

## Curriculum Vitae

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### **Robert E. Bilby**

#### Business Address

Weyerhaeuser Co., Technology Center  
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### **EDUCATION**

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| 1974 | B.S. (summa cum laude), University of Rhode Island, Zoology                 |
| 1979 | Ph.D., Cornell University, Ecology  |
| 1993 | Graduate, Washington Agriculture and Forestry Foundation Leadership Program |

### **EMPLOYMENT**

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|--------------|--|
| 2000-present | Senior Scientist, Weyerhaeuser Company   |
| 1998-2000    | Manager, Watershed Processes Program, Northwest Fisheries Science Center, National Marine Fisheries Service, Seattle, WA |
| 1996-1998    | Senior Science Advisor, Weyerhaeuser Co. Tacoma WA, Team Lead of Landscape Management Program                            |
| 1980-1996    | Aquatic Ecologist, Weyerhaeuser Company, Tacoma WA, Lead of Aquatic Ecology Project                                      |
| 1979-1980    | Research Associate, Cornell University   |
| 1980         | Teaching Assistant, Cornell University   |
| 1979         | Research Assistant, Cornell University   |

### **AREAS OF EXPERTISE**

- Effects of forest practices on aquatic ecosystems
- The structure and function of stream ecosystems
- Ecology of riparian ecosystems
- Production, population dynamics, and community interactions of stream-dwelling fishes
- Influence of non-point source pollution on aquatic ecosystems

### **SCHOLASTIC AND PROFESSIONAL AWARDS AND HONORS**

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|------|--|
| 2000 | Past-President's Award, Western Division, American Fisheries Society                       |
| 1998 | Recognition Award, Alaska Chapter, American Fisheries Society                              |
| 1997 | Meritorious Service Award, North Pacific International Chapter, American Fisheries Society |

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| 1997      | Citation for Best Paper, 1996 Annual General Meeting, North Pacific International Chapter, American Fisheries Society |
| 1996      | Past President's Award, North Pacific International Chapter, American Fisheries Society                               |
| 1991      | Appreciation Award, Washington Timber/Fish/Wildlife   |
| 1989      | Citation for Best Paper, 1989 Annual General Meeting, North Pacific International Chapter, American Fisheries Society |
| 1977–1978 | Cornell University Fellowship, Cornell University   |
| 1974–1977 | National Science Foundation Fellowship, Cornell University  |
| 1974–1976 | Dean's List, Cornell University   |
| 1973      | Phi Kappa Phi Honor Society, University of Rhode Island   |
| 1970–1974 | Dean's List, University of Rhode Island   |

#### **WEYERHAEUSER CO. AWARDS**

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| 1997 | Weyerhaeuser Co. President's Award                               |
| 1995 | Research Excellence Award  |
| 1995 | Award for Participation in Twin Harbors Habitat Management Plan  |
| 1994 | Award for Support of Oregon Timberlands                          |
| 1989 | Award for Participation in Internal Environmental Workshop       |
| 1988 | Award for Participation in Timber/Fish/Wildlife Negotiations     |
| 1986 | Award for Research Center Facilities Upgrade                     |
| 1984 | Award for Participation on Centralia Research Center Safety Team |

#### **PROFESSIONAL SOCIETIES**

- Ecological Society of America
- American Fisheries Society
- Washington Agriculture and Forestry Education Foundation
- American Society of Limnology and Oceanography

