

# References

1. *Administrative Law Journal*, "Regulatory Inertia: FERC's Failure to Consider Endangered Species' Protection in the Issuance of Hydroelectric Annual Licenses: *Platter River Whooping Crane Critical Habitat Maintenance Trust v. FERC*," 4:321–360, fall 1990.
2. Ahlstrom, E.H., "Distribution and Abundance of Egg and Larval Populations of the Pacific Sardine," *U.S. Fish and Wildlife Fishery Bulletin* 56:83–140, 1954.
3. Alderdice, D.F., and Jensen, J.O.T., "Assessment of the Influence of Gas Super-saturation on Salmonids in the Nechako River in Relation to Kemano Completion," *Canadian Technical Report on Fish and Aquatic Sciences*, 1386:48, 1985.
4. Altufyev, Y.V., et al., "Analysis of the Beluga Sturgeon, *Huso huso*, Below the Vologograd Hydroelectric Power Station Dam and in the Mashkina Kosa Overwintering Depression," *Fishes of Wisconsin*, G.C. Becker (ed.), (Madison, WI: University of Wisconsin Press, 1983).
5. American Fisheries Society, *Handbook on the Valuation of Fish Kills* (Bethesda, MD: American Fisheries Society, 1992).
6. Anderson, J., et al., "Measurement of the Low Frequency Sound at Bonneville, McNary, and Lower Granite Dams," FRI-UW-8906 (Seattle, WA: University of Washington, Fish Research Institute, 1989).
7. Athearn, J.B., "Developments in Transportation from Dams to Improve Juvenile Salmonid Survival," *Fisheries Bioengineering Symposium* (Portland, OR: American Fisheries Society, 1991).
8. Auer, N.A., "Lake Sturgeon Studies—Prickett Hydroelectric Project," a report prepared for Stone and Webster Engineering Corporation, Boston, MA, 1990.
9. Auer, N.A., "Addressing Critical Spawning Needs of the Sturgeon River Lake Sturgeon," a report prepared for the Upper Peninsula Power Company, Ann Arbor, MI, 1989.
10. Auer, N.A., "Survey of the Sturgeon River, Michigan Lake Sturgeon Population," Michigan Department of Natural Resources, Non-game Wildlife Fund and Living Resources Small Grants Program Report, (Ann Arbor, MI: 1988).
11. Auer, N.A., "Evaluation of a Lake Sturgeon Population," Michigan Department of Natural Resources, Nongame Wildlife Fund and Living Resources Small Grants Program Report, (Ann Arbor, MI: 1987).
12. Bates, K.M., Staff Engineer, Habitat Management Division, Department of Fisheries, Olympia, WA, personal communication, August 1995.
13. Bates, K.M., Staff Engineer, Habitat Management Division, Department of Fisheries, Olympia, WA, personal communication, November 1994.
14. Bates, K.M., "Fish Passage Policy and Technology," *Fisheries Bioengineering Symposium* (Portland, OR: American Fisheries Society, September 1993).
15. Bates, K.M., "Fishway Design Guidelines for Pacific Salmon," working paper (Olympia, WA: Washington Department of Fish and Wildlife, March 1992).

- 15a. Becker, C.D., ed., *Fisheries Laboratories of North America*, American Fisheries Society, Bethesda, MD, 1991.
16. Bell, M.C., *Fisheries Handbook of Engineering Requirements and Biological Criteria*, 3d Ed. (Portland, OR: U.S. Army Corps of Engineers, North Pacific Division, 1991).
17. Bell, M.C., *Updated Compendium on the Success of Passage of Small Fish Through Turbines* (Portland, OR: U.S. Army Corps of Engineers, 1981).
18. Bell, C.E. and Kynard, B., "Mortality of Adult American Shad Passing Through a 17-Megawatt Kaplan Turbine at a Low-Head Hydroelectric Dam," *North American Journal of Fisheries Management* 5:33–38, 1985.
19. Bell, M.C., DeLacy, A.C., and Paulik, G.C., *A Compendium on the Success of Passage of Small Fish Through Turbines* (Portland, OR: U.S. Army Corps of Engineers, 1967).
