

Chapter 9

Literature Cited



9. Literature Cited

- Achord, S., J.R. Harmon, D.M. Marsh, B.P. Sandford, K.W. McIntyre, K.L. Thomas,
 N.N. Pasch, and G.M. Mathews. 1992. Research Related to Transportation of
 Juvenile Salmonids on the Columbia and Snake Rivers, 1991. NOAA National
 Marine Fisheries Service Report to the U.S. Army Corps of Engineers. NMFS.
 Seattle, Washington.
- Ackerman, S.M. 1994. "American White Pelicans Nest Successfully at Crescent Island, Washington." *Washington Birds*. 3:44-49.
- Adams, N.S., D. Rondorf, S. Evans, J. Kelly, and R. Perry. 1997. Behavior of Radiotagged Juvenile Chinook Salmon and Steelhead in the Forebay of Lower Granite Dam as Determined from Fixed-site Receiving Stations. Pages 4-1 through 4-66. *In:* N. Adams, D. Rondorf, E. Kofoot, M. Banach, and M. Tuell. Migrational Characteristics of Juvenile Chinook Salmon and Steelhead in the Forebay of Lower Granite Dam Relative to the 1996 Surface Bypass Collector Tests. Report by U.S. Geological Survey and Nez Perce Tribe of Idaho. Prepared for U.S. Army Corps of Engineers, Project No. E-86930151.
- Adams, N.S., and D.W. Rondorf. 1999. Migrational Characteristics of Juvenile Chinook Salmon and Steelhead in the Forebay of Lower Granite Dam Relative to the 1998 Surface Bypass Collector Tests. Draft Annual Report for 1998. Contract No. E 86930151. Prepared for U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington. 166 pages.
- Adams, N.S., and D.W. Rondorf. 1998. Migrational Characteristics of Juvenile Chinook Salmon and Steelhead in the Forebay of Lower Granite Dam Relative to the 1998 Surface Bypass Collector Tests. Preliminary Data Summary Report for Summer 1998. Prepared for U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington. July 1998.
- AEI (Agricultural Enterprises, Inc.). 1999. Regional Economic Impact Models for the Lower Snake River Juvenile Salmon Migration Feasibility Study. Masonville, Colorado.
- Alabaster, J.S., and R. Lloyd. 1982. Finely Divided Soils. *In:* Water Quality Criteria for Freshwater Fish, 2nd Edition. Food and Agricultural Organization of the United Nations. Butterworth, Boston.

- Anatek Laboratories. 1997. Lower Snake River Feasibility Study: Sediment Quality Study Analytical Results. Moscow, Idaho.
- Andelman, S.J., and A. Stock. 1994. Management, Research, and Monitoring Priorities for the Conservation of Neotropical Migratory Landbirds that Breed in Washington State. Washington Natural Heritage Program. Washington Department of Natural Resources, Olympia, Washington. 25 pages.
- Anderson, J.J. 1998. Decadal Scale Climate Patterns and Salmon Survival Indicators, Interactions, and Implications. NOAA-NMFS-NWFSC TM-29: Estuarine and Ocean Survival of Northeastern Pacific Salmon. School of Fisheries, University of Washington. Seattle, Washington.
- Anderson Perry (Anderson Perry and Associates). 1991. Investigation of Pumping Facilities, Lower Snake River. Prepared for U.S. Army Corps of Engineers, Walla Walla Dixtrict, Walla Walla, Washington.
- Anthony, R.G., R.L. Knight, G.T. Allen, B.R. McClelland, and J.I. Hodges. 1982. Habitat Use by Nesting and Roosting Bald Eagles in the Pacific Northwest. Transactions of the North American Wildlife Natural Resources Conference. 47:332-342.
- Arnsberg, B.D., and D.P. Statler. 1996. Assessing Summer and Fall Chinook Salmon Restoration in the Upper Clearwater River and Principal Tributaries. Annual Report by the Nez Perce Tribe, Department of Fisheries Resource Management, Contract DE-BI79-94BL12873. Prepared for the Bonneville Power Administration, Portland, Oregon.
- Asherin, D.A., and J. J. Claar. 1976. Volume 3A Inventory of Riparian Habitats and Associated Wildlife Along the Columbia and Snake Rivers. Report to ACOE Wildlife Work Group. Idaho Cooperative Wildlife Research Unit, College of Forestry, Wildlife and Range Sciences, University of Idaho. 556 pages.
- Backman, T.W.H., A.F. Evans, and M.A. Hawbecker. 1997. Symptoms of Gas Bubble Trauma Induced in Salmon (*Oncorhynchus* spp.) by Total Dissolved Gas Supersaturation of the Snake and Columbia Rivers, USA. Columbia River Inter-Tribal Fish Commission, Portland, Oregon. Report Prepared for Bonneville Power Administration. Project No. 93-008-02, Tasks A.1 and J.1. 50 pages.
- Baker, V.R., R. Greely, P.D. Komar, D.A. Swanson, and R.B. Waitt, Jr. 1987. Columbia and Snake River Plains. *In:* W.L. Graf (ed.) Geomorphic Systems of North America. Geological Society of America, Centennial Special, Vol. 2, Boulder, Colorado, pages 403-468.
- Barnes, R.S.K. 1980. The Unity and Diversity of Aquatic Systems. Pages 5-23. *In:* Barnes, R.S.K. and K.H. Mann (eds). Fundamentals of Aquatic Ecosystems. Blackwell Scientific Publications, Oxford, England, United Kingdom.
- Battelle. 1999. Unpublished Geographic Information System Data Provided to U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington.

9-2 Literature Cited **February 2002**

- Beamesderfer, R.C.P., H.A. Schaller, M.P. Zimmerman, C.P. Petrosky, O.P. Langness, and L. LaVoy. 1998. Spawner-recruit data for Spring and Summer Chinook Salmon Populations in Idaho, Oregon, and Washington. Section 2, Chapter 1 *In:* Marmorek, D.R. and C.N. Peters (eds). 1998. Plan for Analyzing and Testing Hypotheses (PATH): Retrospective and Prospective Analyses of Spring/Summer Chinook Reviewed in FY 1997. Compiled and Edited by ESSA Technologies Ltd. Vancouver, B.C.
- Beamesderfer, R.C., B.E. Rieman, L.J. Bledsoe, and S. Vigg. 1990. "Management Implications of a Model of Predation by a Resident Fish on Juvenile Salmonids Migrating through a Columbia River Reservoir." *North American Journal of Fisheries Management*. 10: 290-304.
- Bell, M. 1990. Fisheries Handbook of Engineering Requirements and Biological Criteria. U.S. Army Corps of Engineers, North Pacific Division, Portland, Oregon.
- Bennett, D.H., and G. Naughton. 1999. Predator Abundance and Salmonid Prey Consumption in Tailrace and Forebay of Lower Granite Dam. Completion Report to U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington., Project 14-45-0009-1579. 131 pages.
- Bennett, D.H., H.K. Malcolm, and M.A. Madsen. 1997. Thermal and Velocity Characteristics of the Lower Snake River Reservoir, Washington, as a Result of Regulated Upstream Water Releases. Final Completion Report (Project 14-16-009-1579).
- Bennett, D.H., M.A. Madsen, S.M. Angela, T. Cichosz, T.J. Dresser, M. Davis, and S.R. Chipps. 1997. Draft Fish Interactions in Lower Granite Reservoir: Idaho-Washington. Completion Report submitted to the Army Corps of Engineers, Walla Walla, Washington.
- Bennett, D.H., T.J. Dresser, Jr., and M.A. Madsen. 1994. Evaluation of the Effects of the 1992 Test Drawdown on the Fish Communities in Lower Granite and Little Goose Reservoirs, Washington. Appendix P. Prepared for the U.S. Army Corps of Engineers, Walla, Walla District by the University of Idaho, Department of Fish and Wildlife Resources.
- Bennett, D.H., J.A. Chandler, and G. Chandler. 1991. Lower Granite Reservoir In-water Disposal Test: Results of the Fishery, Benthic and Habitat Monitoring Program—Year 2 (1989). Completion Report. U.S. Army Corps of Engineers, Walla Walla, Washington.
- Bennett, D.H., L.K. Dunsmoor, and J.A. Chandler. 1988. Fish and Benthic Community Abundance at Proposed In-Water Disposal Sites, Lower Granite Reservoir (1987). U.S. Army Corps of Engineers. Walla Walla, Washington.
- Bennett, D.H., and I.C. Shrier. 1986. Effects of Sediment Dredging and In-Water Disposal on Fishes in Lower Granite Reservoir, Idaho-Washington. U.S. Army Corps of Engineers. Walla Walla, Washington.

- Bennett, D.H., P.M. Bratovich, W. Knox, D. Palmer, and H. Hansel. 1983. Status of the Warmwater Fishery and the Potential of Improving Warmwater Fish Habitat in the Lower Snake River Reservoirs. Final Report. U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington.
- Berggren, T.J., and M.J. Filardo. 1993. An Analysis of Variables Influencing the Migration of Juvenile Salmonids in the Columbia River Basin. North American Journal of Fisheries Management 13(1):48-63.
- Bjornn, T.C., K.R. Tolotti, J.P. Hunt, P.J. Keniry, R.R. Ringe, and C.A. Peery. 1998. Passage of Chinook Salmon through the Lower Snake River and Distribution into the Tributaries, 1991-1993. Part I of Final Report for Migration of Adult Chinook Salmon and Steelhead past Dams and through Reservoirs in the Lower Snake River and into Tributaries. Prepared for U.S. Army Corps of Engineers, Walla Walla, Washington and Bonneville Power Administration, Portland, Oregon. 95 pages.
- Bjornn, L. Stuehrenberg, R. Ringe, K. Tolotti, P. Keniry, C. Peery, M. Feeley,
 T. Reischel, and B. Hastings. 1997. Adult Chinook Salmon and Steelhead
 Migration Studies in the Columbia and Snake Rivers. Abstracts for the 1997
 Annual Research Review Anadromous Fish Evaluation Program, October, 1997.
 U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington and Portland District, Portland, Oregon.
- Bjornn, T.C., J.P. Hunt, K.R. Tolotti, P.J. Keniry, and R.R. Ringe. 1994. Migration of Adult Chinook Salmon and Steelhead Past Dams and through Reservoirs in the Lower Snake River and Into Tributaries—1992. Report prepared for U.S. Army Corps of Engineers, Walla Walla District, and U.S. Department of Energy, Bonneville Power Administration, Portland, Oregon. 128 pages.
- Bjornn, T.C., J.P. Hunt, K.R. Tolotti, P.J. Keniry, and R.R. Ringe. 1993. Migration of Adult Chinook Salmon and Steelhead Past Dams and through Reservoirs in the Lower Snake River and into Tributaries—1992. Technical Report 93-1 for the U.S. Army Corps of Engineers, Walla Walla District and Bonneville Power Administration by the Idaho Cooperative Fish and Wildlife Research Unit, University of Idaho, Moscow, Idaho.
- Bjornn, T.C., and C.A. Peery. 1992. A Review of Literature Related to Movements of Adults Salmon and Steelhead Past Dams and through Reservoirs in the Lower Snake River, Technical Report 92-1. Prepared by U.S. Fish and Wildlife Service, Idaho Cooperative Fish and Wildlife Research Unit, University of Idaho, for U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington.
- Bjornn, T.C., R.R. Ringe, K.R. Tolotti, P.J. Keniry, and J.P. Hunt. 1992. Evaluation of Migration Rates and Passage of Adult Chinook Salmon and Steelhead in the Snake River and Tributaries Using Radio Telemetry and Fish Tagging—1991. Technical Report 92-2. Idaho Cooperative Fish and Wildlife Research Unit, University of Idaho, Moscow, Idaho.

9-4 Literature Cited **February 2002**

- Bjornn, T.C., D.R. Craddock, and D.R. Corley. 1968. Migration and Survival of Redfish Lake, Idaho, Sockeye Salmon, *Oncorhynchus nerka*. *In*: April 5, 1991, 56 Federal Register 14064.
- Blahm, T.H., R.J. McConnell, and G.R. Snyder. 1975. Effect of Gas Supersaturated Columbia River Water on the Survival of Juvenile Chinook and Coho Salmon. NOAA Technical Report NMFS SSRF-688. 9 pages.
- Blakenship, H.L., and G.W. Mendel (eds.). 1997. Upstream Passage, Spawning, and Stock Identification of Fall Chinook in the Snake River, 1992 and 1993. Final Report. Prepared for U.S. Department of Energy, Bonneville Power Administration, Environment, Fish, and Wildlife. Project No. 92-046, Contract No. DE-BI79-92BP60415. May 1997.
- BOR (U.S. Bureau of Reclamation). 1999. Snake River Flow Augmentation Impact Analysis Appendix. Prepared for the U.S. Army Corps of Engineers Walla Walla District's Lower Snake River Juvenile Salmon Migration Feasibility Study and Environmental Impact Statement.
- BOR. 1993. Continued Development of the Columbia Basin Project, Washington Supplement to the Draft Environmental Impact Statement. U.S. Department of the Interior, Bureau of Reclamation, Pacific Northwest Region, Boise. Idaho.
- BOR. 1989. Draft Environmental Impact Statement, Continued Development of the Columbia Basin Project, Washington. DES89-19. U.S. Department of the Interior, Bureau of Reclamation, Pacific Northwest Region. Boise, Idaho.
- BPA (Bonneville Power Administration), U.S. Army Corps of Engineers, and BOR. 1999. Multi-Species Biological Assessment of the Federal Columbia River Power System.
- BPA, Bureau of Indian Affairs, and Nez Perce Tribe. 1997. Nez Perce Tribal Hatchery Program. Final Environmental Impact Statement. DOE/EIS-0213.
- BPA. 1997. 1997 Fast Facts. Accessed at: http://www.bpa.gov.
- BPA. 1995. Snake River Sockeye Salmon Sawtooth Valley Project Conservation and Rebuilding Program, Supplemental EIS. Portland, Oregon.
- BPA, Corps, and U.S. Bureau of Reclamation (BOR). 1995. Final Columbia River System Operation Review Environmental Impact Statement. November 1995.
- BPA. 1994. Snake River Sockeye Salmon Sawtooth Valley Project Conservation and Rebuilding Program, Final EIS. Portland, Oregon.
- BPA. 1993. 1993 Pacific Northwest Loads and Resources Study. U.S. Department of Energy. Bonneville Power Administration. Portland, Oregon.
- Bouck, G.R. 1980. Etiology of Gas Bubble Disease. Transactions of the American Fisheries Society, 109(6): 703-707.

- Bowie, G.L., W.B. Mills, D.B. Porcella, C.L. Campbell, J.P. Pagenkopf, G.L. Rupp, K.M. Johnson, P.W.H. Chan, S.A. Gherini, and C.E. Chamberlin. 1985. Rates, Constants, and Kinetics Formulations in Surface Water Quality Modeling (Second Edition). USEPA Environmental Research Laboratory, Athens, Georgia. EPA/600/3-85/040.
- Brammer, J.A. 1991. The Effects of Supersaturation of Dissolved Gases on Aquatic Invertebrates of the Bighorn River Downstream of Yellowtail Afterbay Dam, prepared for Montana State University. Bozeman, Montana. March 1991.
- Brannon, E.L., R.P. Whitman, and T.P. Quinn. 1981. Report on the Influence of Suspended Volcanic Ash on the Homing Behavior of Adult Chinook Salmon (*Oncorhynchus tshawytscha*). Final Report. Washington Research Center. 30 pages.
- Brinson, M.M., B.L. Swift, R.C. Plantico, and J.S. Barclay. 1981. Riparian Ecosystems: Their Ecology and Status. FWS/OBS-81/17. Washington, D.C.: U.S. Fish and Wildlife Service.
- Brown, K. 2001. Outdoor Recreation Planner. Bureau of Land Management, Prineville District. E-mail communication with M. Dadswell, Foster Wheeler Environmental on July 10, 2001.
- Brown, C.R. 1990. Avian Use of Native and Exotic Riparian Habitats on the Snake River, Idaho. Master's Thesis. Colorado State University, Ft. Collins, Colorado. 60 pages.
- Buck, D.H. 1956. Effects of Turbidity on Fish and Fishing. Transactions of the North American Wildlife Conference. 21: 249-261.
- Busacca, A.J., D.K. McCool, R.I. Papendick, and D.L. Young. 1985. Dynamic Impacts of Erosion Processes on Productivity of Soils in the Palouse. *In:* Proceedings of the National Symposium on Erosion and Soil Productivity, 10-11 December 1984, New Orleans, Louisiana, American Society of Civil Engineers. Pages 152-169.
- Busby, P.J., T.C. Wainwright, G.J. Bryant, L.J. Lierheimer, R.S. Waples, F.W. Waknitz, and I.V. Lagomarsino. 1996. Status Review of West Coast Steelhead from Washington, Idaho, Oregon, and California. U.S. Department of Commerce, NOAA Technical Memorandum. NMFS-NWFSC-27. 261 pages.
- Buskirk, S.W., L.F. Ruggiero, and C.J. Krebs. 1999. Habitat Fragmentation and Interspecific Competition: Implications for Lynx Conservation. Chapter 4. *In:* The Scientific Basis for Lynx Conservation (Draft). USDA Forest Service General Technical Report RMRS-GTR-30.
- Cachnauer, T.G. 1995. Gas Bubble Trauma Monitoring in the Clearwater River Drainage, Idaho, 1995. Idaho Department of Fish and Game, Lewiston, Idaho.