## RESEARCH GRANTS

- 2000 Bonneville Power Administration to R.E. Bilby, Levels of Marine Derived N in the Tissues of Juvenile Chinook Salmon and Steelhead in the Snake River Basin-Continued Funding Grant (\$105,000)
- 1999 National Marine Fisheries Service to R.E. Bilby, Relationship between Salmon and Steelhead Abundance and Freshwater Habitat Conditions in the Willamette River Watershed (\$50,000)
- 1998 Bonneville Power Administration to R.E. Bilby, Levels of Marine Derived N in the Tissues of Juvenile Chinook Salmon and Steelhead in the Snake River Basin (\$180,000)
- 1997 Olympic Natural Resources Center, to R. E. Bilby and P. A. Bisson. Nutrient enrichment of riparian ecosystems by spawning salmon (\$20,720)
- 1997 Washington Department of Natural Resources, to R. E. Bilby and C. J Cederholm. Influence of density of spawning coho salmon on N and C stable isotope signatures in stream biota. (\$3500)
- 1996 Washington Forest Protection Association, to L. Benda, D. Miller, R. Bilby, and T. Dunne. Spatial and temporal dynamics of woody debris in streams: a wood budgeting approach. (\$58,650)
- 1996 Washington Department of Natural Resources, to R. E. Bilby and C. J Cederholm. Influence of density of spawning coho salmon on N and C stable isotope signatures in stream biota. (\$5,000)
- 1995 National Council for Air and Stream Improvement, to R. E. Bilby and C. Andrus. Influence of management history on current condition of riparian vegetation and in-channel LWD in the Willapa Bay watershed. (\$10,000)
- 1992 Washington Forest Protection Association, to R. E. Bilby and C. J. Cederholm. Evaluation of the impact of stream habitat alterations on coho smolt production. (\$15,000)
- 1990 Washington Department of Natural Resources, Washington Forest Protection Association, to R. E. Bilby and C. J. Cederholm. Placement and evaluation of the biological impact of enhancement structures in a stream ecosystem. (\$100,000)
- 1989 U.S. Forest Service, Oregon State University, Weyerhaeuser Company, to R. E. Bilby, J. R. Sedell, and T. McMahon. Relationship between size and orientation of large woody debris and stability, channel morphology, and fish community composition. (\$50,000)
- 1988 Timber, Fish and Wildlife, to R. E. Bilby and C. J. Cederholm. Establish baseline conditions of habitat and fish populations in Porter Creek prior to habitat enhancement. (\$18,000)
- 1975–1978 National Science Foundation Graduate Research Grant, to R. E. Bilby. Function of large woody debris in stream ecosystems. (\$9000)

## TECHNICAL PANEL APPOINTMENTS

- 2000 Validation Monitoring for Salmon, Olympic Natural Resources Center
- 2000 Co-Chair, Subbasin Assessment Committee, Northwest Power Planing Council
- 1999 Member, Palco HCP Watershed Analysis Technical Panel, National Marine Fisheries Service, U.S. Fish and Wildlife Service, CA Dept. of Fish and Game, Pacific Lumber Co.

- 1998-1999 Member, Columbia Basin Watershed Technical Review Panel, Columbia Basin Fish and Wildlife Authority
- 1997 American Fishereis Society Technical Panel, Review of Washington's Wild Salmonid Policy
- 1997-1998 Member, Essential Fish Habitat Salmon Technical Team, National Marine Fisheries Service
- 1997-1998 Member, Science Advisory Group, Willapa Alliance, South Bend, Washington
- 1996-Present Board Member, Center for Community and Watershed Health, Eugene, Oregon
- 1996 Research Grant Review Panel, Ecosystem Studies Program, National Science Foundation
- 1996 Member, Technical Committee for Triennial Review of Water Quality Standards, Washington Department of Ecology, Olympia, Washington
- 1995 Member, Sediment and Water Quality Technical Review Committee, Washington Department of Ecology, Olympia, Washington
- 1994 Member, Bioassessment Technical Review Committee, Washington Department of Ecology, Olympia, Washington
- 1993 Member, Large Woody Debris Modeling Committee, Oregon Department of Forestry, Salem, Oregon
- 1990-1991 Member, Tualitin River TMDL Technical Specialist Panel, Oregon Department of Environmental Quality, Portland, Oregon
- 1990 Member EPA Monitoring Guidelines Technical Steering Committee, EPA, Region 10, Seattle, Washington
- 1988-1993 Member, Water Quality Steering Committee, Timber/Fish/ Wildlife, (Chair, 1989-1992), Olympia, Washington
- 1986-1992 Member, Timber Fish and Wildlife (TFW) Cooperative Monitoring, Evaluation and Research Committee, Olympia, Washington
- 1984-1986 Member, Washington Riparian Habitat Technical Committee

#### **PROFESSIONAL SOCIETY ACTIVITIES**

- 2000 National Awards Committee, American Fisheries Society
- 1996-2000 Vice President, President-Elect, President, Past-President, Western Division, American Fisheries Society
- 1995-1998 Corporate Awards Committee, Ecological Society of America
- 1995-1996 Symposium Steering Committee Member, Towards Sustainable Fisheries: Balancing Conservation and Use of Salmon and Steelhead in the Pacific Northwest
- 1994-Present Annual Seminar Organizer, Business and Transportation Issues in Washington, Washington Agriculture and Forestry Education Foundation
- 1994 Chair of Organization Committee for the 15th Annual Meeting of the North Pacific International Chapter of the American Fisheries Society, Wenatchee, Washington

