**PUBLICATIONS AND THESES FROM THE ALSEA WATERSHED STUDY  
1960-1975**

PUBLICATIONS

Brazier, J.R., and Brown, G.W. 1973. *Buffer strips for stream temperature control*. Research Paper 15. Corvallis, OR: Forest Research Laboratory, Oregon State University. 9 pp.

Brown, G.W. 1969. Predicting temperatures of small streams. *Water Resources Research* 5(1):68‑75.

Brown, G.W. 1970. Predicting the effect of clearcutting on stream temperature. *Journal of Soil and Water Conservation* 25(1):11‑13.

Brown, G.W. 1971. Water temperature in small streams as influenced by environmental factors and logging. 175-181 in Krygier, J.T. and Hall, J.D. (eds.). *Forest land uses and stream environment*. Corvallis, OR: Oregon State University.

Brown, G.W. 1972. Effects of forest management on stream temperature. 93-105 in *Proceedings of a symposium on interdisciplinary aspects of watershed management*. August 3‑6, 1070. Montana State University and American Society of Civil Engineers.

Brown, G.W. 1972. Logging and water quality in the Pacific Northwest. 330‑334 in *Proceedings of a symposium on watersheds in transition*. Colorado State University and American Water Resources Association.

Brown, G.W. 1972. The Alsea Watershed Study. *Loggers Handbook* 32:13‑15, 127‑130.

Brown, G.W. 1973. *The impact of timber harvest on soil and water resources*. Extension Bulletin No. 827. Corvallis, OR: Oregon State University. 17 pp.

Brown, G.W. 1974. Fish habitat. E1‑E15 in *Residues management in the Pacific Northwest*. USDA Forest Service, Pacific Northwest Forest and Range Experimental Station.

Brown, G.W., Gahler, A.R., and Marston, R.B. 1973. Nutrient losses after clear-cut logging and slash burning in the Oregon Coast Range. *Water Resources Research* 9(5):1450‑1453.

Brown, G.W and Krygier, J.T. 1967. Changing water temperatures in small mountain streams. *Journal of Soil and Water Conservation* 22(6):242‑244.

Brown, G.W and Krygier, J.T. 1970. Effects of clearcutting on stream temperature. *Water Resources Research* 6(4):1133‑1139.

Brown, G.W and Krygier, J.T. 1971. Clearcut logging and sediment production in the Oregon Coast Range. *Water Resources Research* 7(5):1189‑1198.

Campbell, H.J. 1970. Alsea Watershed Study–A progress report. 172‑181 in *Proceedings of the 50th Annual Conference*. Western Association of State Game and Fish Commission.

Campbell, H.J. 1971. Economic and social significance of upstream aquatic resources on the West Coast. 11-19 in Krygier, J.T. and Hall, J.D. (eds.). *Forest land uses and stream environment*. Corvallis, OR: Oregon State University.

Chapman, D.W. 1962. Effects of logging upon fish resources of the West Coast. *Journal of Forestry* 60(8):533‑537.

Chapman, D.W. 1962. Aggressive behavior in juvenile coho salmon as a cause of emigration. *Journal of the Fisheries Research Board of Canada* 19:1047‑1080.

Chapman, D.W. 1965. Net production of juvenile coho salmon in three Oregon streams. *Transactions of the American Fisheries Society* 94(1):40‑52.

Chapman, D.W. 1966. The relative contributions of aquatic and terrestrial primary producers to the trophic relations of stream organisms. *Pymatuning Laboratory Symposia in Ecology*. Special Publication No. 4:116‑130. University of Pittsburgh.

Chapman, D.W., Corliss, J.F., Phillips, R.W., and Demory, R.L. 1961. *Alsea Watershed Study–Summary report*. Misc. Paper 110. Oregon State University Agricultural Experiment Station. 52 pp.

Chapman, D.W., and Demory, R.L. 1963. Seasonal changes in the food ingested by aquatic insect larvae and nymphs in two Oregon streams. *Ecology* 44(1):140‑146.

Claire, E.W., and Phillips, R.W. 1968. The stonefly *Acroneuria pacifica* as a potential predator on salmonid embryos. *Transactions of the American Fisheries Society* 97:50‑52.

Coble, D.W. 1961. Influence of water exchange and dissolved oxygen in redds on survival of steelhead trout embryos. *Transactions of the American Fisheries Society* 90(4):469‑474.

Corliss, J.F. 1963. Soil survey of Alsea Area, Oregon. USDA Soil Conservation Service and Forest Service, USDI Bureau of Land Management, in cooperation with Oregon Board of Natural Resources and Oregoon Agricultural Experiment Station. Superintendent of Documents, Washington, DC. 82 pp.