9-6 Literature Cited February 2002

- Cada, G.F., M.D. Deacon, S.V. Mitz, and M.S. Bevelhimer. 1997. Effects of Water Velocity on the Survival of Downstream-Migrating Juvenile Salmon and Steelhead: A Review with Emphasis on the Columbia River Basin. *In:* Reviews in Fisheries Science, 5(2): 131-183 (1997).
- Callahan, M.A., M.W. Slimack, N.W. Gabel, I.P. May, C.F. Fowler, J.R. Freed, P. Jennings, R.L. Durfee, F.C. Whitmore, B. Maestri, W.R. Mabey, B.R. Holt, and C. Gould. 1979. Water-Related Environmental Fate of 129 Priority Pollutants. U.S. Environmental Protection Agency Publication. EPA-440/4-79-029a.
- Calow, P., and G.E. Petts. 1992. The Rivers Handbook: Hydrological and Ecological Principles (Vol. 1). Blackwell Scientific Publications, Oxford, England.
- Carlson, C.D., and G.M. Matthews. 1992. Fish Transportation Studies, Priest Rapids Dam, 1991. Public Utility District No. 2, Grant County, Ephrata, Washington.
- Casavant, K.L., and N.S. Lee. 1998. Grain Receipts at Columbia River Grain Terminals: 1980-81 to 1996-97. Eastern Washington Intermodal Transportation Study (EWITS) Working Paper #9. January 1998.
- Cascade Analytical, Inc. 1997. Unpublished Soil Nutrient Analysis. Submitted to HDR Engineering for the Walla Walla District, Walla Walla, Washington.
- Cassidy, K.M, C.E. Grue, M.R. Smith, and K.M. Dvornich, eds. 1997. Washington State Gap Analysis—Final Report. Volumes 1-5. Washington Cooperative Fish and Wildlife Research Unit, University of Washington, Seattle, Washington.
- Caswell, H. 1989. Matrix Population Models. Sinauer: Sunderlaned, Massachusetts.
- CBFWA (Columbia Basin Fish and Wildlife Authority). 1991. Integrated System Plan for Salmon and Steelhead Production in the Columbia River Basin. Portland, Oregon. 527 pages.
- CCREM (Canadian Council of Resource and Environment Ministers). 1987. Canadian water quality guidelines. Canadian Council of Resource and Environment Ministers, Ottawa, Ontario.
- Ceballos, J.R., S.W. Pettit, and J.L. McKern. 1991. Fish Transportation Oversight Team Annual Report—FY 1990. Transport Operations on the Snake and Columbia Rivers. NOAA Technical Memorandum NMFS F/NWR-29. National Oceanic and Atmospheric Administration, National Marine Fisheries Service. Portland, Oregon.
- Ceballos, J.R., S.W. Pettit, and J.L. McKern. 1992. NOAA Technical Memorandum NMFS F/NWR-31, Fish Transportation Oversight Team Annual Report—FY 1991. Transport Operations on the Snake and Columbia Rivers. July 1992.
- CH2M HILL. 1999. Ambient Sediment Monitoring Program Report. Potlatch Corporation Lewiston Complex. Prepared for Idaho Pulp and Paperboard Division.

- Chandler, J.A. 1993. Consumption Rates of Estimated Total Loss of Juvenile Salmonids by Northern Squawfish in Lower Granite Reservoir, Washington. M.S. Thesis, University of Idaho, Moscow, Idaho. 88 pages.
- Chapman, D., C. Carlson, D. Weitkamp, G. Matthews, J. Stevenson, and M. Miller. 1997. "Homing in Sockeye and Chinook Salmon Transported around Part of Their Smolt Migration Route in the Columbia River." *North American Journal of Fisheries Management*. 17:101-113.
- Chapman, D., A. Giorgi, M. Hill, A. Maule, S. McCutcheon, D. Park, W. Platts, K. Pratt, J. Seeb, L. Seeb, and F. Utter. 1991. Status of Snake River Chinook Salmon. Technical Report Submitted to Pacific Northwest Utilities Conference Committee. Don Chapman Consultants, Inc. Boise, Idaho.
- Chapman, D.W., W.S. Platts, D. Park, and M. Hill. 1990. Status of Snake River Sockeye Salmon. Final Report for Pacific Northwest Utilities Conference Committee. Don Chapman Consultants, Inc. Boise, Idaho. 90 pages.
- Chapman, D.W., and K.P. McLeod. 1987. Development of Criteria for Fine Sediment in the Northern Rockies Ecoregion. Final Report for EPA Region 10, Work Assignment 273. Battelle Columbus Laboratories. EPA 910/987162. 279 pages.
- Christensen, G.C. 1970. The Chukar Partridge: Its Introduction, Life History, and Management. Nevada Department of Fish and Game Biological Bulletin No. 4. 82 pages.
- Christy, R.E., and S.D. West. 1993. Biology of Bats in Douglas-fir Forests. General Technical Report PNW-GTR-308, U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 28 pages. *In:* Huff, M.H., R.M. Holthausen, K.B. Aubry (Technical Coordinators). Biology and Management of Old-Growth Forests.
- Close, D.A., M. Fitzpatrick, H. Li, B. Parker, D. Hatch, and G. James. 1995. Status Report of the Pacific Lamprey (*Lampetra Tridentata*) in the Columbia River Basin. Prepared for U.S. Department of Energy, Bonneville Power Administration, and Environment, Fish and Wildlife, Portland, Oregon. July 1995.
- Cohen, F.S. 1982. Handbook of Federal Indian Law. 1982 Edition. Charlottesville, Virginia: The Michie Company.
- Collis, K., S. Adamany, D.D. Roby, D.P. Craig, and D.E. Lyons. 1999. Avian Predation on Juvenile Salmonids in the Lower Columbia River 1998 Draft Annual Report. Columbia River Inter-Tribal Fish Commission and Oregon Cooperative Fish and Wildlife Research Unit. Prepared for Bonneville Power Administration and U.S. Army Corps of Engineers. September 1999.

9-8 Literature Cited February 2002

- Connor, W., H. Burge, R. Waitt, and T. Andersen. 1998. Early Life History and Survival of Snake River Natural Subyearling Fall Chinook Salmon in 1996. *In:* Fall Chinook Salmon Survival and Supplementation Studies in the Snake River and Lower Snake River Reservoirs, 1996. J.G. Williams and T.C. Bjornn (eds.). Prepared for U.S. Department of Energy and Bonneville Power Administration.
- Connor, W.P. et al. Undated. Early Life History and Survival of Snake River Natural Subyearling Fall Chinook Salmon in 1995. Prepared for U.S. Department of Energy and Bonneville Power Administration.
- Connor, W., H. Burge, S. Smith, D. Rondorf, and K. Tiffan. 1997. Post-Release Attributes and Survival of Natural and Lyons Ferry Hatchery Subyearling Fall Chinook Salmonid Released in the Snake River. *In:* J. Williams and T. Bjornn (eds.). Fall Chinook Salmon Survival and Supplementation Studies in the Snake River and Lower Snake River, Annual Report 1995.
- Connor, W., H. Burge, R. Nelle, C. Eaton, and R. Waitt. 1996. Rearing and Emigration of Naturally Produced Snake River Fall Chinook Salmon Juveniles. *In:* D. Rondorf and K. Tiffan, 1994 Annual Progress Report to BPA. Pages 44-63.
- Connor, W.P. Draft. Ecology of Wild Subyearling Spring/Summer and Fall Chinook Salmon in the Snake River. Ph.D. Dissertation. University of Idaho, Moscow, Idaho.
- Cooper, R., and T. Johnson. 1992. Trends in Steelhead Abundance in Washington and along the Pacific Coast of North America. Washington Department of Wildlife, Fish Management Division, Report 92-20. 90 pages.
- Cornacchia, J.W., and J.E. Colt. 1984. "The Effects of Dissolved Gas Supersaturation on Larval Striped Bass *Morone saxatilis* (Walbaum)." Blackwell Science, Ltd., *Journal of Fish Diseases*. 7(1): 15-27.
- Coronado-Hernandez, M.C. 1995. Spatial and Temporal Factors Affecting Survival of Hatchery-reared Chinook, Coho, and Steelhead in the Pacific Northwest. Ph.D. Dissertation, University of Washington, Seattle, Washington. 235 pages.
- Corps. (U.S. Army Corps of Engineers). 2001. Record of Consultation and Statement of Decision. May 15, 2001.
- Corps. Sediment Quality Data, Lower Snake and Clearwater Rivers. Unpublished. Walla Walla District, Walla Walla, Washington. June 2000.
- Corps. 2000. Fixed-Location Hydroacoustic Evaluation of the Prototype Surface
 Bypass and Collector at Lower Granite Dam in 2000 Draft Final Report.
 Delivery Order 0013. U.S. Army Corps of Engineers, Walla Walla District,
 Walla Walla, Washington. November 1, 2000. 137 pages.
- Corps. 1999a. Fish Passage Plan for U.S. Army Corps of Engineers Projects. North Pacific Division, Portland District, Portland, Oregon. February 1999.
- Corps. 1999b. Wildlife Observations Database. Unpublished internal record of all wildlife observations.

- Corps. 1999c. Pertinent Data. Walla Walla District Projects. Accessed at http://www.nww.usace.army.mil/html/pub/pertdata/pdata.htm.
- Corps. 1999d. Juvenile Fish Transportation Program 1998 Annual Report. 112 pages plus appendices. Walla Walla District, Walla Walla, Washington.
- Corps. 1999e. Lower Snake River Water Quality and Post-Drawdown Temperature and Biological Productivity Modeling Study, Volumes 1 and 2. R-16031.011. Prepared by Normandeau Associates, Inc. Bedford, New Hampshire. May 1999.
- Corps and D. Bennett. 1999f. Draft Resident Fish Appendix, Lower Snake River Juvenile Salmon Migration Feasibility Report/Environmental Impact Statement. Prepared by Normandeau Associates, Inc. Bedford, New Hampshire.
- Corps. 1998a. Lower Snake River Juvenile Salmon Migration Feasibility Study: Lower Snake River Sedimentation. Draft Executive Summary.
- Corps. 1998b. 1997 Annual Fish Passage Report, Columbia River Projects and Snake River Projects, Oregon and Washington.
- Corps. 1998c. Lower Snake River Juvenile Salmon Migration Feasibility Study Natural River Drawdown Impacts on Recreation: Lower Snake River Recreation Areas.
- Corps. 1998d. Activity Distribution Report. Walla Walla District, Walla Walla, Washington. Accessed at http://www.npw.usace.army.mil/.
- Corps. 1998e. Monthly Visitation Report. Walla Walla District, Walla Walla, Washington.
- Corps. 1998f. Economic Analysis of Water Supply Impacts. November 30, 1998. Chapter 10.
- Corps. 1998g. Survey of Farms Irrigated from Ice Harbor Reservoir (unpublished).
- Corps. 1997. 1996 Annual Fish Passage Report, Columbia River Projects and Snake River Projects, Oregon and Washington.
- Corps. 1996a. System Configuration Study—Phase II. Lower Snake River Juvenile Salmon Migration Feasibility Study—Interim Status Report. Walla Walla District, Walla Walla, Washington. December 1996.
- Corps. 1996b. Juvenile Fish Transportation Program—1996 Annual Report. Walla Walla District, Walla Walla, Washington, in cooperation with the Washington Department of Fish and Wildlife and the Oregon Department of Fish and Wildlife.
- Corps. 1996c. Portland and Walla Walla Districts, Portland, Oregon, and Walla Walla, Washington. DGAS Phase I Technical Report.
- Corps. 1995a. Record of Decision, Reservoir Regulation and Project Operation, 1995 and Future Years. North Pacific Division, Portland District, Portland, Oregon. March 1995.

- Corps. 1995b. Columbia River System Operation Review Final Environmental Impact Statement. Appendix K, Resident Fish. U.S. Army Corps of Engineers, North Pacific Division, Bonneville Power Administration, and U.S. Bureau of Reclamation.
- Corps. 1994. Regulatory Program Wetland Assessment. Unpublished Report. U.S. Army Corps of Engineers.
- Corps. 1993. Final Supplemental EIS—Interim Columbia and Snake River Flow Improvement Measures for Salmon. Walla Walla District, Walla Walla, Washington. March 1993.
- Corps. 1993. 1992 Reservoir Drawdown Test, Lower Granite and Little Goose Dams. Walla Walla District, Walla Walla, Washington.
- Corps. 1992. Columbia River Salmon Flow Measures Options Analysis. Walla Walla District, Walla Walla, Washington. January 1992.
- Corps. 1991. Special Report: Lower Snake River Fish and Wildlife Compensation: Wildlife Compensation Evaluation for the Lower Snake River Project. Walla Walla District, Walla Walla, Washington. 59 pages plus appendices.
- Corps. 1990. Mule and White-tailed Deer of the Lower Snake River Canyon in Southeast Washington, 1978-1988. Walla Walla District, Walla Walla, Washington. 30 pages.
- Corps. 1988. Canada Goose Production on Lake Wallula and the Lower Snake River, 1974-1987. U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington. 29 pages.
- Corps. 1985. Comprehensive Report of Juvenile Salmonid Transportation. U.S. Army Corps of Engineers, Walla Walla, Washington.
- Corps. 1983. Evaluations of Adult Fish Passage at Little Goose and Lower Granite Dams, 1981. Portland District. Portland, Oregon.
- Corps. 1976. Inventory of Riparian Habitats and Associated Wildlife along the Columbia and Snake Rivers-Volume 1, Summary Report. Walla Walla District, Walla Walla, Washington. 100 pages.
- Corps. 1975. Lower Snake River Fish and Wildlife Compensation Plan, Lower Snake River, Washington and Idaho-Special Report. Walla Walla District, Walla Walla, Washington. 42 pages.
- Corps and NMFS (U.S. Army Corps of Engineers and National Marine Fisheries Service). 1994. Draft Lower Snake River Biological Drawdown Test Environmental Impact Statement. April 1994.
- Corps, U.S. Army Corps of Engineers, U.S. Bureau of Reclamation, and Bonneville Power Administration). 1999. Biological Assessment for Effects of FCRPS Operations on Columbia Basin Bull Trout and Kootenai River White Sturgeon. Federal Columbia River Power System Project Operations. June 1999.

- Coues, E. 1893. Meriwether Lewis and William Clark, the History of the Lewis and Clark Expedition. Volume II. Elliot Coues (ed.). Unabridged reprint of 1893 edition. Dover Publications, Inc., New York City, New York.
- Coutant, C. 1999. Perspectives on Temperature in the Pacific Northwest's Fresh Waters. Pub. No. 4849. Prepared for the U.S. EPA, Region 10. Prepared by the Environmental Services Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Craig, J.A., and R.L. Hacker. 1940. History and Development of Columbia River Fisheries. U.S. Bureau of Fisheries Bulletin 49(30):1-216.
- CRFMP TAC (Columbia River Fish Management Plan Technical Advisory Committee). 1997. 1996 All-species Review, Columbia River Fish Management Plan. August 4, 1997. U.S. Fish and Wildlife Service, Vancouver, Washington. Technical Advisory Committee, *U.S. versus Oregon*.
- CRITFC (Columbia River Inter-tribal Fisheries Commission). 1995. Wy-Kan-Ush-Mi Wa-Kish-Wit Spirit of the Salmon: The Columbia River Anadromous Fish Restoration Plan of the Nez Perce, Umatilla, Warm Springs, and Yakama Tribes. Portland, Oregon.
- Crouse, D.T., L.B. Crowder, and H. Caswell. 1987. "A Stage-based Population Model of Loggerhead Sea Turtles and Implications for Conservation." *Ecology*. 68:1412-1423.
- Crowder, L.B., D.T. Crouse, S.S. Heppell, and T.H. Martin. 1994. "Predicting the Impact of Turtle Excluder Devices on Loggerhead Sea Turtle Populations." *Ecological Applications.* 4:437-445.
- Curet, T. 1993. Habitat Use, Food Habits and the Influence on Predation on Subyearling Chinook Salmon in Lower Granite and Little Goose Reservoirs, Washington. M.S. Thesis, University of Idaho, Moscow, Idaho. 44 pages.
- Dauble, D.D., R.P. Mueller, R.L. Johnson, W.V. Mavros, and C.S. Abernethy. 1999. Surveys of Fall Chinook Salmon Spawning Downstream of Lower Snake River Hydroelectric Projects Summary Report 1993-1998. Prepared for U.S. Army Corps of Engineers, Walla Walla District, and Pacific Northwest National Laboratory. January 1999.
- Dauble, D.D., and R. Mueller. 1993. Operational Measures Affecting the Survival of Upstream Migrant Adult Salmonids in the Columbia River Basin.
- Dauble, D.D., and D.G. Watson. 1990. Spawning and Abundance of Fall Chinook Salmon (*Oncorhynchus tshawytscha*) in the Hanford Reach of the Columbia River, 1948-1988. Battelle Memorial Institute, Pacific Northwest Laboratory. Richland, Washington. Rep. PNL-7289, UC-600.
- Dauble, D.D., T.L. Page, and R. William Hanf, Jr. 1989. "Spatial Distribution of Juvenile Salmonids in the Hanford Reach, Columbia River." *Fishery Bulletin*. U.S. 98:775-790.