20. Bengeyfield, W., "Evaluation of an Electrical Field to Divert Coho Salmon Smolts from the Penstock Intake at Puntledge Generating Station," Global Fisheries Consultants Ltd., a report prepared for B.C. Hydro, (Vancouver, BC, Canada: 1993).
21. Bisulca, P., Assistant to the Governor, Environmental Affairs, Penobscot Indian Nation, Oxford, ME, personal communication, August 1995.
22. Blaxter, J.H.S. and Batty, R.S., "Comparison of Herring Behavior in the Light and Dark, Changes in Activity and Responses to Sound," *Journal of the Marine Biology Association U.K.*, 67:849–860, 1987.
23. Bonneville Power Administration, U.S. Army Corps of Engineers, U.S. Department of the Interior, Bureau of Reclamation, *Columbia River System Operation Review Draft Environmental Impact Statement, Appendix C-2, Juvenile Fish Transportation* (Portland, OR: Bonneville Power Administration, July 1994).
24. Bouck, G.R., and Smith, S.D., "Mortality of Experimentally Descaled Smolts of Coho Salmon (*Oncorhynchus kisutch* I) in Fresh and Salt Water," *Transactions of the American Fisheries Society* 108: 67–69, 1979.
25. Brett, J.R., and Mackinnon, K.D., "Preliminary Experiments Using Lights and Bubbles to Deflect Migrating Young Spring Salmon," *Journal of the Fisheries Research Board Canada* 10:548–59, 1953.
26. Brookshire, P.A.M., Senior Project Manager, U.S. Department of Energy, personal communication, October 1994.
27. Brown, R., Marketing/Sales Manager, Flash Technology, personal communication, March 1995.
28. Brousseau, C.S. and Goodchild, G.A., "Fisheries and Yields in the Moose River Basin, Ontario," *Proceedings of the International Large River Symposium, Canadian Special Publication on Fish and Aquatic Science*, D.P. Dodge (ed.), 106:145–158, 1989.
29. Brush, T., Manager, Brattleboro Office, Normandeau Associates, personal communication, August 1995.
30. Brush, T.D., Mathur, D., and Heisey, P.G., "Entrainment Survival of Fishes at Hydro Projects," paper presented at Hydro's Leading Edge Technology Symposium, Phoenix, AZ, Aug. 15–16, 1994.
31. Buckley, J., and Kynard, B., "Yearly Movements of Shortnose Sturgeons in the Connecticut River," *Transactions of the American Fisheries Society* 114:813–20, 1985.
32. Buerkett, C.G., "Passage and Behavior of Adult American Shad in an Experimental Louver Bypass System," unpublished dissertation, University of Massachusetts, Boston, MA, 1994.
33. Burner, C.J., and Moore, H.L., "Attempts to Guide Small Fish With Underwater Sound," U.S. Fish and Wildlife Service, Special Science Report on Fisheries, 111:38, 1953.
34. Cada, G.F., Aquatic Ecologist, Oak Ridge National Laboratory, personal communication, August 1995.
35. Cada, G.F., "A Review of Studies Relating to Effects of Propeller-Type Turbine Passage on Fish Early Life Stages," *North*

- American Journal of Fisheries Management* 10:418–26, 1990.
36. Cada, G.F., and Sale, M.J., “Status of Fish Passage Facilities at Nonfederal Hydro-power Projects,” *Fisheries* 18(7):4–12, July 1993.
  37. Cada, G.F., and Jones, D.W., “Benefits of Fish Passage and Protection Measures at Hydroelectric Projects,” *Waterpower '93, Proceedings of the International Conference on Hydropower*, Volume I, W.D. Hall (ed.) (Nashville, TN: National Hydropower Association, 1993).
  38. California Department of Fish and Game, *General Fish Screening Criteria*, Sacramento, CA, February 1993.
  39. Carlson, T., Lead Scientist, Aquatic Ecology Group, Pacific Northwest Labs, Richland, WA, personal communication, August 1995.
  40. Carlson, T., “Overview of the Aspects of Adult and Juvenile Migrating Fish Passage and Protection Technologies Within the Columbia River Basin,” unpublished contractor report prepared for the Office of Technology Assessment, U.S. Congress, Washington, DC, July 1995.