Corliss, J.F., and Dyrness, C.T. 1964. *Soil and vegetation survey, Alsea area, Oregon*. USDA Soil Conservation Society in cooperation with Oregon State University, USDI Bureau of Land Management, and USDA Forest Service. 730 pp.

Corliss, J.F., and Dyrness, C.T. 1965. A detailed soil-vegetation survey of the Alsea area in the Oregon Coast Range. 457‑483 in Youngberg, C.T. (ed.). *Forest-soil relationships in North America*. Corvallis, OR: Oregon State University Press.

Hall, J.D. 1968. Effects of logging on fish resources. 24‑27 in *The Loggers Handbook*, vol. 28. Proceedings of the 58th Pacific Logging Conference.

Hall, J.D. 1970. Timber and fish: Collision or coexistence? *Oregon’s Agricultural Program* 16(3):3,12.

Hall, J.D., and Campbell, H.J. 1968. The effects of logging on the habitat of coho salmon and cutthroat trout in coastal streams. 5‑37 in *Logging and salmon, the proceedings of a forum*. American Institute of Fisheries Resources Biology, Alaska District. Juneau, AK, February 8‑9.

Hall, J.D., and Krygier, J.T. 1967. *Progress report: Studies on effects of watershed practices on streams*. Report to Federal Water Pollution Control Authority. Grant WP‑423. Corvallis, OR: Oregon State University. 95 pp.

Hall, J.D., and Lantz, R.L. 1969. Effects of logging on the habitat of coho salmon and cutthroat trout in coastal streams. 355‑375 in Northcote, T.G. (ed.). *H.R. MacMillan Lecture Series, Symposium on salmon and trout in streams*. Vancouver, BC: University of British Columbia.

Hall, J.D., and Scott, T.G. 1969. Recreational and esthetic values of wildlife in relation to forest management. 22‑25 in Black, H.C. (ed.). *Wildlife and reforestation in the Pacific Northwest*. Corvallis, OR: Oregon State University School of Forestry.

Hansmann, E.W., Lane, C.B., and Hall, J.D. 1971. A direct method of measuring benthic primary production in streams. *Limnology Oceanography* 16:822‑826.

Hansmann, E.W., and Phinney, H.K. 1973. Effects of logging on periphyton in coastal streams of Oregon. *Ecology* 54:194‑199.

Harr, R.D., Harper, W.C., Krygier, J.T., and Hsieh, F.S. 1975. Changes in storm hydrographs after road building and clearcutting in the Oregon Coast Range. *Water Resources Research* 11(3):436‑444.

Harr, R.D., and Krygier, J.T. 1972. *Clearcut logging and low flows in Oregon coastal watersheds*. Research Note 54. Corvallis, OR: Oregon State University School of Forestry. 3 pp.

Harris, D.D. 1973. Hydrologic changes after clear-cut logging in a small Oregon coastal watershed. *Journal of Research of the United States Geological Survey* 1(4):487‑491.

Harris, D.D., and Williams, R.C. 1971. *Streamflow, sediment transport, and water temperature characteristics of three small watersheds in the Alsea River basin, Oregon*. United State Geological Survey Circular 642. 21 pp.

Iwanaga, P.M., and Hall, J.D. 1973. Effects of logging on growth of juvenile coho salmon. EPA‑R3‑73‑006. United States Environmental Protection Agency Ecological Research Service. 35 pp.

Krygier, J.T., and Hall, J.D. (eds.). 1971. *Forest land uses and stream environment*. Proceedings of a symposium, October 1970. Continuing Education Publication. Corvallis, OR: Oregon State University. 252 pp.

Lantz, R.L. 1967. An ecological study of the effects of logging on salmonids. 323‑335 in *Proceedings of the 47th Annual Conference*. Honolulu, HI. Western Association of State Game and Fish Commissions.

Lantz, R.L. 1970. Effects of logging on aquatic resources. 13‑16 in Rayner, H.J., Campbell, H.J., and Lightfoot, W.C. (eds.). *Progress in game and sport fishery research–1964-69*. Corvallis, OR: Oregon State Game Commission, Research Division.

Lantz, R.L. 1971. *Guidelines for stream protection in logging operations*. Corvallis, OR: Oregon State Game Commission, Research Division. 29 pp.

Lantz, R.L. 1971. Influence of water temperature on fish survival, growth, and behavior. 182‑193 in Krygier, J.T., and Hall, J.D. (eds.). *Forest land uses and stream environment*. Corvallis, OR: Oregon State University.

Lowry, G.R. 1964. Some ways of increasing the utility of a back-pack fish shocker. *Prog. Fish-Cult.* 26:127‑130.