- Dawley, E.M., L.G. Gilbreath, E.P. Nunnallee, and B.P. Sandford. 1998. Relative Survival of Juvenile Salmon Passing through the Spillway of The Dalles Dam, 1997. Report to the U.S. Army Corps of Engineers, Contract E9670020. 26 pages. (Available from the Northwest Fisheries Science Center, 2725 Montlake Boulevard East, Seattle, Washington 98112-2097).
- Dawley, E.M. 1986. Effect of 1985-86 Levels of Dissolved Gas on Salmonids in the Columbia River. Report to U.S. Army Corps of Engineers, Contract DACW57-85-F-0623. 31 pages. (Available from Northwest Fisheries Science Center, 2725 Montlake Boulevard East, Seattle, Washington 98112).
- Dell, M.B., M.W. Erho, and B.D. Leman. 1975. Occurrence of Gas Bubble Disease Symptoms on Fish in Mid-Columbia River Reservoirs. Public Utility Districts of Grant, Douglas, and Chelan Counties, Washington.
- DeHart, M. 1991. Fish Passage Center Annual Report, 1990. BPA Project No. 87-127. Fish Passage Center of the Columbia Basin Fish and Wildlife Authority. Portland, Oregon. May 1991.
- Dennis, B., P.L. Munholland, and J.M. Scott. 1991. "Estimation of Growth and Extinction Parameters for Endangered Species." *Ecological Monographs*. 61:115-143.
- DEQ (Department of Environmental Quality). 1995. Temperature. Final Issue Paper 1992-1994 Water Quality Standards Review. Oregon Department of Environmental Quality. Standards and Assessment Section. Portland, Oregon.
- Diplas, P., and Parker, G. 1985. Pollution of Gravel Spawning Grounds due to Fine Sediment. Project Report No. 240. St. Anthony Falls Hydraulic Laboratory, University of Minnesota. 145 pages.
- Doak, D., P. Kareiva, and B. Klapetka. 1994. "Modeling Population Viability for the Desert Tortoise in the Western Mojave Desert." *Ecological Applications*. 4:446-460.
- Donaldson, N.C. 1980. Soil Survey of Whitman County, Washington. USDA Soil Conservation Service.
- Downs, J.L., B.L. Tiller, M. Witter, and R. Mazaica. 1996. Monitoring and Mapping Selected Riparian Habitat along the Lower Snake River. Prepared for U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington, by Pacific Northwest National Laboratory, Richland, Washington. 74 pages.
- DREW (Drawdown Regional Economic Workshop) Anadromous Fish Workgroup. 1999. Andromous Fish Economic Analysis. Lower Snake River Juvenile Salmon Migration Feasibility Report/Environmental Impact Statement.
- DREW HIT (Hydropower Impact Team). 1999. Lower Snake River Juvenile Mitigation Feasibility Study, Technical Report on Hydropower Costs and Benefits. U.S. Army Corps of Engineers and Bonneville Power Administration, co-chairs. March 1999.

- DREW Regional Analysis Workgroup. 1999. Regional Economic Impact Models for the Lower Snake River Juvenile Salmon Migration Feasibility Study. Prepared for U.S. Army Corps of Engineers, Walla Walla District, by Agricultural Enterprises, Inc., Masonville, Colorado. June 15.
- DREW Social Analysis Workgroup. 1999. Social Analysis Report. Lower Snake River Juvenile Salmon Migration Feasibility Report/Environmental Impact Statement.
- DREW Transportation Workgroup. 1999. Transportation System Impacts Analysis Report. Lower Snake River Juvenile Salmon Migration Feasibility Report/Environmental Impact Statement.
- DREW Water Supply Workgroup. 1999. Economic Analysis of Water Supply Effects. Lower Snake River Juvenile Salmon Migration Feasibility Report/Environmental Impact Statement.
- Dumas, P.C. 1950. Habitat Distribution of Breeding Birds in Southeastern Washington. Condor 52:232-237.
- EA Engineering (EA Engineering Science and Technology). 1992. Holter and Hauser Reservoir Studies, Montana, 1990-1991. Analysis of Shoreline Spawning Surveys of Walleye, Yellow Perch, and Kokanee Salmon. Prepared for the Montana Power Company. Butte, Montana.
- Ebbert, J.C., and R.D. Roe. 1998. Soil Erosion in the Palouse River Basin: Indications of Improvement: U.S. Geological Survey Fact Sheet FS-069-98, on line at URL http://wa.water.usgs.gov/ccpt/pubs/fs.069-98.html.
- Ebbesmeyer, C.C., and R.M. Strickland. 1995. Oyster Condition and Climate: Evidence from Willipa Bay. Washington Sea Grant Program, University of Washington, Seattle, Washington. Publication WSG-MR 95-02. 11 pages.
- Ebel, W.J. 1997. Fish Passage Problems and Solutions—Major Passage Problems. *In:*E. Schweibert (ed.). Columbia River Salmon and Steelhead. American Fisheries Society Special Publication No. 10. Washington, D.C. Pages 33-39.
- Ebel, W.J., and H. Raymond. 1976. Effects of Atmospheric Gas Saturation on Salmon and Steelhead Trout of the Snake and Columbia Rivers. U.S. National Marine Fisheries Service Review 38(7):1-14.
- Ebel, W.J., H. Raymond, G. Monan, W. Farr, and G. Tanonaka. 1975. Effects of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead Trout of the Snake and Columbia Rivers. National Marine Fisheries Service, Northwest Fisheries Center. Seattle, Washington.
- Ebel, W.J. 1974. Snake River Runs of Salmon and Steelhead Trout: Collection and Transportation Experiments at Little Goose Dam, 1971-1974. National Marine Fisheries Service, Northwest Fisheries Center. Seattle, Washington. 3 pages.

- Ebel, W.J., R. Krcma, D. Park, H.L. Raymond, E.L. Slatick, E.M. Dawley, and G.A. Swan. 1974. Progress Report Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in Columbia and Snake Rivers, 1974. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. National Marine Fisheries Service. Seattle, Washington.
- Ebel, W.J., R.W. Krcma, and H.L. Raymond. 1973. Evaluation of Fish Protective Facilities at Little Goose Dam and Review of Other Studies Relating to Protection of Juvenile Salmonids in the Columbia and Snake Rivers. 1973. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. National Marine Fisheries Service, Seattle, Washington.
- Ebel, W.J., H.L. Raymond, C.W. Long, W.M. Marquette, R. Krcma, and D. Park. 1972.
 Evaluation of Fish Protective Facilities at Little Goose Dam and Review of
 Other Studies Relating to Protection of Juvenile Salmonids in Columbia and
 Snake Rivers, 1972. NOAA, National Marine Fisheries Service Report to U.S.
 Army Corps of Engineers. Seattle, Washington.
- Ebel, W.J., H.L. Raymond, C.W. Long, W.M. Marquette, R. Krcma, and D. Park. 1971. Fish-Protective Facilities at Little Goose Dam and Summaries of Other Studies Relating to the Various Measures Taken by the Corps of Engineers to Reduce Losses of Salmon and Steelhead in the Columbia and Snake Rivers. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. National Marine Fisheries Service, Seattle, Washington.
- Ebel, W.J. 1970. Effects of Transportation on Survival and Homing Ability of Salmonids from the Snake River. Bureau of Commercial Fisheries Report to U.S. Army Corps of Engineers. National Marine Fisheries Service. Seattle, Washington.
- Eisler. 1986. Dioxin Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. U.S. Fish and Wildlife Service. Contaminant Hazard Review, Report Number 8.
- Elliott, D., and R. Pascho. 1994. Juvenile Fish Transportation: Impact of Bacterial Kidney Disease on Survival of Spring/Summer Chinook Salmon Stocks. Annual Report 1992. Northwest Biological Science Center, National Biological Survey. September 1994.
- Elliott, D., and R. Pascho. 1993. Juvenile fish transportation: impact of bacterial kidney disease on survival of spring/summer chinook salmon stocks. Abstract. U.S. Fish and Wildlife Service, National Fisheries Research Center. Seattle, Washington.
- Elston, R. 1996. Investigation of Head Burns in Adult Salmonids, Phase I: Examination of Fish at Lower Granite Dam, July 2, 1996. Final Report. Aquatechnics Inc., Carlsborg, Washington. Prepared for Bonneville Power Administration, Environment, Fish and Wildlife. Portland, Oregon. Project No. 96-050-00. August 1996.

- EPA (Environmental Protection Agency). 2000a. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-1998. April 2000. Accessed at http://www.epa.gov/globalwarming/publications/emissions/us2000/index.html.
- EPA. 2000b. Aerometric Information Retrieval System (AIRS) Executive for Windows, Version 2.0.1.8. National Air Data Branch, Office of Air Quality Planning and Standards, Technical Support Division. Research Triangle Park, North Carolina.
- EPA. 1999a. Update of Ambient Water Quality Criteria for Ammonia. EPA-822-R-99-014. U.S. Environmental Protection Agency, Office of Water, Washington, D.C. 147 pages.
- EPA. 1999b. Columbia River Temperature Assessment: Simulation Methods (Draft). Region 10.
- EPA. 1998a. Aerometric Information Retrieval System (AIRS) Executive for Windows, Version 2.0.1.8, National Air Data Branch, Office of Air Quality Planning and Standards, Technical Support Division. Research Triangle Park, North Carolina.
- EPA. 1998b. Reviewing for Environmental Justice. EIS and Permitting Resource Guide. EPA Region 10—Environmental Justice Office. August, 1998.
- EPA. 1993. Re-Registration Eligibility Decision (RED): Glyphosate. Washington, D.C. (September).
- EPA. 1986. Quality Criteria for Water. EPA 440/5-86-001. Office of Water Regulations and Standards. Washington, D.C.
- EPA. 1976. Quality Criteria for Water. U.S. Environmental Protection Agency, Washington D.C. 20460.
- EPA and NMFS (National Marine Fisheries Service). 1971. Columbia River Thermal Effects Study: Volume 1, Biological Effects Study. U.S. Environmental Protection Agency and National Marine Fisheries Service.
- Everest, F.H., R.L. Beschta, J.C. Scrivener, K.V. Koski, J.R. Sedell, and C.J. Cederholm. 1987. Fine Sediment and Salmonid Production: A Paradox. Pages 98-142 in E.O. Salo and T.W. Cundy (editors). Streamside Management: Forestry and Fisheries Interaction. Control Number 57, Institute of Forest Resources, University of Washington, Seattle, Washington.
- Federal Caucus. 2000. Conservation of Columbia Basin Fish: Final Basinwide Salmon Recovery Strategy. In: Basinwide Recovery Strategy. December 21, 2000.
- Federal Register. 50 CFR Part 223. Vol. 64, No. 57. March 25, 1999. Page 14508. "Endangered and Threatened Species: Threatened Status for Two ESUs of Chum Salmon in Washington and Oregon." Final Rule.
- Federal Register. Vol. 64, No. 56. 50 CFR Parts 223 and 224. "Endangered and Threatened Species: Threatened Status for Three Chinook Salmon Evolutionary Significant Units (ESUs) in Washington and Oregon, and Endangered Status for One Chinook Salmon ESU in Washington." March 24, 1999. Page 14308.

- Federal Register. 50 CFR Part 227. Vol. 63, No. 53. March 19, 1998. Page 13347. "Endangered and Threatened Species: Threatened Status for Two ESUs of Steelhead in Washington, Oregon, and California." Final Rule.
- Federal Register. Vol. 63, No. 45. 50 CFR Parts 222, 226, and 227. "Endangered and Threatened Species: Proposed Endangered Status for Two Chinook Salmon ESUs and Proposed Threatened Status for Five Chinook Salmon ESUs; Proposed Redefinition, Threatened Status, and Revision of Critical Habitat for One Chinook Salmon ESU; Proposed Designation of Chinook Salmon Critical Habitat in California, Oregon, Washington, and Idaho." March 9, 1998. Page 11482.
- Federal Register. Vol. 62, No. 159. 50 CFR Parts 222 and 227. "Endangered and Threatened Species: Listing of Several Evolutionary Significant Units (ESUs) of West Coast Steelhead." August 18, 1997. Page 43937.
- Federal Register. Vol. 60, No. 142. 50 CFR Part 227. "Endangered and Threatened Species; Proposed Threatened Status for Three Contiguous ESUs of Coho Salmon Ranging From Oregon through Central California." July 25, 1995. Page 21744.
- Federal Register. Vol. 60, No. 107. June 5, 1995. Page 29578. "Intent to Prepare a Draft Environmental Impact Statement, Improvements for Juvenile Salmon Migration, Lower Snake River." U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington.
- Federal Register. Vol. 59, No. 194. September 23, 1994. Page 48855. Notices. NMFS Determination of Non-threatened Status of Mid-Columbia River Summer Chinook Salmon.
- Federal Register. Vol. 58, No. 247. 50 CFR Part 226. "Designated Critical Habitat; Snake River Sockeye Salmon, Snake River Spring/Summer Chinook Salmon, and Snake River Fall Chinook Salmon." December 28, 1993. Page 68543.
- Federal Register. Vol. 57, No. 78. 50 CFR Part 227. "Endangered and Threatened Species; Threatened Status for Snake River Spring/Summer Chinook Salmon, Threatened Status for Snake River Fall Chinook Salmon." April 22, 1992. Page 14653.
- Federal Register. Vol. 56, No. 224. December 20, 1991. Page 58619. Rules and Regulations. "Endangered and Threatened Species; Endangered Status for Snake River Sockeye Salmon." Final Rule. NMFS, NOAA.
- Fidler, L.E. 1998a. Laboratory Physiology Studies for Configuring and Calibrating the Dynamic Gas Bubble Trauma Mortality Model. Contract report prepared for Battelle Pacific Northwest Division, Richland, Washington, by Aspen Applied Sciences, Inc., Kalispell, Montana, under Contract DACW68-96-D-002, Delivery Order 6. U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington.
- Fidler, L.E. 1988b. Gas Bubble Trauma in Fish. Ph.D. Thesis, Department of Zoology, University of British Columbia, Vancouver, British Columbia.

- Fidler, L.E., and S.B. Miller. 1994. Draft British Columbia Water Quality Guidelines for Dissolved Gas Supersaturation. Prepared for B.C. Ministry of Environment, Canada Department of Fisheries and Oceans Environment, Canada. February 1994.
- Fidler, L.E., and S.B. Miller. 1993. British Columbia Water Quality Guidelines for Dissolved Gas Supersaturation. Report to B.C. Ministry of Environment, Canada Department of Fisheries and Oceans. 94 pages plus Appendix. Available from B.C. Ministry of Environment, Water Quality Branch, Water Management Division, 765 Broughton Street, Victoria, British Columbia.
- Fitzner, R.E., and W.C. Hanson. 1979. A Congregation of Wintering Bald Eagles. Condor 81: 311-313.
- Fleming, T. 1981. A Nesting Raptor Survey of the Lower Snake and Columbia Rivers Lewiston, Idaho, to Umatilla, Oregon. Prepared for U.S. Army Corps of Engineers. Walla Walla, Washington. 69 pages.
- Foster Wheeler Environmental (Foster Wheeler Environmental Corporation) and Harris, C.C. 2001. Assessment and Evaluation of the Drawdown Economic Workgroup (DREW) Recreation Analysis Findings. Report prepared for the U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington. July 2001.
- Foster Wheeler Environmental. 1999. Technical Memorandum—Water Quality/Sediment Transport Impact Analysis. Prepared for Normandeau Associates, Inc. Bellevue, Washington.
- FPC (Fish Passage Center). 2001. Fish Passage Center 2000 Draft Annual Report. Fish Passage Center and the Columbia Basin Fish and Wildlife Authority, Portland Oregon.
- FPC. 1999. Fish Passage Center 1998 Draft Annual Report. Fish Passage Center and the Columbia Basin Fish and Wildlife Authority, Portland Oregon. June 1999.
- FPC. 1998. Annual Report. Fish Passage Center and the Columbia Basin Fish and Wildlife Authority, Portland Oregon. BPA Contract #94-033. June 1999.
- Franklin, J.F., and C.T. Dyrness. 1973. Natural Vegetation of Oregon and Washington. USDA Forest Service General Technical Report PNW-8. 419 pages.
- Frest, T.J., and E.J. Johannes. 1992. Effects of the March 1992 Drawdown on the Freshwater Molluscs of the Lower Granite Lake Area, Snake River, Southeastern Washington and Western Idaho. Deixis Consultants. Seattle, Washington.
- Friesen, T.A., and D.L. Ward. 1999. "Management of Northern Pikeminnow and Implications for Juvenile Salmonid Survival in the Lower Columbia and Snake Rivers." *North American Journal of Fisheries Management*. 19:406-420.
- Fryer, J.K. 1998. "Frequency of Pinniped-caused Scars and Wounds on Adult Spring-Summer Chinook and Sockeye Salmon Returning to the Columbia River." *North American Journal of Fisheries Management*. 18:46-51.