- 1993–Present Curriculum Committee, Washington Agriculture and Forestry Education Foundation
- 1992–1996 Vice President, President-Elect, President, Past-President, North Pacific International Chapter, American Fisheries Society
- 1993 Seminar Coordinator, Washington Agriculture and Forestry Education Foundation Class XIV, International Seminar: Russia, Lithuania, Latvia, Estonia, Finland
- 1992–1993 Member, Executive Committee, Western Division, American Fisheries Society
- 1992 Seminar Coordinator, Washington Agriculture and Forestry Education Foundation Class XIV: Forestry Seminar
- 1989–1993 Member, Fisheries/Forestry Committee, North Pacific International Chapter, American Fisheries Society (Committee Chair 1989–1992)
- 1989–Present Member, Riparian Committee, Western Division, American Fisheries Society
- 1988–Present Member, Environmental Affairs Committee, American Fisheries Society
- 1977–Present Member, Aquatic Ecology Section, Ecological Society of America

#### **AFFILIATE FACULTY ACTIVITIES/TEACHING EXPERIENCE**

- 1994–Present Affiliate Professor, College of Forest Resources - Center for Streamside Studies, University of Washington
- 1991-Present Periodic guest lectures on Salmon Habitat; Forestry-Fisheries Interactions, Cumulative Effects, Stream Ecosystem Function and Riparian Ecology, Center for Streamside Studies, University of Washington, Seattle, Washington
- 1990–1991 Series of guest lectures on riparian management, Evergreen College, Olympia, Washington
- 1984–1985 Part-time faculty member, Centralia College, Centralia, Washington, developed and taught a course entitled, "Ecology of Trout and Salmon"

#### **SELECTED PRESENTATIONS AT RECENT MEETINGS AND WORKSHOPS**

- 2000 International Conference on Wood in World Rivers, Corvallis Oregon – *Decomposition and nutrient dynamics of wood in lotic ecosystems*
- 2000 Forestry Summit 2000, Olympia, WA - *Why are forests good for fish and why are fish good for forests*
- 2000 Plenary Presentation, Forest Road Stewardship Workshop, Corvallis, OR – *The effects of roads on aquatic habitat and fish*
- 1999 Plenary Presentation, Dead Wood in Western Forest Ecosystems, Reno, NV – *Role of large woody debris in aquatic ecosystems*
- 1999 Costal Oregon Productivity Enhancement: A Capstone Symposium, Corvallis OR – *Restoration of stream habitat in the Pacific Northwest*
- 1998 Annual Meeting, Western Division, American Fisheries Society, Anchorage, AK – *Establishing escapement levels to sustain nutritional health of aquatic ecosystems*

- 1998 Annual Meeting of the Northwest Soil Science Society – *Effects of forestry on stream and riparian ecosystems*
- 1998 Symposium on Uncertainty and Risk in Salmon Harvest Management, Olympia, Washington - *Escapement goals and stream ecosystem health.*
- 1997 Annual Meeting, American Fisheries Society, Monterey, California - *Spawning salmon and healthy stream ecosystems: How many fish do we need?*
- 1997 Annual Meeting, American Fisheries Society, Monterey, California - *Weyerhaeuser's Willamette Habitat Conservation Plan*
- 1997 Timber/Fish/Wildlife Small Streams Workshop, Seattle, WA - *Large woody debris in headwater streams*
- 1997 Annual Meeting, North Pacific International Chapter, AFS, Vancouver, B.C.—*Spawning salmon and the ecological integrity of Pacific Northwest watersheds*
- 1997 Annual Meeting, North Pacific International Chapter, AFS, Vancouver, B.C.—*Disturbance patterns and the management of Pacific Northwest watersheds*

## **PUBLICATIONS**

### **Books**

Naiman, R. J. and R. E. Bilby (eds.). 1998. River ecology and management: Lessons from the Pacific coastal ecoregion. Springer-Verlag, New York.