  41. Central Maine Power Company, “Kennebec River Developers Group 1991: Annual Report in Support of Restoration of Anadromous Fish to the Kennebec River, Maine,” Central Maine Power, Co., ME, Feb. 28, 1992.
  42. Christensen, P.J., “Rerouting Fish Traffic in the Columbia River Basin,” *Hydro Review*, July 1995, pp. 96–102.
  43. Cochran, C.H., “Environmental Enforcement at FERC—A Bird’s-Eye View,” *Natural Resources and Environment*, spring 1994, pp. 14–16, 56–57.
  44. Colle, D.E., Cailteux, R.L. and Shireman, J.V., “Distribution of Florida Largemouth Bass in a Lake after Elimination of all Submersed Aquatic Vegetation,” *North American Journal of Fisheries Management* 9:213–18, 1989.
  - 44a. Columbia Basin Indian Tribes and the State and Federal Fish and Wildlife Agencies, “Scientific Rationale for Implementing a Summer Program to Increase Juvenile Salmonid Survival in the Snake and Columbia Rivers,” by the Columbia Inter-Tribal Fish Commission, ID Dept. of Fish and Game, OR Dept. of Fish and Wildlife, WA Dept. of Fish and Wildlife, and U.S. Fish and Wildlife Service, 1995.
  45. Copeland, J.R. and Noble, R.L., “Movements by Young-of-Year and Yearling Largemouth Bass and Their Implications for Supplemental Stocking,” *North American Journal of Fisheries Management* 14:119–24, 1994.
  46. Cramer, S.P. and Associates, Inc., “Evaluation of Sound and Electrical Fish Guidance Systems at Wilkins Slough Diversion Operated by Reclamation District 108,” March 1994.
  47. Dawley, E.M. and Ebel, W.J., “Effects of Various Concentrations of Dissolved Atmospheric Gas on Juvenile Chinook Salmon and Steelhead Trout,” *Fisheries Bulletin* 73(4):787–796, 1975.
  48. Dewey, M.R., and Moen, T.E., “Entrainment of Larval Fish from DeGray Lake, Arkansas, During Epilimnial and Hypolimnial Discharges,” *Proceedings of the DeGray Lake Symposium*, Technical Report E-87-4, R.H. Kennedy and J. Nix (eds.) U.S. Army Corps of Engineers, Waterways Experiment Station (Vicksburg, MS: 1987).
  49. DeWitt, T., Office of Hydropower Licensing, Federal Energy Regulatory Commission, personal communication, August 1995.
  50. Dolat, S., Vice President, Acoustic Systems, Sonalysts, Inc., personal communication, October 1994.
  51. DuBois, R.B., and Gloss, S.P., “Mortality of Juvenile American Shad and Striped Bass Passed Through Ossberger Crossflow Turbines at a Small-scale Hydroelectric Site,” *North American Journal of Fisheries Management* 13:178–85, 1993.
  - 51a. Dunning, et al., “Alewives avoid high-frequency sound,” *North American Journal of Fisheries Management* 12:407–16, 1992.

52. Ebel, W.J., et al., "Effect of Atmospheric Gas Supersaturation Caused by Dams on Salmon and Steelhead Trout of the Snake and Columbia Rivers," National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Northwest Fisheries Center report, 1975.
53. Eicher, G., President, Eicher Associates, personal communication, April 1995.
54. Eicher, G., President, Eicher Associates, personal communication, January 1995.
55. Eicher, G.C., "Turbine Related Fish Mortality," *Proceedings of the Workshop on Fish Passage at Hydroelectric Developments*, D.A. Williams, et al., (eds.) (St. John's, Newfoundland: 1993).
56. Eicher, G.J., "Fish Passage," *A Century of Fisheries in North America*, N.G. Benson (ed.) Special Publication 7 (Bethesda, MD: American Fisheries Society, 1970).
57. Electric Power Research Institute (EPRI), "Fish Protection/Passage Technologies Evaluated by EPRI and Guidelines for Their Application," prepared by Stone and Webster Engineering Corporation, Boston, MA, EPRI TR-104120, Project 2694-01, Final Report, May 1994.