- Fulton, L.A. 1968. "Spawning Areas and Abundance of Chinook Salmon (*Oncorhynchus tshawytscha*) in the Columbia River Basin–Past and Present." U.S. Fish and Wildlife Service Special Scientific Report. *Fisheries*, No. 571. 26 pages.
- FWPCA (Federal Water Pollution Control Administration). 1967. Water Temperatures Influences, Effects and Controls. Proceedings of the 12th Pacific Northwest Symposium on Water Pollution Research, November 7, 1963. Corvallis, Oregon.
- Galbreath, D.S., and R. Moreland. 1953. "The Chukar Partridge in Washington." Washington State Game Department. *Biological Bulletin*, No. 11. 54 pages.
- Garcia, A.P. et al. 1995. Fall Chinook Salmon Spawning Ground Surveys in the Snake River, 1995. Prepared by U.S. Fish and Wildlife Service, Idaho Fishery Resource Office, Ahsahka, Idaho.
- Garrett, M.G., J.W. Watson, and R.G. Anthony. 1993. "Bald Eagle Home Range and Habitat Use in the Columbia River Estuary." *Journal of Wildlife Management*. 57(1):19-27.
- Garson, D.J., W.J. McLaughlin, and L. Grussing. 2000. 1999 Lower Salmon River Nonmotorized Whitewater Boater Study. Department of Resource Recreation & Tourism. University of Idaho, Moscow.
- Geupel, G.R., D. Hardesty, and G. Ballard. 1993. Status and Distribution of the Landbird Avifauna along Riparian Corridors of the Sacramento River NWR: Results of the 1993 Field Season. A report of the Point Reyes Bird Observatory.
- Gilbreath, L.G., E.M. Dawley, R. Ledgerwood, P. Bentley, and S.J. Grabowski. 1993. Relative Survival of Subyearling Chinook Salmon that Have Passed Bonneville Dam Via the Spillway or Second Powerhouse Turbines or Bypass System: Adult Recoveries through 1991. Report to U.S. Army Corps of Engineers, Contract E96910013. National Marine Fisheries Service, Coastal Zone and Estuarine Studies Division, Seattle, Washington. 25 pages plus appendices.
- Giorgi, A., J.R. Warren, and HDR Engineering. 1997a. An Evaluation of the Effectiveness of Flow Augmentation in the Snake River, 1991-1995. Phase I—Final Report. BPA Project No. 95-070-00.
- Giorgi, A.E., T. Hillman, J. Stevenson, S. Hayes, and C. Peven. 1997b. "Factors that Influence the Downstream Migration Rates of Juvenile Salmon and Steelhead through the Hydroelectric System in the Mid-Columbia River Basin." *North American Journal of Fisheries Management*. 17:268-282.
- Gosselink J.B., and W.J. Mitsch. 1993. Wetlands. Van Nostrand Reinhold. Second Edition.
- Gregory, R.S., and C.D. Levings. 1998. Turbidity Reduces Predation on Migrating Juvenile Pacific Salmon. Transactions of the American Fisheries Society. 127:275-285.

- Hammond, R.J. 1979. Larval Biology of the Pacific Lamprey, *Entosphenus tridentatus* (Gairdner), of the Potlatch River, Idaho. M.S. Thesis. University of Idaho, Moscow, Idaho. 44 pages.
- Hanrahan, T.P., D.A. Neitzel, M.C. Richmond, and K.A. Hoover. 1999. Assessment of Drawdown From a Geomorphic Perspective Using Geographic Information Systems, Lower Snake River. Prepared for U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington. Prepared by Battelle Pacific Northwest National Laboratory, Richland, Washington. 87 pages.
- Hare, S.R., N.J. Mantau, and R.C. Francis. 1999. Inverse Production Regimes: Alaska and West Coast Pacific Salmon. *Fisheries*, January 1999.
- Harmon, J.R., N.N. Paasch, K.W. McIntyre, K.L. Thomas, B.P. Sandford, and G.M.
 Matthews. 1996. Research Related to Transportation of Juvenile Salmonids on the Columbia and Snake Rivers, 1994. NOAA, National Marine Fisheries Service Report to the U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Harmon, J.R., D.J. Kamikawa, B.P. Sandford, K.W. McIntyre, K.L. Thomas, Neil N.
 Paasch, and G.M. Matthews. 1995. Research Related to Transportation of Juvenile Salmonids on the Columbia and Snake Rivers, 1993. NOAA, National Marine Fisheries Service Report to the U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Harmon, J.R., B.P. Sandford, K.L. Thomas, N.N. Paasch, K.W. McIntyre, and G.M.
 Matthews. 1994. Research Related to Transportation of Juvenile Salmonids on the Columbia and Snake Rivers, 1992. NOAA, National Marine Fisheries Service Report to the U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Harmon, J.R., B.P. Sandford, K.W. McIntyre, K.L. Thomas, N.N. Paasch, and G.M.
 Matthews. 1993. Research Related to Transportation of Juvenile Salmonids on the Columbia and Snake Rivers, 1992. NOAA, National Marine Fisheries Service Report to the U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Harmon, J.R., B.P. Sandford, K.L. Thomas, Neil N. Paasch, K.W. McIntyre, and G.M.
 Matthews. 1990. Research Related to Transportation of Juvenile Salmonids on the Columbia and Snake Rivers, 1992. NOAA, National Marine Fisheries Service Report to the U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Harmon, J.R., and E. Slatick. 1989. Use of a Fish Transportation Barge for Increasing Returns of Steelhead Imprinted for Homing. Final Report to the Bonneville Power Administration by NOAA, National Marine Fisheries Service. Seattle, Washington.

- Harmon, J.R., G.M. Matthews, D.L. Park, and T.E. Ruehle. 1989. Evaluation of Transportation of Juvenile Salmonids and Related Research on the Columbia and Snake Rivers, 1988. NOAA, National Marine Fisheries Service Report to the U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Harris, C.C., W. McLaughlin, E. Nielsen, and D. Becker. 1999. Community-Based Social Impact Assessment for Phase I—Southwestern Washington, Northwestern Oregon, and North Central Idaho. Lower Snake River Juvenile Salmon Migration Feasibility Report/Environmental Impact Statement. University of Idaho. Prepared for U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington.
- Harris, C.C., W. McLaughlin, D. Becker, E. Nielsen, K. Steer, and G. Fizzell. 1999. Community-Based Social Impact Assessment for Phase II—Southern Idaho. Lower Snake River Juvenile Salmon Migration Feasibility Report/Environmental Impact Statement. University of Idaho. Prepared for U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington.
- Hatch, D.R., and B.L. Parker. 1998. Abundance Monitoring for Columbia and Snake Rivers. *In:* Pacific Lamprey Research and Restoration Annual Report, 1996. Prepared for U.S. Department of Energy and Bonneville Power Administration.
- Hatch, D.R., and B.L. Parker. 1996. Lamprey Research and Restoration Project 1996 Annual Report Part (B) Abundance Monitoring for Columbia and Snake Rivers. Portland, Oregon.
- Hayes, M.P. 1997. Status of the Oregon Spotted Frog (*Rana pretiosa sensu stricto*) in the Deschutes Basin and Selected Other Systems in Oregon and Northeastern California with a Rangewide Synopsis of the Species' Status. Final report prepared for The Nature Conservancy under contract to the U.S. Fish and Wildlife Service. Portland, Oregon. 57 pages plus appendices.
- Hayward, B.J., and S.P. Cross. 1979. The Natural History of *Pipistrellus hesperus* (Chiroptera Vespertilionidae). Report No. 3, Published by the Office of Research, Western New Mexico University. Silver City, New Mexico. 36 pages.
- HDR (HDR Engineering, Inc.) 1999. Lower Snake River Drawdown Study. Appendix B Technical Memoranda to the Washington State Transportation Legislative Committee, Olympia, Washington. February, 1999. Bellevue, Washington.
- Healey, M.C. 1991. Life History of Chinook Salmon *Oncorhynchus tshawytscha*. Pages 313-393. *In:* C. Groot and L. Margolis, Editors. Pacific Salmon Life Histories. UBC Press, Vancouver, British Columbia.
- Hem, J.D. 1989. Study and Interpretation of Chemical Characteristics of Natural Water. U.S. Geological Survey, Water Supply Paper 2254.
- Hilderbrand, G.V., S.D. Farley, C.T. Robbins, T.A. Hanley, K. Titus, and C. Servheen. 1996. "Use of Stable Isotopes to Determine Diets of Living and Extinct Bears." *Canadian Journal of Zoology.* 74:2080-2088.

- Hjort, R.C., B.C. Mundy, and P.L. Hulett. 1981. Habitat Requirements for Resident Fishes in the Reservoirs of the Lower Columbia River. Final Contract Report to U.S. Army Corps of Engineers, Portland District. Portland, Oregon. 180 pages.
- Holden, C. 1979. Agent Orange. Science: 205, 770.
- Holton, G.D. 1990. A Field Guide to Montana Fishes. Montana Department of Fish, Wildlife and Parks, Helena, Montana. 104 pages.
- Hooper, P.R., and Swanson D.A. 1987. Evolution of the Eastern Part of the Columbia Plateau. *In:* Schuster, J.E. (editor), Selected Papers on the Geology of Washington: Washington Division of Geology and Earth Resources Bulletin 77. Olympia, Washington. Pages 197-217.
- Howell, P., K. Jones, D. Scarnecchia, L. LaVoy, W. Kendra, and D. Ortmann. 1985.Stock Assessment of Columbia River Anadromous Salmonids, Vol. I: Chinook,Coho, Chum, and Sockeye Summaries. U.S. Department of Energy, BonnevillePower Administration. Portland, Oregon. 558 pages.
- Hunn, E.S. 1990. Nch'I-Wana, The Big River: Mid-Columbia Indians and Their Land. University of Washington Press. Seattle, Washington.
- Idaho Power. 1999. 1999 State and County Economic Forecast (1998-2020). Summary data provided by the State of Idaho, Department of Commerce.
- IEAB (Independent Economic Analysis Board of the Northwest Power Planning Council).

 1999. River Economics: Evaluating Trade-offs in Columbia River Basin Fish and Wildlife Programs and Policies. Accessed at http://www.nwppc.org/
- ISAB (Independent Scientific Advisory Board). Review of the U.S. Army Corps of Engineers' Capital Construction Program, Part II. B. Dissolved Gas Abatement Program. ISAB Report 98-8. September 29, 1998.
- ISG (Independent Scientific Group). 1996. Return to the River: Restoration of Salmonid Fishes in the Columbia River Ecosystem. Northwest Power Planning Council. Portland, Oregon. Publication 96-6. 584 pages.
- Iwamoto, R.N., W.D. Muir, B.P. Sandford, K.W. McIntyre, D.A. Frost, J.G. Williams,
 S.G. Smith, and J.R. Skalski. 1994. Survival Estimates for the Passage of
 Juvenile Chinook Salmon through Snake River Dams and Reservoirs, 1993.
 NOAA, National Marine Fisheries Service Report to Bonneville Power
 Administration. NMFS. Seattle, Washington.
- Iwamoto, R.N., and J. Williams. 1993. Juvenile Salmonid Passage and Survival through Turbines. Report to U.S. Army Corps of Engineers, project E86920049.National Marine Fisheries Service, Coastal Zone and Estuarine Studies Division. Seattle, Washington. 27 pages.

9-22 Literature Cited

- Iwamoto, R.N., W.D. Muir, B.P. Sandford, K.W. McIntyre, D.A. Frost, J.G. Williams,
 S.G. Smith, and J.R. Skalski, 1993. Survival Estimates for the Passage of
 Juvenile Chinook Salmon through Snake River Dams and Reservoirs, 1993.
 Coastal Zone and Estuarine Studies Division, National Marine Fisheries Service
 and Center for Quantitative Science, University of Washington. Seattle,
 Washington. December 1993.
- Jackson, A.D., and P.D. Kissner. 1998. Historic and Current Pacific Lamprey Abundance and Possible Reasons for Population Decline, Based on Oral Interviews and Review of Records and Literature, in CTUIR Ceded Areas of Northeast Oregon and Southeast Washington Subbasins of the Columbia River. *In:* Pacific Lamprey Research and Restoration Annual Report, 1996. Prepared for U.S. Department of Energy and Bonneville Power Administration.
- Jackson, P.L., and A.J. Kimerling, Ed. 1993. Atlas of the Pacific Northwest. Eighth edition. Oregon State University Press. Corvallis, Oregon.
- Jensen, J.O.T. 1988. Combined Effects of Gas Supersaturation and Dissolved Oxygen Levels on Steelhead (*Salmo gairdneri*) Eggs, Larvae, and Fry. Aquaculture, 68(2): 131-139.
- Jensen, J.O.T. 1980. Effect of Total Gas Pressure, Temperature, and Total Water Hardness on Steelhead Eggs and Alevins. A Progress Report. *In:* Proceedings of the 31st Northwest Fish Culture Conference, Courtenay, British Columbia. Pages 15-22.
- Jessup, E.L., and K.L.Casavant. 1998. Impact of Snake River Drawdown on Transportation of Grains in Eastern Washington: Competitive and Rail Car Constraints. Draft Copy. EWITS Research Report. May 1998.
- Johnson, A., D. Serder, and S. Magoon. 1991. Polychlorinated Dioxins and Furans in Lake Roosevelt (Columbia River) Sport Fish, 1990. Washington Department of Ecology and Toxics Investigations and Groundwater Monitoring Section, Olympia, Washington. Publication Number 91-4 (March).
- Johnson, G.E., C.M. Sullivan, and M.W. Erho. 1992. Hydroacoustic Studies for Developing a Smolt Bypass System at Wells Dam. Fisheries Research. 14:221-237.
- Johnson, R.E. and K.M. Cassidy. 1997. Terrestrial Mammals of Washington State:
 Location Data and Predicted Distributions. Volume 3 in Washington State Gap
 Analysis—Final Report (K.M. Cassidy, C.E. Grue, M.R. Smith, and K.M.
 Dvornich, eds.) Washington Cooperative Fish and Wildlife Research Unit,
 University of Washington. Seattle, Washington. Volumes 1-5.
- Johnson, R.L., S.M. Anglea, S.L. Blanton, M.A. Simmons, R.A. Moursund, G.E. Johnson, E.A. Kudera, J. Thomas, and J.R. Skalski. 1999. Hydroacoustic Evaluation of Fish Passage and Behavior at Lower Granite Dam in Spring 1998, Summary of Final Report. Richland, Washington. February 1999.

- Jones, K.B. 1988. Comparison of Herpetofaunas of A Natural and Altered Riparian Ecosystem. Pages 222-227. *In:* Szaro, R.C., K.E. Severson, and D.R. Patton (Technical Coordinators). Management of Amphibians, Reptiles, and Small Mammals in North America. (Flagstaff, Arizona, July 19-21, 1988). USDA Forest Service General Technical Report RM-166. 458 pages.
- Kan, T.T. 1975. Systematics, Variation, Distribution, and Biology of Lampreys of the Genus Lampetra in Oregon. Doctoral Dissertation, Oregon State University. Corvallis, Oregon. 194 pages.
- Kareiva, P. et al. 2000. Recovery and Management Options for Spring/Summer Chinook Salmon in the Columbia River Basin. Unpublished manuscript. Seattle, Washington.
- Kappler, C.J. (ed). 1972. Indian Treaties: 1778-1883. New York: Interland Publishing.
- Kleist, T. 1993. Bull Trout Observation Request of 29 October 1993. Washington Department of Wildlife Memorandum to Eric Anderson. Walla Walla District, Walla Walla, Washington. Adult Fish Passage.
- Kline, P.A., and J.A. Lamansky, Jr. 1997. Research and Recovery of Snake River Sockeye Salmon. Annual Report for April 1995—April 1996. Idaho Department of Fish and Game IDFG 97-5, prepared for Bonneville Power Administration. Project No. 91-72.
- Koehler, G.M., and K.B. Aubry. 1994. Lynx. Chapter 4 in The Scientific Basis for Conserving Forest Carnivores in the Western United States: American Marten, Fisher, Lynx, and Wolverine (Ruggiero et al., Technical Editors). USDA Forest Service General Technical Report RM-254.
- Koehler, G.M. 1990. "Population and Habitat Characteristics of Lynx and Snowshoe Hares in North Central Washington." *Canadian Journal of Zoology*. 68:845-851.
- Krise, W.F., J.W. Meade, and R.A. Smith. 1990. Effect of Feeding Rate and Gas Supersaturation on Survival and Growth of Lake Trout. Progressive Fish Culturists, 52(1): 45-50.
- Kuel, D.W., P.M. Cook, A.R. Betterman, and B.C. Butterworth. 1987. Bioavailability of Polychlorinated Dibenzo-p-Dioxins and Dibenzo Furans from Contaminated Wisconsin River Sediments to Carp. Chemosphere, 16: 667-679.
- La Bolle, L.D., Jr. 1984. Importance of the Upper Littoral Zone as Rearing Area for Larval and Juvenile Fishes in a Columbia River Impoundment. Thesis. Oregon State University. Corvallis, Oregon.