Lowry, G.R. 1965. Movement of cutthroat trout, *Salmo clarki clarki* (Richardson), in three Oregon coastal streams. *Transactions of the American Fisheries Society* 94:334‑338.

Lowry, G.R. 1966. Production and food of cutthroat trout in three Oregon coastal streams. *Journal of Wildlife Management* 30:754‑767.

Marston, R.B., Tyo, R.M., and Middendorff, S.C. 1969. Endrin in water from treated Douglas-fir seed. *Pesticides Monitoring Journal* 2(4):167‑171.

Mason, J.C., and Fessler, J.L. 1966. A simple apparatus for the incubation of salmonid embryos at controlled levels of temperature, water flow and dissolved oxygen. *Prog. Fish-Cult.* 18:171‑174.

Moore, D.G., Hall, J.D., and Hug, W.L. 1974. *Endrin in forest streams after aerial seeding with endrin-coated Douglas-fir seed*. Research Note PNW-219. Portland, OR: USDA Forest Service, Pacific Northwest Forest and Range Experimental Station.

Moring, J.R. 1975. *The Alsea Watershed Study: Effects of logging on the aquatic resources of three headwater streams of the Alsea River, Oregon. Part II–Changes in environmental conditions*. Fisheries Research Report No. 9 (part 2). Oregon Department of Fish and Wildlife.

Moring, J.R. 1975. *The Alsea Watershed Study: Effects of logging on the aquatic resources of three headwater streams of the Alsea River, Oregon. Part III–Discussion and recommendations*. Fisheries Research Report No. 9 (part 3). Oregon Department of Fish and Wildlife.

Moring, J.R., and Lantz, R.L. 1974. *Immediate effects of logging on the freshwater environment of salmonids*. Final Report AFS 58. Portland, OR: Oregon Wildlife Commission. 101 pp.

Moring, J.R., and Lantz, R.L. 1975. *The Alsea Watershed Study: Effects of logging on the aquatic resources of three headwater streams of the Alsea River, Oregon. Part I–Biological studies*. Fisheries Research Report No. 9 (part 1). Oregon Department of Fish and Wildlife.

Oregon State Game Commission. 1963. *Annual report*. Portland, OR: Oregon State Game Commission, Division of Wildland Resources. pp. 105-122.

Phillips, R.W. 1964. The influence of gravel size on survival to emergence of coho salmon and steelhead trout. *Proceedings of the 15th Northwest Fish Cult. Conference*. Corvallis, OR: Oregon State University.

Phillips, R.W. 1965. Effects of fine materials on salmon and trout redds. 59‑61 in *Proceedings of meeting on erosion and sedimentation in the Northwest, 1964-65 flood season*. Portland, OR: USDA Soil Conservation Service.

Phillips, R.W. 1966. A trap for capturing salmonids emerging from spawning gravel. *Prog. Fish-Cult.* 28(2):107.

Phillips, R.W., and Campbell, H.J. 1962. The embryonic survival of coho salmon and steelhead trout as influenced by some environmental conditions in gravel beds. 60‑73 in *Fourteenth annual report of the Pacific Maritime Fisheries Commission for the year 1961*.

Phillips, R.W., Campbell, H.J., Hug, W.L., and Claire, E.W. 1966. *A study of the effects of logging on aquatic resources, a progress report, 1960-66*. Program Memorandum, Fisheries No. 3. Oregon State Game Commission, Research Division. 28 pp.

Phillips, R.W., and Claire, E.W. 1966. Intragravel movement of the reticulate sculpin (*Cottus* *perplexus*) and its potential as a predator on salmonid eggs. *Transactions of the American Fisheries Society* 95(2):210‑212.

Phillips, R.W., and Koski, K.V. 1969. A fry trap method for estimating salmonid survival from egg deposition to fry emergence. *Journal of the Fisheries Research Board of Canada* 26(1):133‑141.

Phillips, R.W., Lantz, R.L., Claire, E.W., and Moring, J.R. 1975. Some effects of gravel mixtures on emergence of coho salmon and steelhead trout. *Transactions of the American Fisheries Society* 104(3).

Ponce, S.L. 1974. The biochemical oxygen demand of finely divided logging debris in stream water. *Water Resources Research* 10:983‑988.

Ponce, S.L., and Brown, G.W. 1974. *Demand for dissolved oxygen exerted by finely divided logging debris in streams*. Research Paper 19. Corvallis, OR: Oregon State University, Forest Research Laboratory. 10 pp.

Ringler, N.H., and Hall, J.D. 1975. Effects of logging on water temperature and dissolved oxygen in spawning beds. *Transactions of the American Fisheries Society* 104:111‑121.