### **Peer Reviewed Publications**

- Bilby, R.E., B. R. Fransen, J. W. Walter, C. J. Cederholm and W. J. Scarlett. 2001. Preliminary evaluation of the use of nitrogen stable isotope ratios to establish escapement levels for Pacific salmon. *Fisheries* 26(1): 6-14.
- Naiman, R. J., R. E. Bilby and P. A. Bisson. 2000. Riparian ecology and management in the Pacific coastal rain forest. *BioScience* 50: 996-1011.
- Naiman, R., E. Balian, K. Bartsz, R. Bilby and J. Latterell. *In Press*. Dead wood dynamics in streams. *in* Dead Wood in Western Forest Ecosystems. The Wildlife Society.
- Beechie, T., S. Bolton, G. Pess, P. Kennard and R. Bilby. 2000. Modeling rates and pathways of recovery for woody debris recruitment in northwestern Washington streams. *N. Amer. J. Fish. Mgmt.* 20:436-452.
- Rot, B.W., R.J. Naiman, R.E. Bilby. 2000. Stream channel configuration, landform, and riparian forest structure in the Cascade Mountains, Washington. *Can. J. of Fish. and Aquat. Sci* 57:1-9.
- Bilby, R. E., J. T. Heffner, B. R. Fransen, J. W. Ward and P. A. Bisson. 1999. Effect of immersion in stream water on the deterioration of wood from 5 tree species commonly used for habitat enhancement projects. *N. Amer. J. Fish. Mgmt.* 19: 687-695.
- Bilby, R. E., B. R. Fransen, P. A. Bisson and J. K. Walter. 1998. Response of juvenile coho salmon and steelhead to the addition of salmon carcasses to two streams in southwest Washington, USA. *Can. J. of Fish. and Aquat. Sci.*55:1909-1918.
- Bilby, R. E. and P. A. Bisson. 1998. Function and distribution of large woody debris Pacific coastal streams and rivers. *in* Naiman, R. J. and R. E. Bilby (eds.). River ecology and management: Lessons from the Pacific coastal ecoregion. Springer-Verlag, New York.
- Bisson, P. A. and R. E. Bilby. 1998 .Organic matter and trophic dynamics. *in* Naiman, R. J. and R. E. Bilby (eds.). River ecology and management: Lessons from the Pacific coastal ecoregion. Springer-Verlag, New York.
- McClain, M. E., R. E. Bilby, and F. J. Triska. 1998. Nutrient cycles and responses disturbance. *in* Naiman, R. J. and R. E. Bilby (eds.). River ecology and management: Lessons from the Pacific coastal ecoregion. Springer-Verlag, New York.
- Cederholm, C. J., R. E. Bilby, P. A. Bisson, B. F. Fransen, W. Scarlett, and J. W. Ward. 1997. Response of coho salmon and steelhead to the placement of large woody debris in a coastal Washington stream. *N. Amer. J. Fish. Mgmt.* 17: 947-963.
- Bisson, P. A., G. H. Reeves, R. E. Bilby, and R. J. Naiman. 1997. Watershed management and Pacific salmon: desired future conditions *in* D. Stouder, P. Bisson, and R. Naiman (eds.). Pacific salmon and their ecosystems. Island Press, New York.
- Bilby, R. E., B. R. Fransen, and P. A. Bisson. 1996. Incorporation of nitrogen and carbon from spawning coho salmon into the trophic system of small streams: evidence from stable isotopes. *Can. J. Fish. Aquat. Sci.*53: 164-173.
- Fetherston, K. L., R. J. Naiman, and R. E. Bilby. 1995. Large woody debris, physical process, and riparian forest development in montane river networks of the Pacific Northwest. *Geomorphology* 13:133-144.