- Ledgerwood D.L., E.M. Dawley, L.G. Gilbreath, P.J. Bently, B.P. Sandford, and M.H. Schiewe. 1990. Relative Survival of Subyearling Chinook Salmon which have Passed Bonneville Dam Via the Spillway or the Second Powerhouse Turbines or Bypass System in 1989, with Comparisons to 1987 and 1988. Report prepared for U.S. Army Corps of Engineers, Contract E85890097. National Marine Fisheries Service, Northwest Fisheries Science Center, Seattle, Washington. 64 pages plus appendices.
- Ledgerwood, R.D., B.A. Ryan, E.P. Nunnallee, and J.W. Ferguson. 1999. Estuarine Detection of PIT-Tagged Juvenile Salmonids from the Lower Granite Dam Transportation and Other Studies in a Pair-Trawl, 1999. National Marine Fisheries Service, Fish Ecology Division.
- Lee, N.S., and K.L. Casavant. 1998. Impacts of a Snake River Drawdown on Energy Consumption and Environmental Emissions in Transporting Eastern Washington Wheat and Barley. Eastern Washington Internmodal Transportation Study, Washington State University. EWITS Research Report No. 23. March 1998.
- Lee, N.S., and K.L. Casavant. 1996. Waterborne Commerce on the Columbia-Snake System. EWITS Research Report #12. October 1996.
- Lemieux, P.M., C.C. Lutes, J.A. Abbot, and K.M. Aldous. 2000. Emissions of Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzo-p-Furans from Open Burning of Household Waste Barrels. Environmental Science and Technology, 34(3) p. 377.
- Leonard, W.P., H.A. Brown, L.L.C. Jones, K.R. McAllister, and R.M. Storm. 1993.

 Amphibians of Washington and Oregon. Seattle Audubon Society, The Trailside Series, Seattle, Washington.
- Leonard, P.M., and D.J. Orth. 1988. "Use of Habitat Guilds of Fishes to Determine Instream Flow Requirements." *North American Journal of Fisheries Management*. 8:399-409.
- Lewke, R.E., and I.O. Buss. 1977. "Impacts of Impoundment to Vertebrate Animals and their Habitats in the Snake River Canyon, Washington." *Northwest Science*. 51:219-270.
- Lind, A.J., H.H. Welse, Jr., and R.A. Wilson. 1996. "The Effects of a Dam on Breeding Habitat and Egg Survival of the Foothill Yellow-Legged Frog (*Rana boylii*) in Northwestern California." *Herpetological Review*. 27(2):62-67.
- Lloyd, D.S. 1987. "Turbidity as a Water Quality Standard for Salmonid Habitats in Alaska." *North American Journal of Fisheries Management*. 7:34-45.
- Long, C.W. 1968. "Diel Movement and Vertical Distribution of Juvenile Anadromous Fish in Turbine Intakes." *Fishery Bulletin*. 66:599-609.
- Long, C.W., R.F. Krcma, and F.P. Ossiander. 1968. Research on Fingerling Mortality in Kaplan Turbines—1968. U.S. Bureau of Commercial Fisheries, Biological Laboratory. Seattle, Washington.

- Loper, S., and K. Lohman. 1998. Distribution and Abundance of Amphibians and Reptiles in Riparian and Upland Habitats Along the Lower Snake River. Report prepared for the U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington. February, 1998. 46 pages.
- Lucas, B., and J. Lock. 1991. Wild Steelhead Spawning Escapement Estimates for Southwest Washington Streams: 1988-1990. Report No. 91-12. Washington Department of Wildlife. Olympia, Washington.
- Lucas, R. 1985. Recovery of Game Fish Populations Impacted by the May 19, 1980 Eruption of Mount St. Helens, Part I. Recovery of Winter-Run Steelhead in the Toutle River Watershed. Fishery Management Report No. 85-9A. Washington Department of Game. Olympia, Washington.
- Ludwig, D. 1999. "Is it Meaningful to Estimate a Probability of Extinction?" *Ecology*. 80:298-310.
- MacDonald, L.H., A.H. Smart, and R.C. Wissmar. 1991. Monitoring Guidelines to Evaluate Effects of Forestry Activities on Streams in the Pacific Northwest and Alaska. EPA/910/9-91-001. Edward Brothers Press. Ann Arbor, Michigan.
- Mack, C., L. Kronemann, and C. Eneas. 1994. Lower Clearwater Aquatic Mammal Survey. Final Report. Prepared for Bonneville Power Administration, Portland, Oregon. Prepared by Nez Perce Tribe, Lapwei, Idaho. 135 pages.
- Maiolie, M.A. 1988. Dworshak Dam Impacts Assessment and Fishery Investigation. Annual Report FY 1987. U.S. Department of Energy, Bonneville Power Administration, U.S. Fish and Wildlife Service, Project No. 87-99.
- Malanson, G.P. 1993. Riparian Landscapes. Cambridge University Press. Cambridge, Great Britain. 296 pages.
- Mantau, N.J., S.R. Hare, Y. Zhang, J.M. Wallace, and R.C. Francis. 1997. A Pacific Interdecadal Climate Oscillation with Impacts on Salmon Production. Bulletin of the American Meteorological Society
- Marmorek, D.R., and C.N. Peters (eds). 1998a. Plan for Analyzing and Testing Hypotheses (PATH). Preliminary Decision Analysis Report on Snake River Spring/Summer Chinook. Draft report compiled and edited by ESSA Technologies, LTD. Vancouver, British Columbia.
- Marmorek, D.R., and C.N. Peters (eds). 1998b. PATH Weight of Evidence Report. Prepared by ESSA Technologies, LTD. Vancouver, British Columbia.
- Marmorek, D.R., C.N. Peters, and I. Parnell (eds). 1998c. PATH Final Report for Fiscal Year 1998. Prepared by ESSA Technologies, LTD. Vancouver, British Columbia.

- Marmorek, D.R., and C.N. Peters (eds.). 1998d. J. Anderson, R. Beamesderfer, L. Botsford, J. Collie, B. Dennis, R. Deriso, C. Ebbesmeyer, T. Fisher, R. Hinrichsen, M. Jones, O. Langness, L. LaVoy, G. Matthews, C. Paulsen, C. Petrosky, S. Saila, H. Schaller, C. Toole, C. Walters, E. Weber, P. Wilson, and M.P. Zimmerman. Plan for Analyzing and Testing Hypotheses (PATH): Retrospective and Prospective Analyses of Spring/summer Chinook Reviewed in FY 1997. Compiled and edited by ESSA Technologies Ltd. Vancouver, British Columbia.
- Marmorek, D.R. (ed.), J.J. Anderson, L. Basham, D. Bouillon, T. Cooney, R. Deriso, P. Dygert, L. Garrett, A. Giorgi, O.P. Langness, D. Lee, C. McConnaha, I. Parnell, C.M. Paulsen, C. Peters, C.E. Petrosky, C. Pinney, H.A. Schaller, C. Toole, E. Weber, P. Wilson, and R.W. Zabel. 1996. Plan for Analyzing and Testing Hypotheses (PATH): Final Report. Retrospective Analyses for Fiscal Year 1996. Compiled by ESSA Technologies, LTD. Vancouver, British Columbia.
- Marsh, D.M., J.R. Harmon, N.N. Paasch, K.L. Thomas, K.W. McIntyre, B.P. Sandford, and G.M. Matthews. 1998. Research Related to Transportation of Juvenile Salmonids on the Columbia and Snake Rivers, 1997. Prepared for Fish Ecology Division, Northwest Fisheries Science Center, National Marine Fisheries Service. Seattle, Washington. September 1998.
- Marsh, D.M., J.R. Harmon, N.N. Paasch, K.L. Thomas, K.W. McIntyre, B.P. Sandford, and G.M. Matthews. 1997a. Research Related to Transportation of Juvenile Salmonids on the Columbia and Snake Rivers, 1996. NOAA, National Marine Fisheries Service Report to the U.S. Army Corps of Engineers. National Marine Fisheries Service. Seattle, Washington.
- Marsh, D.M., J.R. Harmon, N.N. Paasch, K.L. Thomas, K.W. McIntyre, B.P. Sandford, and G.M. Matthews. 1997b. Research Related to Transportation of Juvenile Salmonids on the Columbia and Snake Rivers, 1997 (draft report). NOAA, National Marine Fisheries Service Report to the U.S. Army Corps of Engineers. National Marine Fisheries Service. Seattle, Washington.
- Marsh, D.M., J.R. Harmon, K.W. McIntyre, K.L. Thomas, N.N. Paasch, B.P. Sandford,
 D.J. Kamikawa, and G.M. Matthews. 1996. Research Related to Transportation of Juvenile Salmonids on the Columbia and Snake Rivers, 1995. NOAA,
 National Marine Fisheries Service Report to the U.S. Army Corps of Engineers.
 NMFS. Seattle, Washington.
- Martin, D.J., L.J. Wasserman, R.P. Jones, and E.O. Salo. 1984. Effects of Mount St.Helens Eruption on Salmon Populations and Habitat in the Toutle River.Technical Completion Report for U.S. Department of the Interior, Washington,D.C. October 1984.
- Martin, J.L., and S.C. McCutcheon. 1999. Hydrodynamics and Transport for Water Quality Modeling. Lewis Publishers, Boca Raton, Florida.
- Maser, C. 1998. Mammals of the Pacific Northwest: from the Coast to the High Cascades. Oregon State University Press. Corvallis, Oregon. 406 pages.

- Mathur, D., P.G. Heisey, E.T. Euston, J.R. Skalski, and S. Hays. 1996. "Turbine Passage Survival Estimation for Chinook Salmon Smolts (*Oncorhynchus tshawytscha*) at a Large Dam on the Columbia River." *Canadian Journal of Fisheries and Aquatic Science.* 53:542-549.
- Matthews, G.M. 1999. Truck Transportation of Juvenile Salmonids at U.S. Army Corps of Engineers Dams. National Marine Fisheries Service, Northwest Fisheries Science Center, Fish Ecology Division. Seattle, Washington. 29 pages.
- Matthews, G.M., S. Achord, J.R. Harmon, O.W. Johnson, D.M. Marsh, B.P. Sandford, N.N. Paasch, K.W. McIntyre, and K.L. Thomas. 1992. Evaluation of Transportation of Juvenile Salmonids and Related Research on the Columbia and Snake Rivers, 1990. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Matthews, G.M., and R.S. Waples. 1991. Status Review for Snake River Spring and Summer Chinook Salmon. U.S. Department of Commerce, NOAA Technical Memo. National Marine Fisheries Service F/NWC-200, 75 pages.
- Matthews, G.M., J.R. Harmon, S. Achord, O.W. Johnson, and L.A. Kubin. 1990. Evaluation of Transportation of Juvenile Salmonids and Related Research on the Columbia and Snake Rivers, 1989. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Matthews, G.M., D.L. Park, T.E. Ruehle, and J.R. Harmon. 1988. Evaluation of Transportation of Juvenile Salmonids and Related Research on the Columbia and Snake Rivers, 1986. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Matthews, G.M., D.L. Park, J.R. Harmon, C.S. McCutcheon, and A.J. Novotny. 1987. Evaluation of Transportation of Juvenile Salmonids and Related Research on the Columbia and Snake Rivers, 1986. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Matthews, G.M., D.L. Park, T.E. Ruehle, and J.R. Harmon. 1985. Evaluation of Transportation of Juvenile Salmonids and Related Research on the Columbia and Snake Rivers, 1984. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Maule, A.G., J. Beeman, K.M. Hans, M.G. Mesa, P. Haner, and J.J. Warren. 1997. Gas Bubble Disease Monitoring and Research of Juvenile Salmonids prepared for U.S. Department of Energy. Portland, Oregon. October 1997.
- Maybee, W.R., J.H. Smith, R.T., and H. Ammann. 1991. Health Implication of PCDD and PCDF Concentrations Reported from Lake Roosevelt Sport Fish. The Office of Toxic Substances, Washington Department of Health, Olympia, Washington.
- McAllister, K.R., and W.P. Leonard. 1997. Washington State Status Report for the Oregon Spotted Frog. Washington Department of Fish and Wildlife, Wildlife Management Program, Olympia, Washington. 38 pages.

- McCabe, G.T., Jr., C.A. Tracy. 1994. "Spawning and Early Life History of White Sturgeon, *Acipenser transmontanus*, in the Lower Columbia River." *Fishery Bulletin*. 92:760-772. February 1994.
- McClure, M.M., B.L. Sanderson, E.E. Holmes, and C.E. Jordan. 2000. "A Large-Scale, Multi-Species Risk Assessment: Anadromous Salmonids in the Columbia River Basin." National Marine Fisheries Service, Northwest Fisheries Science Center, Seattle, Washington. In review for *Ecological Application*.
- McConnahan, C. 1990. Memorandum to the Monitoring and Evaluation Work Group. Analytical Methods Work Group: Flow/Survival Relationship. June 11, 1990. Portland, Oregon: Northwest Power Planning Council. 1990.
- McGinnis, W.J. and H.H Christensen. 1996. The Interior Columbia River Basin: Patterns of Population, Employment, and Income Change. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, Oregon, General Technical Report PNW-GTR-358. August 1996.
- McGinnis, W.J., R.H. Phillips, T.L. Raettig, and K.P. Connaughton. 1997. County Portraits of Washington State. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, Oregon, General Technical Report PNW-GTR-400. April 1997.
- McKee, J.E., and H.W. Wolf. 1963. Water Quality Criteria. State Water Quality Control Board. Sacramento, California. Publication 3-A.
- McKelvey, K.S., K.B. Aubry, and Y.K. Ortega. 1999a. History and Distribution of Lynx in the Contiguous United States. Chapter 8. *In:* The Scientific Basis for Lynx Conservation (Draft). USDA Forest Service General Technical Report RMRS-GTR-30.
- McKelvey, K.S., Y.K. Ortega, G. Koehler, K. Aubry, and D. Brittell. 1999b. Canada Lynx Habitat and Topographic Use Patterns in North Central Washington: A Reanalysis. Chapter 10. *In:* The Scientific Basis for Lynx Conservation (Draft). USDA Forest Service General Technical Report RMRS-GTR-30.
- Meekin, T.A., and B.K. Turner. 1974. Tolerance of Salmonid Eggs, Juveniles, and Squawfish to Supersaturated Nitrogen. Washington Department of Fisheries, Technical Report, 12: 78-126.
- Mendel, G. 1998. Stock Composition of Fall Chinook at Lower Granite Dam in 1997. Columbia River Laboratory Progress Report 98-15. Washington Department of Fish and Wildlife, Dayton, Washington. December 1998.
- Mendel, G., and D. Milks. 1997. Upstream Passage and Spawning of Fall Chinook Salmon in the Snake River. Washington Department of Fish and Wildlife Hatcheries Program. Olympia, Washington. May 1997.

- Mendel, G., D. Milks, M. Clizer, and R. Bugert. 1993. Upstream Passage and Spawning of Fall Chinook Salmon in the Snake River. Washington Department of Fisheries, Salmon Culture Division. *In:* Upstream Passage, Spawning, and Stock Identification of Fall Chinook Salmon in the Snake River, 1992. H. L. Blankenship and G. W. Mendel (eds.). Prepared for U.S. Department of Energy and Bonneville Power Administration, Division of Fish and Wildlife. Project No. 92-046. December 1993.
- Mesa, M.G., L.K. Weiland, and A.G. Maule. 1996. "Progression and Severity of Gas Bubble Trauma in Juvenile Salmonids." *Transactions of the American Fisheries Society*.
- Meyer Resources. 1999. Tribal Circumstances and Impacts of the Lower Snake River Projects on the Nez Perce, Yakama, Umatilla, Warm Springs and Shoshone Bannock Tribes. Report developed for the Columbia River Intertribal Fisheries Commission (CRITFC). September 1999.
- Miklancic, F.J. 1989. "Ice Harbor Dam." *In: Engineering Geology in Washington, Vol. I. Washington Division of Geology and Earth Resource Bulletin 78.* Pages 453-457.
- Mladenoff, D.J., T.A. Sickley, R.G. Haight, and A.P. Wydeven. 1995. "A Regional Landscape Analysis and Prediction of Favorable Gray Wolf Habitat in the Northern Great Lakes Region." *Conservation Biology.* 9:2, 279-294.
- Moore, W.R. 1996. The Lochsa Story. Mountain Publishing Company, Missoula, Montana. 461 pages.
- Moore, W.R. 1984. "Last of the Bitterroot Grizzly." Montana Magazine. November.
- Morgan, J.J. 1967. Principles and Applications in Water Chemistry. S.D. Faust and J.V. Hunter, Editors. J. Wiley and Sons, New York, New York.
- Muir, W.D., S.G. Smith, E.E. Hockersmith, M.B. Eppard, W.P. Connor, and B.D. Arnsberg. 1999. Fall Chinook Salmon Survival and Supplementation Studies in the Snake River and Lower Snake River Reservoirs, 1997. Prepared for U.S. Department of Energy, Bonneville Power Administration, Division of Salmon and Wildlife. Portland, Oregon. March 1999.
- Muir, W.D., S. Smith, K. McIntyre, and B. Sandford. 1998. Project Survival of Juvenile Salmonids Passing through the Bypass System, Turbines, and Spillways with and without Flow Deflectors at Little Goose Dam, 1997. Report to U.S. Army Corps of Engineers. 47 pages. (Available from Northwest Fisheries Science Center, Fish Ecology Division, 2725 Montlake Blvd. E., Seattle, WA 98112-2013).
- Muir, W., and 10 Other Authors. 1996. Survival Estimates for the Passage of Juvenile Salmonids through Snake River Dams and Reservoirs. Annual Report to BPA. Project 93-29. 187 pages.