Williams, R.C. 1964. *Sedimentation in three small forested drainage basins in the Alsea River basin, Oregon*. Circular 490. United States Geological Survey. 16 pp.

THESES

Au, D.W.K. 1972. *Population dynamics of the coho salmon and its response to logging in three coastal streams*. Ph.D. thesis. Oregon State University, Department of Fisheries and Wildlife. 245 pp.

Berry, J.D. 1975. *Modeling the impact of logging debris on the dissolved oxygen balance of small mountain streams*. M.S. thesis. Oregon State University, Department of Forest Engineering. 163 pp.

Brazier, J.R. 1973. *Controlling water temperatures with buffer strips*. M.S. thesis. Oregon State University, Department of Forest Engineering. 65 pp.

Brown, G.W. 1967. *Temperature prediction using energy budget techniques on small mountain streams*. Ph.D. thesis. Oregon State University, Department of Forest Management. 120 pp.

Chapman, D.W. 1961. *Factors determining production of coho salmon,* Oncorhynchus kisutch, *in three Oregon streams*. Ph.D. thesis. Oregon State University, Department of Fisheries and Wildlife. 214 pp.

Coble, D.W. 1960. *The influence of environmental conditions in redds on the survival of salmonid embryos*. M.S. thesis. Oregon State University, Department of Fisheries and Wildlife. 37 pp.

Demory, R.L. 1961. *Foods of juvenile coho salmon and two insect groups in the coho diet in three tributaries of the Alsea River, Oregon*. M.S. thesis. Oregon State University, Department of Fisheries and Wildlife. 68 pp.

Garvin, W.F. 1975. *The intrusion of logging debris into artificial streambeds*. M.S. thesis. Oregon State University, Department of Forest Engineering. 79 pp.

Gilleran, D.J. 1968. *Rapid calibration of coastal streams to detect effects of road building*. M.S. thesis. Oregon State University, Department of Forest Management. 51 pp.

Hansmann, E.W. 1969. *The effects of logging on periphyton communities of coastal streams*. Ph.D. thesis. Oregon State University, Department of Botany. 120 pp.

Harper, W.C. 1969. *Changes in storm hydrographs due to clearcut logging of coastal watersheds*. M.S. thesis. Oregon State University, Department of Forest Management. 116 pp.

Holtje, R.K. 1971. *Reaeration in small mountain streams*. Ph.D. thesis. Oregon State University, Department of Forest Engineering.

Hsieh, F.S. 1970. *Storm runoff response from roadbuilding and logging on small watersheds in the Oregon Coast Range*. M.S. thesis. Oregon State University, Department of Civil Engineering. 147 pp.

Iwanaga, P.M. 1971. *Effects of logging on the growth of juvenile coho salmon*. M.S. thesis. Oregon State University, Department of Fisheries and Wildlife. 44 pp.

Kelly, G.D. 1968. *A comparison of several methods for erosion measurement on cut and fill slopes of a logging road in the Oregon Coast Range*. M.S. thesis. Oregon State University, Department of Forest Management. 114 pp.

Koski, K.V. 1966. *The survival of coho salmon* (Oncorhynchus kisutch) *from egg deposition to emergence in three Oregon coastal streams*. M.S. thesis. Oregon State University, Department of Fisheries and Wildlife. 84 pp.

Krohn, D.C. 1968. *Production of the reticulate sculpin* (Cottus perplexus) *and its predation on salmon fry in three Oregon streams*. M.S. thesis. Oregon State University, Department of Fisheries and Wildlife. 78 pp.

Lane, C.B. 1965. *Metabolism of periphyton communities in two small streams*. M.S. thesis. Oregon State University, Department of Fisheries and Wildlife. 57 pp.

Lindsay, R.B. 1975. *Distribution and survival of coho salmon fry after emigration from natal streams*. M.S. thesis. Oregon State University, Department of Fisheries and Wildlife. 41 pp.

Lowry, G.R. 1964. *Net production, movement, and food of cutthroat trout* (Salmo clarki clarki, *Richardson*) *in three Oregon coastal streams*. M.S. thesis. Oregon State University, Department of Fisheries and Wildlife. 72 pp.

Ponce, S.L. 1974. *The biochemical demand of Douglas-fir needles and twigs, western hemlock needles, and red alder leaves in stream waters*. M.S. thesis. Oregon State University, Department of Forest Engineering. 141 pp.

Ringler, N.H. 1970. Effects of logging on the spawning bed environment in two Oregon coastal streams. M.S. thesis. Oregon State University, Department of Fisheries and Wildlife. 96 pp.