- Bilby, R. E., B. R. Fransen, and P. A. Bisson. 1994. Role of coho salmon carcasses in maintaining stream productivity. Pg. 160–171 in M. L. Keefe (ed.), Proceedings of the 1994 northeast Pacific Chinook and coho salmon workshop. Oregon Chapter, American Fisheries Society, Corvallis, Oregon.
- Bilby, R. E. 1993. Water quality monitoring in Washington's Timber/Fish/Wildlife program. Environ. Monit. and Assess. 26:249-262.
- Bisson, P. A., G. G. Ice, C. J. Perrin, and R. E. Bilby. 1992. Effects of forest fertilization on water quality and aquatic resources in the Douglas fir region. Pg 179–193 in H. N. Chappel, G. F. Weetman, and R. E. Miller (eds.), Forest fertilization: sustaining and improving nutrition and growth of western forests. Inst. of For. Resour. Contrib. No. 73. College of Forest Resources, University of Washington, Seattle, Washington. Conference. University of Washington, Seattle, Washington.
- Bilby, R. E. and P. A. Bisson. 1992. Relative contribution of allochthonous and autochthonous organic matter to the trophic support of fish populations in clear-cut and old-growth forested headwater streams. Can. J. Fish. Aquat. Sci. 49:540-551.
- Bilby, R. E. and J. W. Ward. 1991. Large woody debris characteristics and function in streams draining old-growth, clear-cut, and second-growth forests in southwestern Washington. Can. J. Fish. Aquat. Sci. 48:2499-2508.
- Bilby, R. E. and J. W. Ward. 1989. Changes in characteristics and function of woody debris with increasing stream size in western Washington. Trans. Am. Fish. Soc. 118:368-378.
- Bilby, R. E., K. Sullivan, and S. H. Duncan. 1989. The generation and fate of road-surface sediment in forested watersheds in southwestern Washington. For. Sci. 35:453-468.
- Bilby, R. E. and L. J. Wasserman. 1989. Forest practices and riparian management in Washington state: Data based regulation development. in R. E. Gresswell, B. A. Barton and J. L. Kershner (eds.) Practical approaches to riparian management. U. S. Bureau of Land Management, BLM-MT-PT-89-001-4351, Billings, MT.
- Bilby, R. E. and P. A. Bisson. 1988. Relative importance of allochthonous and autochthonous carbon sources as factors limiting coho salmon production in streams. Pg. 123–135. in B. G. Shepard (ed.), Proc. of 1988 northeast Pacific Chinook and coho salmon workshop. American Fisheries Society, Bellingham, Washington.
- Bilby, R. E. 1988. Interaction of aquatic and terrestrial systems. in K. J. Raedeke (ed.), Streamside management: Riparian wildlife and forestry interactions. Inst. of Forest Resour. Contrib. No. 59. U. of Wash., Seattle Washington.
- Bisson, P. A., R. E. Bilby, M. D. Bryant, C. A. Dolloff, G. B. Grette, R. A. House, M. L. Murphy, K. V. Koski, and J. R. Sedell. 1987. Large woody debris in forested streams in the Pacific northwest: Past, present, and future. in E. O. Salo and T. W. Cundy (eds.), Streamside management: Forestry and fisheries interactions. Inst. Forest Resour., Contrib No. 57, U. of Wash., Seattle, Washington.
- Bilby, R. E. and P. A. Bisson. 1987. Emigration and production of coho salmon (*Oncorhynchus kisutch*) stocked in streams draining old-growth and clear-cut watersheds. Can. J. Fish. Aquat. Sci. 44:1397-1407.
- Beschta, R. L., R. E. Bilby, G. W. Brown, T. D. Hofstra and L. B. Holtby. 1987. Stream temperature and aquatic habitat: Fisheries and forestry interactions. in E. O. Salo and T. W. Cundy (eds.), Streamside management: Forestry and fisheries interactions. Inst. Forest Resour., Contrib. No. 57, U. of Wash., Seattle, Washington.

- Duncan, S. H., R. E. Bilby, J. W. Ward, and J. T. Heffner. 1987. Transport of road surface sediment through ephemeral stream channels. *Water Resour. Bull.* 23:113–119.
- Bilby, R. E. 1985. Contributions of road-surface sediment to a western Washington stream. *For. Sci.* 31:827-838.
- Bilby, R. E. 1984. Characteristics and frequency of cool-water areas in a western Washington stream. *J. Freshwat. Ecol.* 2:593-602.
- Bilby, R. E. 1984. Post-logging removal of woody debris may affect stream channel stability. *J. For.* 82:609-613.
- Bisson, P. A. and R. E. Bilby. 1982. Avoidance of suspended sediment by juvenile coho salmon. *North Amer. J. Fish. Mgmt.* 4:371-374.
- Likens, G. E. and R. E. Bilby. 1982. Development, maintenance and role of organic debris dams in streams. Pg. 122–128. *in* Sediment budgets and routing in forested drainage basins. F. J. Swanson, R. J. Janda, T. Dunne, and R. N. Swanston eds. USDA For. Ser., Gen. Tech. Rep. PNW-141.
- Bilby, R. E. 1981. Role of organic debris dams in regulating the export of dissolved and particulate matter from a forested watershed. *Ecology* 62:1234–1243.
- Bilby, R. E. and G. E. Likens. 1980. Importance of organic debris dams in the structure and function of stream ecosystems. *Ecology* 61:1107-1113.
- Bilby, R. E. 1979. The function and distribution of organic debris dams in forest stream ecosystems. Ph.D. Thesis. Cornell University, Ithaca, New York.
- Bilby, R. E. and G. E. Likens. 1979. Effects of hydrological fluctuations on the transport of fine particulate organic carbon in a small stream. *Limnol. Oceanogr.* 24:69–76.
- Bilby, R. E. 1977. Effects of a spate on the macrophyte vegetation of a stream pool. *Hydrobiologia* 56:109-112.