- Muir, W.D., S.G. Smith, R.N. Iwamoto, D.J. Kamikawa, K.W. McIntyre, E.E.
 Hockersmith, B.P. Sandford, P.A. Ocker, T.E. Ruehle, and J.G. Williams. 1995.
 Survival Estimates for the Passage of Juvenile Salmonids through Snake River
 Dams and Reservoirs, 1994. Annual Report, DOE/BP-10891-2. Bonneville
 Power Administration. Portland, Oregon. February 1995.
- Muir, W.D., S.G. Smith, E.E. Hockersmith, and M.B. Eppard. 1988. Passage Survival of Hatchery Subyearling Fall Chinook Salmon to Lower Granite, Little Goose, and Lower Monumental Dams, 1996. *In:* Fall Chinook Salmon Survival and Supplementation Studies in the Snake River and Lower Snake River Reservoirs, 1996. Eds. J.G. Williams and T.C. Bjornn. Prepared for U.S. Department of Energy and Bonneville Power Administration.
- Mullan, J.W., M.B. Dell, S.G. Hays, and J.A. McGee. 1986. Some Factors Affecting Fish Production in the Mid-Columbia River 1934-1983. Report No. FRI/FAO-86-15. U.S. Fish and Wildlife Service, Fisheries Assistance Office.
- Mullan, J.W. 1984. Overview of Artificial and Natural Propagation of Coho Salmon (*Oncorhynchus kisutch*) on the Mid-Columbia River. U.S. Fish and Wildlife Service Report No. FRI/FAO-84-4. 37 pages.
- Muncy, R.J. 1962. Life History of the Yellow Perch, *Perca flavescens*, in Estuarine Waters of Severn River, a Tributary of Chesapeake Bay. Maryland. *Chesapeake Science* 3:143-159.
- Mundy, P.R. 1994. Transportation of Juvenile Salmonids from Hydroelectric Projects in the Columbia River Basin. Prepared for U.S. Fish and Wildlife Service, Portland, Oregon. May 1994.
- Myers, J.M., R.G. Kope, G.J. Bryant, D. Teel, L.J. Lierheimer, T.C. Wainwright, W.S. Grant, F.W. Waknitz, K. Neely, S.T. Lindeley, and R.S. Waples. 1998. Status Review of Chinook Salmon from Washington, Idaho, Oregon, and California. National Marine Fisheries Service. February 1998. Technical Memorandum NMFS-NMFS-35.
- Naughton, G. 1998. Predator Abundance and Salmonid Prey Consumption in the Tailrace and Forebay of Lower Granite Dam and the Upper Arms of Lower Granite Reservoir. Master's Thesis. University of Idaho. Moscow, Idaho.
- Nebeker, A.V., and J.R. Brett. 1976. "Effects of Air-Supersaturated Water on Survival of Pacific Salmon and Steelhead Smolts." *Transactions of the American Fisheries Society.* 105:338-342.
- Nehlsen, W., J.E. Williams, and J.A. Lichatowich. 1991. "Pacific Salmon at the Crossroads: Stocks at Risk from California, Oregon, Idaho, and Washington." *Fisheries*. 16(2):4-21.
- Nelle, R.D. 1999. Smallmouth Bass Predation on Juvenile Fall Chinook Salmon in the Hells Canyon Reach of the Snake River, Idaho. Master's Thesis. University of Idaho, Moscow, Idaho. 89 pp.

- Nelson, W.R. and C.H. Wallburg. 1977. Population Dynamics of Yellow Perch (*Perca flavescens*), Sauger (*Stizostedion canadense*), and Walleye (*S. vitreum vitreum*) in Four Main Stem Missouri River Reservoirs. *Journal of the Fisheries Research Board of Canada*. 34: 1748-1763.
- Newcomb, T.W. 1976. Changes in Blood Chemistry of Juvenile Steelhead, *Salmo gairdneri*, Following Sublethal Exposure to Nitrogen Supersaturation. *In:* Gas Bubble Disease.
- Newcombe, C.P., and J.O.T. Jensen. 1996. Channel Suspended Sediment and Fisheries: A Synthesis for Quantitative Assessment of Risk and Impact. *North American Journal of Fisheries Management.* 16: 693-727.
- Newcombe, C.P., and D.D. MacDonald. 1991. "Effects of Suspended Sediments on Aquatic Ecosystems." *North American Journal of Fisheries Management*. 11:72-82.
- Newkirk, J.R., K.A. Eriksen, and K.L. Casavant. 1995. Transportation Characteristics of Wheat and Barley Shipments on Haul Roads to and from Elevators in Eastern Washington. EWITS Research Report #5. March.
- NMFS (National Marine Fisheries Service). 2000a. Biological Opinion on the Federal Columbia River Power System. NMFS. Portland, Oregon. December 2000.
- NMFS. 2000b. Salmonid Travel Time and Survival Related to Flow in the Columbia River Basin. White Paper. Northwest Fisheries Science Center, National Marine Fisheries Service. March 2000.
- NMFS. 2000c. Summary of Research Related to Transportation of Juvenile Anadromous Salmonids around Snake and Columbia River Dams. White Paper. Northwest Fisheries Science Center, National Marine Fisheries Service. Seattle, Washington. April 2000.
- NMFS. 2000d. Predation on Salmonids Relative to the Federal Columbia River Power System. White Paper. Northwest Fisheries Science Center, National Marine Fisheries Service and National Oceanic and Atmospheric Administration. Seattle, Washington. March 2000.
- NMFS. 2000e. Salmonid Travel Time and Survival Related to Flow in the Columbia River Basin. White Paper. Northwest Fisheries Science Center, National Marine Fisheries Service. March 2000.
- NMFS. 1999a. Draft Salmonid Travel Time and Survival Related to Flow Management in the Columbia River Basin. White Paper. Northwest Fisheries Science Center, National Marine Fisheries Service. September 1999. NMFS. Portland, Oregon.
- NMFS. 1999b. Passage of Juvenile and Adult Salmonids Past Columbia and Snake River Dams. White Paper. Northwest Fisheries Science Center, National Marine Fisheries Service and National Oceanic and Atmospheric Administration. Seattle, Washington. October 1999.

- NMFS. 1999c. Summary of Research Related to Transportation of Juvenile Anadromous Salmonids around Snake and Columbia River Dams. White Paper. Northwest Fisheries Science Center, National Marine Fisheries Service. Seattle, Washington.
- NMFS. 1999d. Predation on Salmonids Relative to the Federal Columbia River Power System. White Paper. Northwest Fisheries Science Center, National Marine Fisheries Service and National Oceanic and Atmospheric Administration. Seattle, Washington. October 1999.
- NMFS. 1998. Supplemental Biological Opinion: Operation of the Federal Columbia Power System, Including the Smolt Monitoring Program and the Juvenile Fish Transport Program: A Supplement to the Biological Opinion Signed on March 2, 1995, for the Same Projects. Endangered Species Act—Section 7 Consultation. Portland, Oregon.
- NMFS. 1995. Biological Opinion: Reinitiation of Consultation on 1994 to 1998 Operations of the Columbia River Power System and Juvenile Transportation Program in 1994 to 1998. Endangered Species Act—Section 7 Consultation. Portland, Oregon.
- NMFS. Undated. A Large-Scale, Multi-Species Risk Assessment: Anadromous Salmonids in the Columbia River Basin. Northwest Fisheries Science Center, National Marine Fisheries Service and National Oceanic and Atmospheric Administration. Seattle, Washington.
- Noggle, C.C. 1978. Behavioral Physiological and Lethal Effects of Suspended Sediment on Juvenile Salmonids. Master's Thesis, University of Washington. Seattle, Washington.
- Normandeau Associates, Inc. and J. Skalski. 1997. Turbine Passage Survival of Chinook Salmon Smolts at the Rock Island Dam Powerhouse I and II, Columbia River, Washington. Draft Report Prepared by Normandeau Associates for Public Utility District No. 1 of Chelan County, Wenatchee, Washington. 20 pages.
- Normandeau Associates, Mid-Columbia Consulting, and J.R. Skalski. 1996. Fish Survival in Passage through the Spillway and Sluiceway at Wanapum Dam on the Columbia River, Washington. Prepared for Grant County Public Utilities District by Normandeau Associates, Drumore, Pennsylvania.
- NPPC (Northwest Power Planning Council). 1991. Fish and Wildlife Program Amendments (Phase Two). Portland, Oregon.
- NPPC . 1986. Compilation of Information on Salmon and Steelhead Losses in the Columbia River Basin. Portland, Oregon. 252 pages.
- NPPC. 1982. NPPC Fish and Wildlife Program (Section 300 "Water Budget and Mainstream Flows" and Section 400 "Downstream Passage"). Portland, Oregon.
- NRC (National Research Council). 1996. Upstream: Salmon and Society in the Pacific Northwest. National Academy Press, Washington, D.C.

- NRCC (National Resources Council Canada). 1981. Polychlorinated Dibenzon-p-Dioxins: Criteria for their Effects on Man and his Environment. National Resources Council Canada, Publication Number 18575.
- NW Fishletter. 1999. NWF.082.[2]. Record Run for Columbia Spring/Summer Jacks. June 2, 1999.
- ODFW and WDFW (Oregon Department of Fish and Wildlife and Washington Department of Fish and Wildlife). 2000. Status Report: Columbia River Fish Runs and Fisheries 1938-1999. Oregon Department of Fish and Wildlife and Washington Department of Fish and Wildlife. October 2000.
- ODFW and WDFW. 1998. Status Report. Columbia River Fish Runs and Fisheries, 1938-1997. Oregon.
- ODFW. 1991. 1991 All Species Review, Columbia River Fish Management Plan. Technical Advisory Committee. Clackamas, Oregon.
- Oelklaus, W.F. III. 1976. Chukar Partridge Dispersion along the Middle and Lower Snake and Columbia Rivers. M.S. Thesis. University of Idaho. Moscow, Idaho. 56 pages.
- Olney, F.E., and Members of the Ad Hoc Transportation Review Group. 1992. Review of Salmon and Steelhead Transportation Studies in the Columbia and Snake Rivers, 1984-1989. Report Submitted to the Columbia Basin Fish and Wildlife Authority.
- Olsen, D., and J. Richards. 1994. Inter-Basin Comparison Study, Columbia River Salmon Production Compared to Other West Coast Production Areas, Phase II Analysis. Study Sponsored by U.S. Army Corps of Engineers.
- Opperhuizen, A., and D.T.H.M. Sijm. 1990. Bioaccumulation and Biotransformation of Polychlorinated Dibenzo-p-Dioxins and Dibenzofurans in Fish. Chemosphere, 175-186.
- Palmer, F.H., R.A. Sapudar, J.A. Heath, N.J. Richard, and G.W. Bowes. 1988. Chlorinated Dibenzo-Pdioxin and Dibenzo Furan Contamination in California from Chlorophenol Wood Preservative Use. State of California Water Resources Control Board, Division of Water Quality. Report No. 88-5WQ.
- Parente, W.D., and J.G. Smith. 1981. Columbia River Backwater Study: Phase II. U.S. Fish and Wildlife Service. Vancouver, Washington. 87 pages plus appendices.
- Park, D.L. 1993. Transportation as a Means of Increasing Juvenile Salmon Survival. Report for S.P. Cramer and Associates. Gresham, Oregon.
- Park, D.L., G.M. Matthews, T.E. Ruehle, J.R. Harmon, E. Slatick, and F. Ossiander. 1986. Evaluation of Transportation of Juvenile Salmonids and Related Research on the Columbia and Snake Rivers, 1985. NOAA, NMFS Report to U.S. Army Corps of Engineers. NMFS. Seattle, Washington.

- Park, D.L., G.M. Matthews, J.R. Smith, T.E. Ruehle, J.R. Harmon, and S. Achord. 1984. Evaluation of Transportation of Juvenile Salmonids and Related Research on the Columbia and Snake Rivers, 1983. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. NMFS, Seattle, Washington.
- Park, D.L., G.M. Matthews, T.E. Ruehle, J.R. Smith, J.R. Harmon, B.H. Monk, and S. Achord. 1983. Transportation Research on the Columbia and Snake Rivers, 1982. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Park, D.L., J.R. Harmon, B.H. Monk, T.E. Ruehle, T.W. Newcomb, L.R. Basham, and T.A. Flagg. 1981. Transportation Research on the Columbia and Snake Rivers, 1980. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Park, D.L., T.E. Ruehle, J.R. Harmon, and B.H. Monk. 1980. Transportation Research on the Columbia and Snake Rivers, 1979. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Park, D.L., J.R. Smith, G.M. Matthews, L.R. Basham, G.A. Swan, G.T. McCabe, T.R. Ruehle, J.R. Harmon, and B.H. Monk. 1979. Transportation Activities and Related Research at Lower Granite, Little Goose, and McNary Dams, 1978.
 NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Park, D.L., J.R. Smith, E. Slatick, G.M. Matthews, L.R. Basham, and G.A. Swan. 1978. Evaluation of Fish Protective Facilities at Little Goose and Lower Granite Dams and Review of Mass Transportation Activities, 1977. NOAA, National Marine Fisheries Service Report to U.S. Army Corps of Engineers. NMFS. Seattle, Washington.
- Park, D.L., and W.J. Ebel. 1975. Snake River Runs of Salmon and Steelhead Trout: Collection and Transportation Experiments at Little Goose Dam, 1971-75. NOAA, NMFS. Seattle, Washington.
- Parker, P.L., and T.K. King. 1989. 1989 guidelines for evaluation and documenting traditional cultural properties. National Register Bulletin 38, National Park Service, U.S. Department of Interior, Washington D.C.
- Parsley, M.J., and L.G. Beckman. 1994. "Sturgeon Spawning and Rearing Habitat in the Lower Columbia River." *North American Journal of Fisheries Management*. 14:812-827.
- Parsley, M.J, L.G. Beckman, and G.T. McCabe, Jr. 1993. "Spawning and Rearing Habitat Use by White Sturgeons in the Columbia River Downstream from McNary Dam." *Transactions of the American Fisheries Society*. 122: 217-227.
- Peone, T.L., A.T. Scholz, J.R. Griffith, S. Graves, and M.G. Thatcher, Jr. 1990. Lake Roosevelt Fisheries Monitoring Program. Annual Report. Bonneville Power Administration. Portland, Oregon.

- Perkins, J.M., and T. Schommer. Undated. Survey Protocol and an Interim Species Conservation Strategy for Plecotus Townsendii in the Blue Mountains of Oregon and Washington. Wallowa-Whitman National Forest, Baker City, Oregon.
- Perkins, J.M., and C. Levesque. 1987. Distribution, Status, and Habitat Affinities of Townsend's Big-eared Bat (*Plecotus townsendii*) in Oregon. Oregon Department of Fish and Wildlife, Nongame Wildlife Program, Technical Report #86-5-01. 49 pages.
- Perkins, W.A., and M.C. Richmond. 1999. Long-term, One-dimensional Simulation of Lower Snake River Temperatures for Natural River and Current Conditions, Draft Report. Pacific Northwest Laboratory, Richland, Washington.
- Peters, C.N., D.R. Marmorek, and I. Parnell (eds). 1999. PATH Decision Analysis Report for Snake River Fall Chinook. Prepared by ESSA Technologies Ltd., Vancouver, B.C. 317 pages.
- Peters, C., I. Parnell, D. Marmorek, R. Gregory, and T. Eppel (eds). 1998. Conclusions and Recommendations from the PATH Weight of Evidence Workshop, September 8-10, 1998, Vancouver, B.C., Canada. ESSA Technologies Ltd., ValueScope Research, and Decision Insights. October 9, 1998.
- Petersen, J., C. Barfoot, S. Sauter, D. Gadomski, P. Connolly, and T. Poe. 1999.

 Predicting the Effects of Dam Breaching in the Lower Snake River on Predators of Juvenile Salmon. Prepared for U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington. May 1999.
- Petersen, J., and T.P. Poe. 1998. Predicting and Assessing the Effects of Reservoir Drawdown on Juvenile Salmonids and their Predators. Research proposal. Project Number DDS-W-98-4. U.S. Geological Survey, Biological Resources Division, Cook, Washington. 14 pages.
- Petrosky, C.E. 1998a. Smolt-to-Adult Return Rate Estimates of Snake River Aggregate Wild and Hatchery Steelhead. November 30, 1998. Idaho Department of Fish and Game. Boise, Idaho. 8 pages plus attachments.
- Petrosky, C.E. 1998b. Snake River SAR--FGE Sensitivity. Memorandum to C. Toole (NMFS) and Others, Including Attached Spreadsheets STFGESEN.XLS from Idaho Department of Fish and Game. Boise, Idaho. April 3, 1998.
- Petrosky, C.E., and H. Schaller. 1998. Smolt-to-Adult Return Rate Estimates of Snake River Aggregate Wild Spring and Summer Chinook. Submission 10. *In:* D. Marmorek and C. Peters (eds.). PATH Weight of Evidence Report.
- Petrosky, C.E. 1991. Influence of Smolt Migration Flows on Recruitment and Return Rates of Idaho Spring Chinook. Idaho Department of Fish and Game, Boise, Idaho. 23 pages.
- Petrosky, C.E. Unpublished Manuscript. Analysis and Implications of Alternative Flow-Smolt Survival Models to Snake River Spring/Summer Chinook Recovery through Mainstem Velocity Improvements. Idaho Department of Fish and Game. Boise, Idaho. 7 pages.

