices To Protect Water Quality British Columbia*. Ministry of Environment, Lands and Parks. Water Quality Section. 40 pp.
- Washington (State) Department of Ecology. 1995. *Best Management Practices To Prevent Stormwater Pollution at Log Yards*. Stormwater Unit, Washington State Department of Ecology. Olympia, WA. 57 pp.
- Wu, T.L., D.L. Correll and H.H. Correll. 1983. Remenapp - Herbicide runoff from experimental watersheds. *Journal of Environmental Quality*. 12(3): 330-336.
- Zitko, V. and D.W. McCleese. 1980. *Evaluation of Hazards of Pesticides Used In Forest Spraying To The Aquatic Environment*. Canadian Technical Report of Fisheries and Aquatic Environment. No. 985.