### Technical Reports

- Fransen, B. R., P. A. Bisson, J. W. Ward, and R. E. Bilby. 1993. Physical and biological constraints on summer rearing of juvenile coho salmon (*Oncorhynchus kisutch*) in small western Washington streams. Proc. 1992 coho salmon workshop. Canadian Ministry Fish. and Oceans. Naniamo, B.C.
- Bilby, R. E. and P. A. Bisson. 1991. Enhancing fisheries resources through active management of riparian areas. *in* B. White and I. Guthrie (eds.), Proceedings of the 15th Northeast Pacific Pink and Chum Salmon Workshop. Pacific Salmon Commission, Vancouver, B.C., Canada.
- Bilby, R. E. 1991. How good is wood? Habitat enhancement on Porter Creek. *The Fish Ladder* 1–4:5.
- Bilby, R. E. and L. J. Wasserman. 1990. The development of the Washington state riparian management regulations. *in* Forestry on the Frontier, Proc. 1989 Meeting, Society of American Foresters. Spokane, Washington.
- Bilby, R. E. 1989. Management of woody debris in streams: Opportunities and questions. *in* Forest industry cooperative research: What we know, what we need to know. NCASI Technical Bulletin No. 577.
- Sullivan, K., R. E. Bilby, S. H. Duncan, and P. A. Bisson. 1989. The Deschutes basin study: Effects of management on sediment, discharge, temperature, and fish habitat—An

- example of the benefits of environmental research. in Forest industry cooperative research: What we know, what we need to know. NCASI Technical Bulletin No. 577.
- Bilby, R. E. 1988. Management of woody debris in streams: Opportunities and questions. in Proc. 1988 West Coast Meeting, National Council for Air and Stream Improvement. NCASI Special Report N89-02. Portland, Oregon.
- Sullivan, K., S. H. Duncan, P. A. Bisson, J. T. Heffner, J. W. Ward, R. E. Bilby, and J. L. Nielsen. 1987. A summary report of the Deschutes basin: Sediment, flow, temperature, and fish habitat. Weyerhaeuser Company Tech. Rep. 044-5002.
- Bilby, R. E. 1986. Influence of stream size on function and characteristics of large organic debris. in Proc. West Coast Meeting, National Council for Air and Stream Improvement, May 7-8, 1986, Portland, Oregon.
- Bilby, R. E. and P. A. Bisson. 1985. Emigration and production of coho salmon (*Oncorhynchus kisutch*) stocked in streams draining old-growth and clear-cut watersheds. Weyerhaeuser Company Tech. Rep. 046-3405.
- Bisson, P. A., R. E. Bilby, J. L. Nielsen, J. T. Heffner, and J. W. Ward. 1984. Salmon enhancement in streams: Progress Report No. 2. Weyerhaeuser Company Tech. Rep. 050-5405-4.
- Duncan, S. H., R. E. Bilby, J. W. Ward, and J. T. Heffner. 1983. Delivery of fine sediment to fish-bearing streams through ephemeral tributaries. Weyerhaeuser Company Tech. Rep. 050-5402-7.
- Bilby, R. E. 1983. Summer thermal stratification in streams and its influence on coho salmon fry. Weyerhaeuser Company Tech. Rep. 050-5717-8.
- Bilby, R. E. 1983. Influence of suspended sediment from logging roads on stream biota. Weyerhaeuser Company Tech. Rep. 050-5405-5.
- Bilby, R. E. 1982. Fate of road surface sediment in stream systems. Weyerhaeuser Company Tech. Rep. 050-5402-2.
- Bisson, P. A., and R. E. Bilby. 1982. Juvenile coho salmon avoidance of suspended sediment from logging roads. Weyerhaeuser Company Tech. Rep. 050-5402-4.
- Bilby, R. E. 1981. Movement of woody debris by streams and development of preliminary debris management guidelines. Weyerhaeuser Company Tech. Rep. 050-5717-3.
- Bilby, R. E. 1981. The influence of streamside vegetation removal on stream temperature and stream biota: A literature review and problem analysis. Weyerhaeuser Company Tech. Rep. 050-5717-2.