- Pevar, S.L. 1992. The Rights of Indians and Tribes: The Basic ACLU Guide to Indian and Tribal Rights. Second Edition. An American Civil Liberties Union Handbook. Southern Illinois University Press. Carbondale, Illinois.
- Philpott, W. 1997. Summaries of the Life History of California Bat Species. Sierra National Forest, Pineridge Ranger District.
- Plumb, J., M. Novick, N. Adams, and D. Rondorf. 2000. Behavior of Radio-Tagged Juvenile Chinook Salmon and Steelhead in the Forebay of Lower Granite Dam Relative to the 2000 Surface Bypass Collector and Behavioral Guidance Structure Tests. Project number E 86930151. U.S. Geological Survey, Cook Washington. 48 Pages.
- Poe, T.P., H.C. Hansel, S. Vigg, D.E. Palmer, and L.A. Prendergast. 1991. "Feeding of Predaceaous Fishes on Out-migrating Juvenile Salmonids in John Day Reservoir, Columbia River." *Transactions of the American Fisheries Society.* 120:405-420.
- Poe, T.P., and B.E. Rieman. 1988. Predation by Resident Fish on Juvenile Salmonids in John Day Reservoir, 1983-1986. Vol. 1. Final Report of Research. Bonneville Power Administration. Portland, Oregon.
- Pravecek, J., and K.A. Johnson. 1997. Research and Recovery of Snake River Sockeye Salmon Annual Report for April 1995 to April 1996. Idaho Department of Fish and Game prepared for U.S. Department of Energy. Portland, Oregon. July 1997.
- PSC (Pacific Salmon Commission). 1991. PSC Technical Advisory Committee Report.
- PTI. 1989. Puget Sound Dredged Disposal Analysis Guidance Manual. Data Quality Evaluation for Proposed Dredged Material Disposal Projects (QA-1). Report for Department of Ecology, Olympia, Washington.
- Raymond, H.L. 1979. "Effects of Dams and Impoundments on Migrations of Juvenile Chinook Salmon and Steelhead from the Snake River, 1966 to 1975." Transactions of the American Fisheries Society. 108(6): 505-529.
- Raymond, H.L., and C. Sims. 1980. Assessment of Smolt Migration and Passage Enhancement Studies for 1979. Report to U.S. Army Corps of Engineers, Contract DACW-68-78-C-0051 and DACW-57-79-F-0411. National Marine Fisheries Service, Coastal Zone and Estuarine Studies Division, Seattle, Washington. 48 pages.
- Rieman, B.E., and J.D. McIntyre. 1993. Demographic Habitat Requirements for Conservation of Bull Trout. USDA Forest Service. Intermountain Resarch Station. General Technical Report INT-302.
- Rieman, B.E., R. Beamesderfer, S. Vigg, and T. Poe. 1991. "Estimated Loss of Juvenile Salmonids to Predation by Northern Squawfish, Walleyes, and Smallmouth Bass in John Day Reservoir, Columbia River." *Transactions of the American Fisheries Society.* 120: 448-458.

- Rinaldi, S., R. Soncini-Sessa, H. Stehfest, and H. Tamura. 1979. Modeling and Control of River Quality. McGraw-Hill, Inc., London, England.
- RMC and J.R. Skalski. 1994. Survival of Yearling Fall Chinook Salmon Smolts (*Oncorhynchus tshawytscha*) in Passage through and Kaplan Turbine at the Rocky Reach Hydroelectric Dam, Washington. Prepared for Public Utility District No. 1 of Chelan County, Wenatchee, Washington.
- RMC, Mid Columbia Consulting Inc., and J.R. Skalski. 1994. Turbine Passage Survival of Spring Migrant Chinook Salmon (*Oncorhynchus tshawytscha*) at Lower Granite Dam, Snake River, Washington. Prepared for U.S. Army Corps of Engineers, Walla Walla Distric, Walla Walla, Washington.
- Robberecht, R. 1998. Regeneration Potential of Vegetation on Newly Exposed Riverside Shorelines. Report submitted to U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington, by Department of Range Resources, University of Idaho Press. Moscow, Idaho. 80 pages.
- Roby, D.D., and D.P. Craig. 1998. Avian Predation on Juvenile Salmonids in the Lower Columbia River 1997 Annual Report. Prepared for Bonneville Power Administration and U.S. Army Corps of Engineers. Corvallis, Oregon. September 1998.
- Rocklage, A., and J. Ratti. 1998. Bird Studies Along the Lower Snake River. Prepared for the U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington. Prepared by University of Idaho Press. Moscow, Idaho.
- Roesner, L.A, and W.R. Norton. 1971. A Nitrogen gas (2) Model for the Lower Columbia River. Final Report to the U.S. Army Corps of Engineers, Portland District. National Marine Fisheries, Northwest and Alaska Fisheries Center. Seattle, Washington.
- Rondorf, D.W., and K.F. Tiffan. 1997. Identification of the Spawning, Rearing, and Migratory Requirements of Fall Chinook Salmon in the Columbia River Basin. Prepared by U.S. Geological Survey Biological Resources Division, Cook, WA. Prepared for U.S. Department of Energy Bonneville Power Administration. Portland, Oregon. July. 1997.
- Rondorf, D.W., G.A. Gray, and R.B. Fairly. 1990. "Feeding Ecology of Subyearling Chinook Salmon in Riverine and Reservoir Habitats of the Columbia River". *Transactions of the American Fisheries Society.* 19:16-24.
- Ruby, R.H., and John A. Brown. 1992. *A Guide to the Indian Tribes of the Pacific Northwest*. Revised edition. University of Oklahoma Press. Norman, Oklahoma.
- Sager, J.W. 1989a. "Bonneville Dam." *In: Engineering Geology in Washington, Vol. I. Washington Division of Geology and Earth Resource Bulletin 78.* Pages 337-346.
- Sager, J.W. 1989b. "The Dalles Dam." *In: Engineering Geology in Washington, Vol. I. Washington Division of Geology and Earth Resource Bulletin 78.* Pages 347-352.

- Sager, J.W. 1989c. "John Day Dam." In: Engineering Geology in Washington, Vol. I. Washington Division of Geology and Earth Resource Bulletin 78. Pages 353-358.
- Salo, E.O. 1991. Life History of Chum Salmon, Oncorhynchus keta. In: Groot, C. and L. Margolis (eds.), Pacific Salmon Life Histories. Pages 231-309. University of British Columbia Press, Vancouver, British Columbia, Canada.
- San Juan, C. 1994. Natural Background Soil Metal Concentrations in Washington State. Toxics Cleanup Program, Washington Department of Ecology, Publication Number, 94-115. Olympia, Washington. October 1994.
- Schaller, H.A., C.E. Petrosky, and O.P. Langness. 1999. "Contrasting Patterns of Productivity and Survival Rates for Stream-type Chinook Salmon (*Oncorhynchus tshawytscha*) Populations of the Snake and Columbia Rivers." *Canadian Journal of Fisheries and Aquatic Science*. 56:1031-1045.
- Schiewe, M.H. 1974. "Influence of Dissolved Atmospheric Gas on Swimming Performance of Juvenile Chinook Salmon." *Transactions of the American Fisheries Society*. 103:717-721.
- Schmitten, R. 1995. Proposed Recovery Plan for Snake River Salmon. Prepared for U.S. Department of Commerce, National Oceanic and Atmospheric Administration. March 1995.
- Schmitz, R.A., and W.R. Clark. 1999. "Survival of Ring-necked Pheasant Hens during Spring in Relation to Landscape Features." *Journal of Wildlife Management*. 63(1):147-154. 8 pages.
- Schoeneman, D.E., R.T. Pressey, and C. Junge, Jr. 1961. "Mortalities of Downstream Migrant Salmon at McNary Dam." *Transactions of the American Fisheries Society.* 90:58-72.
- Schrank, B.P., B.A. Ryan, and E.M. Dawley. 1998. Evaluation of the Effects of Dissolved Gas Supersaturation on Fish Residing in the Snake and Columbia Rivers, 1996. Coastal Zone and Estuarine Studies Division, Northwest Fisheries Science Center, National Oceanic and Atmospheric Administration. Seattle, Washington. March 1998.
- Schrank, B.P., B.A. Ryan, and E.M. Dawley. 1997. Evaluation of the Effects of Dissolved Gas Supersaturation on Fish and Invertebrates in Priest Rapids Reservoir and Downstream from Bonneville and Ice Harbor Dams, 1995. Report to the U.S. Army Corps of Engineers. 45 pages. Available from Northwest Fisheries Science Center, National Oceanic and Atmospheric Administration. Seattle, Washington.
- Schrank, B.P., B.A. Ryan, and E.M. Dawley. 1996. Evaluation of the Effects of Dissolved Gas Supersaturation on Fish and Invertebrates in Priest Rapids Reservoir, and Downstream from Bonneville and Ice Harbor Dams, 1995. Report to the U.S. Army Corps of Engineers. Available from Northwest Fisheries Science Center, 2725 Montlake Boulevard East, Seattle, Washington 98112-2097.

- Schreck, C.B., and T.P. Stahl. 1999. Evaluation of Migration and Survival of Juvenile Salmonids Following Transportation, Draft Annual Report for 1998. Corvallis, Oregon. 1999.
- Schreck, C., and J. Congleton. 1994. Evaluation of Facilities for Collection, Bypass and Transportation of Outmigrating Salmonids. Abstract. *In:* U.S. Army Corps of Engineers, 1994 Annual Research Review: Fish Passage Development and Evaluation Program. U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington.
- Schreck, C.B., L.E. Davis, D. Kelsey, J.L. Congleton, and W.J. LaVoie. 1998. Evaluation of Facilities for Collection, Bypass, and Transportation of Outmigrating Chinook Salmon, 1995 Annual Report (Draft). May 1998.
- Schuck, M.L. 1992. Observations on the Effects of Reservoir Drawdown on the Fishery Resource Behind Little Goose and Lower Granite Dams. March, 1992. Report #92-13. Washington Department of Fish and Wildlife. Olympia, Washington. 18 pages.
- Schuck, M.L., and H.T. Kurose. 1992. South Fork Toutle River Fish Trap Operation and Salmonid Investigations, 1981-1982. Final Report submitted to the U.S. Army Corps of Engineers. Portland District. Portland, Oregon.
- Scott, W.B., and E.J. Crossman. 1973. "Freshwater Fishes of Canada." Bulletin 184. Journal of the Fisheries Research Board of Canada. Ottawa.
- Servizi, J.A., and D.W. Martens. 1987. Some Effects of Suspended Fraser River Sediments on Sockeye Salmon (*Oncorhynchus nerka*). Department of Fisheries and Oceans, Fisheries Research Branch, Cultus Lake Salmon Research Laboratory, Cultus Lake, British Columbia, Canada.
- Sherwood, CR., D.A. Jay, R.B. Harvey, P. Hamilton, and C.A. Simenstadt. 1990. "Historical Changes in the Columbia River Estuary." *Progressive Oceanography.* 25:229-352.
- Shirahata, S. 1966. Experiments on Nitrogen Gas Disease with Rainbow Trout Fry. Bulletin of the Freshwater Fisheries Research Laboratory (Tokyo), 15: 197-211.
- Shrimpton, J.M., D.J. Randall, and L.E. Fidler. 1990a. "Factors Affecting Swim Bladder Volume in Rainbow Trout (*Oncorhynchus mykiss*) Held in Gas Supersaturated Water." *Canadian Journal of Zoology*. 68:962-968.
- Shrimpton, J.M. 1990b. "Assessing the Effects of Positive Buoyancy on Rainbow Trout (*Oncorhynchus mykiss*) Held in Gas Supersaturated Water." *Canadian Journal of Zoology*. 68:969-973.
- Sims, C., A. Giorgi, R. Johnsen, and D. Brege. 1983. Migrational Characteristics of Juvenile Salmon and Steelhead in the Columbia Basin, 1982. Final Report to the U.S. Army Corps of Engineers, National Oceanic and Atmospheric Administration, National Marine Fisheries Services. 35 pages plus appendices.

- Sims, C.W. and F.J. Ossiander. 1981. Migration of Juvenile Chinook Salmon and Steelhead in the Snake River, from 1973 to 1979, A Research Summary. Final Report. Contract No. DACW68-78-C-0038. Prepared for U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington. 31 pages.
- Smith, S.G., and J. Williams. 1999. NMFS Methods for Estimating Survival through the Hydrosystem 1966-1980 and 1993-1998. Manuscript, March 11, 1999.
 Northwest Fisheries Science Center, National Marine Fisheries Service. Seattle, Washington. 11 pages.
- Smith, S.G., and Other Authors. 1998. Draft Report of 1998 Smolt Survival Studies. National Marine Fisheries Service. Seattle, Washington.
- Smith, M.R., P.W. Mattocks, Jr., and K.M. Cassidy. 1997. Breeding Birds of Washington State. Volume 4 in Washington State Gap Analysis—Final Report, Seattle Audubon Society Publications in *Zoology No. 1*. Seattle, Washington. 538 pages.
- Speare, D.J. 1990. "Histopathology and Ultrastructure of Ocular Lesions Associated with Gas Bubble Disease in Salmonids." *Journal of Comparative Pathology*. 103(4): 421-432.
- Stalmaster, M.V. 1976. Winter Ecology and Effects of Human Activity on Bald Eagles in the Nooksack River Valley, Washington. M.S. Thesis. Western Washington State College. 100 pages.
- State of Oregon, Office of Economic Analysis, Department of Administrative Services. 1997. County Population Forecasts. Accessed at http://www.oea.das.state.or.us/county/co pop.htm.
- State of Washington, Office of Financial Management. 1999. Washington State County Population Projections by Age and Sex: 1990-2020. Accessed at http://www.ofm.wa.gov/pop902020.
- Steward, C.R. 1994. Assessment of the Flow-Survival Relationship Obtained by Sims and Ossiander (1981) for Snake River Spring/Summer Chinook Salmon Smolts. Prepared for U.S. Department of Energy, Bonneville Power Administrations, Division of Fish and Wildlife. Portland, Oregon. April 1994.
- Stober, Q. B. Ross, C. Melby, P. Dinnel, T. Jagielo and E. Salo. 1981. Effects of Suspended Volcanic Sediment on Coho and Chinook Salmon in the Toutle and Cowlitz Rivers. FRI-UW-8124. Fisheries Research Institute, University of Washington, Seattle, Washington.
- Stober, Q.J., M.R. Griben, R.V. Walker, A.L. Setter, I. Nelson, J.C. Gislason, R.W. Tyler, and E.O. Salo. 1979. Columbia River Irrigation Withdrawal Environmental Review: Columbia River Fishery Study. Final Report FRI-UW-7919 to U.S. Army Corps of Engineers.
- Stocker, M., and D. Peacock (Eds). 1998. Report of the PSARC Salmon Subcommittee Meeting April 27 to May 1, 1998. Fisheries and Oceans Canada, Prince Rupert, British Columbia. V8J 1GB.

- Stroud, R.K., G.R. Bouck, and A.V. Nebeker. 1975. Pathology of Acute and Chronic Exposure of Salmonid Fishes to Supersaturated Water. *In:* W.A. Adams (ed.), pages 435-489. *Chemistry and Physics of Aqueous Gas Solutions*. The Electrochemical Society. Princeton, New Jersey.
- Sullivan, K., T.E. Lisle, C.A. Dollof, G.E. Grant, and L.M. Reid. 1987. Stream Channels: The Link Between Forests and Fishes. Pages 98-142 in E.O. Salo and T.W. Cundy (eds.). *Streamside Management: Forestry and Fisheries Interaction*. Control Number 57, Institute of Forest Resources, University of Washington Press. Seattle, Washington.
- Taki, D., and A. Mikkelsen. 1997. Snake River Sockeye Salmon Habitat and
 Limnological Research. Prepared by the Shoshone-Bannock Tribes, Fort Hall,
 Idaho for the Bonneville Power Administration, Portland, Oregon. Project No. 91-71. April 1997.
- Taylor, G.H., and C. Southards. 1997. Long-term Climate Trends and Salmon Population. Oregon Climate Service, Oregon State University. Corvallis, Oregon.
- Taylor, D.M., and C.H. Trost. 1992. "Use of Lakes and Reservoirs by Migrating Shorebirds in Idaho." *Great Basin Naturalist.* 52(2):179-184.
- Taylor, E. B. 1988. "Water Temperature and Velocity as Determinants of Microhabitats of Juvenile Chinook and Coho Salmon in a Laboratory Stream Channel." Transactions of the American Fisheries Society. 117:22-28.
- The Federal Caucus. 2001. Conservation of Columbia Basin Fish—Final Basinwide Salmon Recovery Strategy, Volume 1. December 2000. 85 pages.
- The Research Group. 2000. Local Economic Impacts from Alternative Hydrosystem Actions being Considered for the Lower Snake River Dams, and the Economic Consequences of not Increasing Production and Survival Rates of Columbia River Anadromous Fish Runs. Report prepared for the National Marine Fisheries Service, Northwest Fisheries Science Center. September.
- Thomas, J.W. (ed.). 1979. Wildlife Habitats in Managed Forests in the Blue Mountains of Oregon and Washington. Agricultural Handbook No. 553. USDA Forest Service. 512 pages.
- Thompson, D.Q. 1989. Control of Purple Loosestrife. U.S. Fish and Wildlife Service, Fish and Wildlife Leaflet 13. Washington, D.C. 6 pages.
- Tiffan, K.F., R.D. Garland, and D.W. Rondorf. Chapter Five. Osmoregulatory Performance and Migration Behavior of Subyearling Chinook Salmon. U.S. Geological Survey, Biological Resources Division, Northwest Biological Science Center, Columbia River Research Laboratory, Cook, Washington.

- Toner, M.A., and E.M. Dawley. 1995a. Evaluation of the Effects of Dissolved Gas Supersaturation on Fish and Invertebrates Downstream from Bonneville Dam, 1993. Prepared for U.S. Army Corps of Engineers. 39 pages. Available from Northwest Fisheries Science Center, 2725 Montlake Boulevard East, Seattle, Washington 98112-2097.
- Toner, M.A., E.M. Dawley, and B.A. Ryan. 1995b. Evaluation of the Effects of Dissolved Gas Supersaturation on Fish and Invertebrates Downstream from Bonneville, Ice Harbor, and Priest Rapids Dams, 1994. Report to the U.S. Army Corps of Engineers. 43 pages. Available from Northwest Fisheries Science Center, 2725 Montlake Boulevard East, Seattle, Washington 98112-2097.
- TVA and Marshall University. 1998. The Incremental Cost of Transportation Capacity in Freight Railroading: An Application to the Snake River Basin. The Tennessee Valley Authority and the Center for Business and Economic Research, Lewis College of Business, Marshall University. Report to the U.S. Army Corps of Engineers, Institute of Water Resources. Walla Walla District, Walla Walla, Washington. July.
- University of Idaho, Agricultural Enterprises, Inc., and Normandeau Associates. 1998. Sport Fishery Use and Value on Lower Snake River Reservoirs. Phase I Report: Volume 2 of 2, Reservoir Sport Fishery during 1997. Draft Report. Contract number DACW69-96-D-003. Prepared for the U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington. 76 pages.
- U.S. Bureau of Economic Analysis (U.S. Department of Commerce, Bureau of Economic Analysis). 1999. Regional Economic Informational System, 1969-1997. Accessed at http://fisher.lib.virginia.edu/reis/.
- U.S. Census Bureau (U.S. Department of Commerce, Bureau of the Census). 2000a. State and County QuickFacts. Accessed at http://quickfacts.census.gov/qfd/.
- U.S. Census Bureau. 2000b. GCT-PL Race and Hispanic or Latino. Census 2000 Redistricting Data (Public Law 94-171) Summary File. Accessed at http://factfinder.census.gov/.
- U.S. Census Bureau. 1999. ST-99-2 State Population Estimates and Demographic Components of Population Change: April 1, 1990 to July 1, 1999. Population Estimates Program, Population Division. Internet Release Date: December 29, 1999. Accessed at http://www.census.gov/.
- U.S. Census Bureau. 1992. Census for Agriculture. Accessed at http://www.census.gov.
- U.S. Census Bureau. 1970, 1980, 1990. Census of Population Social and Economic Characteristics. U.S. Government Printing Office. Washington D.C.
- U.S. Department of Commerce. 2000a. Regional Economic Information System 1969-1998. Table CA25. Bureau of Economic Analysis, Washington D.C. Accessed at http://fisher.lib.virginia.edu/reis.

- U.S. Department of Commerce. 2000b. Regional Economic Information System 1969-1998. Table CA05. Bureau of Economic Analysis, Washington D.C. Accessed at http://fisher.lib.virginia.edu/reis.
- USDA Forest Service and BLM (U.S. Department of Agriculture, Forest Service; and U.S. Department of the Interior, Bureau of Land Management). 1997. Interior Columbia Basin Ecosystem Management Project. Draft Eastside Environmental Impact Statement, Volume 1. Accessed at http://www.icbemp.gov/html/ east_eis.html and Upper Columbia River EIS and http://www.icbemp.gov/html/ ucrb_eis.html.
- USDA Forest Service and Washington State Energy Facility Site Evaluation Council. 1998. Cross Cascade Pipeline. Draft Environmental Impact Statement. September.
- USFWS (U.S. Fish and Wildlife Service). 1999. Endangered and Threatened Wildlife and Plants; Final Rule to List the Plant *Thelypodium Howellii* ssp. *Spectabilis* (Howell's Spectacular Thelypody) as Threatened. *Federal Register*. 64(101):28393-28403.
- USFWS. 1998a. Fish and Wildlife Coordination Act Report for the U.S. ACOE Lower Snake River Juvenile Salmon Migration Feasibility Study—Draft. U.S. Fish and Wildlife Service, Upper Columbia River Basin Office, Columbia River Fisheries Program Office, Idaho Fishery Resource Office. 220 pages.
- USFWS. 1998b. Draft EIS on the Reintroduction of Grizzly Bears into the Bitterroot Ecosystem. U.S. Fish and Wildlife Service.
- USFWS. 1998c. Idaho Wolf Update–October 19, 1998. U.S. Fish and Wildlife Service, Snake River Basin Office. Accessed at http://www.fws.gov/r1srbo/SRBO/Wolf_upd.htm.
- USFWS. 1998d. Endangered and Threatened Wildlife and Plants: Proposal to List the Contiguous United States Distinct Population Segment of the Canada Lynx; Proposed Rule. *Federal Register*. 63(130):36993-37013.
- USFWS. 1998e. Listed and Proposed Endangered and Threatened Species and Species of Concern which may Occur in the Vicinity of the Primary and Secondary Impact Areas of the Lower Snake River Feasibility Study. FWS Reference: 1-9-99-SP-040, & 1-4-99-SP-24. December 3, 1998.
- USFWS. 1997. Wildlife Monitoring Study of the John Day Pool from 1994 to 1996. Unpublished Report. Mid-Columbia River Refuge Complex, U.S. Fish and Wildlife Service, Umatilla, Oregon.
- USFWS. 1996. Final Rule; Reclassification of *Mirabilis Macfarlanei* (MacFarlane's four-o'clock) from Endangered to Threatened Status. 50 CFR Part 17. March 15, 1996.
- USFWS. 1995. Final Report for the HSI Validation Study for the Lower Snake River Fish and Wildlife Compensation Plan. Prepared for the U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington.

- USFWS. 1994a. Final Rule Determining the Plant, Water Howellia (*Howellia aquatilis*), to be A Threatened Species. 50 CFR Part 17, July 14, 1994.
- USFWS. 1994b. Final Rule Establishing a Nonessential Experimental Population of Gray Wolves in Yellowstone National Park in Wyoming, Idaho, Montana, Central Idaho and Southwestern Montana. Federal Register, Volume 59, November 22, 1994.
- USFWS. 1993. Grizzly Bear Recovery Plan. Missoula, Montana. 181 pages.
- USFWS. 1992. Endangered and Threatened Wildlife and Plants: Final Rule to List the Plant *Spiranthes diluvialis* (Ute ladies' tresses) as a Threatened Species. *Federal Register.* 57(12):2048-2054.
- USFWS. 1991. Special Report—Lower Snake River Fish and Wildlife Compensation—Wildlife Compensation Evaluation for the Lower Snake River Project, U.S. Fish and Wildlife Service, Boise, Idaho. Prepared for U.S. Army Corps of Engineers, Walla Walla District, Walla Walla, Washington and Washington Department of Wildlife. Pasco, Washington. 59 pages.
- USFWS. 1987. Northern Rocky Mountain Wolfe Recovery Plan. U.S. Fish and Wildlife Service. Denver, Colorado. 119 pages.
- USFWS. 1986. Pacific Bald Eagle Recovery Plan. U.S. Fish and Wildlife Service, Portland, Oregon. 160 pages.
- USFWS. 1978. Supplemental Enhancement Report to the Corps of Engineers for the 1972 Mitigation Report "A Special Report on the Lower Snake River Dams, Washington and Idaho." U.S. Fish and Wildlife Service. Olympia, Washington.
- Van Hyning, J.M. 1968. Factors Affecting the Abundance of Fall Chinook Salmon in the Columbia River. Oregon State University. Ph.D. Thesis. 424 pages.
- Venditti, D.A., D.W. Rondorf, and J.M. Kraut. 2000. Migratory Behavior and Forebay Delay of Radio-tagged Juvenile Fall Chinook Salmon in a Lower Snake River Impoundment. *North American Journal of Fisheries Management*. 20:41-52.
- Venditti, D.A., J.M. Kraut, D.W. Rondorf. 1997a. Chapter Three. Behavior of Junvenile Fall Chinook Salmon in the Forebay of a Lower Snake River Reservoir. U.S. Geological Survey, Biological Resources Division, Columbia River Research Laboratory. Cook, Washington.
- Venditti, D.A., M.A. Tennier, D.W. Rondorf. 1997b. Chapter Four. Nearshore Movements of Juvenile Fall Chinook Salmon in the Columbia River. U.S. Geological Survey, Biological Resources Division, Columbia River Research Laboratory. Cook, Washington.
- Vigg, S.T., P. Poe, L.A. Prendergast, and H.C. Hansel. 1991. Rates of Consumption of Juvenile Salmonids and Alternative Prey Fish by Northern Squawfish, Walleyes, Smallmouth Bass, and Channel Catfish in John Day Reservoir, Columbia River. Transactions of the American Fisheries Society. 120:421-438.

- WA DNR (Washington Department of Natural Resources). 1997. Board Manual: Standard Methodology for Conducting Watershed Analysis Under Chapter 222-22 WAC. Washington Forest Practices Board. Version 4.0. November.
- Wahlers, R. 1998. Agricultural Workforce in Washington State 1997. Washington State Employment Security, Labor Market and Economic Analysis Branch.
- Wallen, E.I. 1951. The Direct Effect of Turbidity on Fishes. Oklahoma Agricultural and Mechanical College, Arts and Sciences Studies, Biological Series 48(2).
- Wantanabe, M., and T. Nitta. 1999. Abrupt Shifts in the Atmospheric Circulation and Associates Decadal Climate Variations in the Northern Hemisphere Winter: A Diagnostic Study. J. Climate (ed.).
- Waples, R.S. 1991. Pacific Salmon, *Oncorhynchus* spp., and the Definition of "Species" Under the Endangered Species Act. *In: Marine Fisheries Review.* Vol. 53, No. 3.
- Waples, R.S., R.P. Jones, Jr., B.R. Beckman, and G.A. Swan. 1991. Status Review for Snake River Fall Chinook Salmon. NOAA Technical Memorandum NMFS F/NWC-201. National Marine Fisheries Service. Seattle, Washington. 73 pages.
- Ward, D.L., R.R. Boyce, F.R. Young, and F.E. Olney. 1997. "A Review and Assessment of Transportation Studies for Juvenile Chinook Salmon in the Snake River." *North American Journal of Fisheries Management*. 17:652-662.
- Ware, J.A. 1989. Archaeological Inundation Studies: Manual for Reservoir Managers. U.S. Army Corps of Engineers.
- Washington State Employment Security. 2000. Agricultural Workforce in Washington State 1999. Prepared by the Economic and Policy Analysis Unit and the Agricultural Labor Market Information Unit. June.
- Washington Department of Fisheries. 1994. Upstream Passage, Spawning, and Stock Indentification of Fall Chinook Salmon in the Snake River. 1992. Annual Report FY 92-93. H.L. Blankenship and G. W. Mendel (eds.). Prepared for U.S. Department of Energy Bonneville Power Administration, Division of Fish and Wildlife. Project No. 92-046. February 1994.
- Washington State Department of Transportation. 1997. 1997 Annual Traffic Report. Washington State Department of Transportation.
- WDFW (Washington Department of Fish and Wildlife) and Western Washington Treaty Indian Tribes. 1998. Washington State Salmonid Stock Inventory. Appendix Bull Trout and Dolly Varden. Washington Department of Fish and Wildlife. Olympia, Washington.
- WDFW. 1999a. Management Recommendations for Washington's Priority Species, Volume IV: Birds. Priority Habitats and Species Program, Washington Department of Fish and Wildlife, Olympia, Washington. Accessed at http://www.wa.gov/wdfw/hab/phs/vol4/birdrecs.htm.

- WDFW. 1999b. Washington Department of Fish and Wildlife List of Candidate Species. Accessed at http://www.wa.gov/wdfw/wlm/diversty/soc/candidat.htm.
- WDG (Washington Department of Game). 1984. Status Report on Wildlife Mitigation: Lower Snake River Project. Report prepared for Bonneville Power Administration by Washington Department of Game and U.S. Fish and Wildlife Service. Section L.
- WDW (Washington Department of Wildlife). 1993. Status of the North American lynx (*Lynx canadensis*) in Washington. Unpublished Report. Washington Department of Wildlife. Olympia, Washington. 101 pages.
- Weber, J.W., and E.J. Larrison. 1977. *Birds of Southeastern Washington*. University of Idaho Press. Moscow, Idaho.
- Weber, K.G. 1954. Testing the Effect of a Bonneville Draft Tube on Fingerling Salmon. U.S. Fish and Wildlife Service. Seattle, Washington.
- Weitkamp, D.E., and M. Katz. 1980. "A Review of Dissolved Gas Supersaturation Literature." *Transactions of the American Fisheries Society.* 109:659-702.
- Welch, D. 1999. NW Fishletter. NWWF 075. February 9, 1999. Accessed at http://www.newsdata.com/enernet/fishletter/fishltr75.html.
- Welch, D.W., B. Ward, B. Smith, and J. Eveson. *In:* Press. Influence of the 1989/90 Ocean Climate Shift on British Columbia Steelhead *(Oncorhynchus mykiss)* Populations. Fisheries Oceanography.
- White, R.G., G. Phillips, G. Liknes, J. Brammer, W. Connor, L. Fidler, T. Williams, and W.P. Dwyer. 1991. Effects of Supersaturation of Dissolved Gases on the Fishery of the Bighorn River Downstream of the Yellowtail Afterbay Dam. Prepared for U.S. Department of the Interior, Bureau of Reclamation, Missouri Basin, Region 6. April 1991.
- Williams, J., S. Smith, and W. Muir. 2001. "Survival Estimates for Downstream Migrant Yearling Juvenile Salmonids through the Snake and Columbia Rivers Hydropower System, 1966-1999." *North Amercian Journal of Fisheries Management*. 21:310-317. NMFS. Northwest Fisheries Science Center, Fish Ecology Division. Seattle, Washington.
- Williams, J.G., and T.C. Bjornn (Eds.). 1998. Fall Chinook Salmon Survival and Supplementation Studies in the Snake River and Lower Snake River Reservoirs, 1996. Prepared for U.S. Department of Energy and Bonneville Power Administration.
- Williams, J., G. Matthews, J. Myers, S.G. Smith, T. Cooney, and C. Toole. 1998a.

 Hatchery "Extra Mortality" Hypothesis. Submission 1 to the PATH Weight of Evidence Report, appendices.
- Williams, J., G. Matthews, J. Myers, S.G. Smith, and C. Toole. 1998b. Estimate of SARs of Snake River Spring Chinook Salmon. Submission 9 to the PATH Weight of Evidence Report, appendices.

- Williams, J.G., G.M. Matthews, and J.M. Myers. 1997. The Columbia River Hydropower System: Does It Limit Recovery of Spring/Summer Chinook Salmon? (Draft Report). NOAA, Coastal Zone and Estuarine Studies Division, National Marine Fisheries Service. Seattle, Washington.
- Williams, J.G., and G.M. Matthews. 1995. "A Review of Flow and Survival Relationships for Spring and Summer Chinook Salmon, *Oncorhynchus tshawytscha*, from the Snake River Basin." *Fisheries Bulletin*, U.S. 93:732-740. Bethesda, Maryland.
- Williams, R.N., and 12 Coauthors. 1999. "Scientific Issues in the Restoration of Salmonid Fishes in the Columbia River." *Fisheries Bulletin*. 24:10-19.
- Wittinger, R., J. Ferguson, and T. Carlson. 1995. Proceedings, Turbine Fish Passage Survival Workshop May 31 to June 1, 1995. Sponsored by U.S. Army Corps of Engineers. Portland, Oregon. October 1995.
- Wood, C.M. 1995. Fulfilling the Executive's Trust Responsibility Toward the Native Nations on Environmental Issues: A Partial Critique of the Clinton Administration's Promises and Performance. *In:* Environmental Law, Vol. 25, No. 3, pages 733-800.
- WRC (U.S. Water Resources Council). 1983. Economic and Environmental Principles and Guidelines for Water and Related Land Resources Implementation Studies.
- Wydoski, R.S., and R.R. Whitney. 1979. Inland Fishes of Washington. University of Washington Press. Seattle, Washington. 220 pages.
- Yearsley, J. 1999. Columbia River Temperature Assessment Simulation Methods. EPA Region 10 Draft Review Report. Seattle, Washington.
- Yocum, C.F. 1961. Recent Changes in Canada Goose Populations in Geographical Areas in Washington. Murrelet. 42:13-21.
- Young, M.K., W.A. Hubert, and T.A. Wesche. 1991. "Selection of Measures of Substrate Composition to Estimate Survival to Emergence of Salmonids and to Detect Changes in Stream Substrates." *North American Journal of Fisheries Management.* 11: 339346.
- Zimmerman, M.A., and L.A. Rasmussen. 1981. Juvenile Salmonid Use of Three Columbia River Backwater Areas Proposed for Subimpoundment. U.S. Fish and Wildlife Service, Portland Field Office. Portland, Oregon. 27 pages.
- Zimmerman, M.P., and R.M. Parker. 1995. "Relative Density and Distribution of Smallmouth Bass, Channel Catfish, and Walleye in the Lower Columbia and Snake Rivers." *NW Science*. 69:19-28.