58. Electric Power Research Institute (EPRI), "Biological Evaluation of a Modular Inclined Screen for Protecting Fish at Water Intakes," prepared by Stone and Webster Engineering Corporation, Boston, MA, EPRI TR-104121, Project 2694-01, Final Report, May 1994.
59. Electric Power Research Institute (EPRI), "Research Update on Fish Protection Technologies for Water Intakes," prepared by Stone and Webster Engineering Corporation, Boston, MA, EPRI TR-104122, Project 2694-01, Final Report, May 1994.
60. Electric Power Research Institute (EPRI), "Guidelines for Applying Fish Protection/Passage Technologies at Hydroelectric Projects and Other Water Intakes," Final Report, May 1994.
61. Electric Power Research Institute (EPRI), "Evaluation of Strobe Lights for Fish Diver-  
sion at the York Haven Hydroelectric Project," prepared by Stone & Webster Environmental Services, Boston, MA, EPRI TR-101703, Project 2694-01, Final Report, November 1992.
62. Electric Power Research Institute (EPRI), "Fish Entrainment and Turbine Mortality Review and Guidelines," prepared by Stone & Webster Environmental Services, Boston, MA, EPRI TR-101231, Project 2694-01, Final Report, September 1992.
63. Electric Power Research Institute (EPRI), "Fish Protection Systems for Hydro Plants, Test Results," prepared by Stone & Webster Environmental Services, Boston, MA, EPRI GS-6712, Project 2694-1, Interim Report, February 1990.
64. Electric Power Research Institute (EPRI), "Turbine Related Fish Mortality: Review and Evaluation of Studies," Prepared by Eicher Associates, Portland, OR, EPRI AP-5480, 1987.
65. Electric Power Research Institute (EPRI), "Assessment of Downstream Migrant Fish Protection Technologies for Hydroelectric Application," EPRI AP-4711, Project 2694-1 Final Report, Prepared by Stone and Webster Engineering Corporation, Boston, MA, EPRI AP-4711, Project 2694-1, Final Report, September 1986.
- 65a. Empire State Electric Energy Research Corp. (ESEERCO), "Responses of white perch, striped bass, alewives, spottail shiners, golden shiners, and Atlantic tomcod in a cage to high and low frequency underwater sounds generated by an electronic fish startle system," Project EP89-30, ESEERCO, 1991.
66. Estes, C., Instream Flow Coordinator, Alaska Department of Fish and Game, personal communication, August 1995.
67. Estes, C., "Annual Summary of Alaska Department of Fish and Game Instream Flow Reservation Applications," Alaska Department of Fish and Game, Fishery Data Series No. 94-37, Anchorage, AK, 1994
68. Estes, C., "Annual Summary of Alaska Department of Fish and Game Instream

- Flow Reservation Applications,” Alaska Department of Fish and Game, Fishery Data Series No. 92-45, Anchorage, AK, 1992.
69. Fay, R.R., *Hearing in Vertebrates: A Psychophysics Data Book* (Winnetka, IL: Hill-Faly Assoc., 1988).
  70. Federal Emergency Management Agency (FEMA), “Water Control and Infrastructure, National Inventory of Dams,” FEMA, Dam Safety Office (Washington, DC: 1994).
  71. Federal Energy Regulatory Commission (FERC), “Preliminary Assessment of Fish Entrainment at Hydropower Projects. A report on Studies and Protective Measures.” DPR-10, Office of Hydropower Licensing (Washington, DC: 1995).
  72. Federal Energy Regulatory Commission (FERC), “Hydropower Licensing and Endangered Species, Procedures for Complying with the Endangered Species Act,” DRP-7, FERC, Office of Hydropower Licensing (Washington, DC: February 1993).
  73. Federal Energy Regulatory Commission (FERC), “Manual of Standard Special Articles,” DPR-4, FERC, Office of Hydropower Licensing (Washington, DC: April 1992).
  74. Federal Energy Regulatory Commission (FERC), *Hydroelectric Project Relicensing Handbook*, FERC, Office of Hydropower Licensing (Washington, DC: April 1990).
  75. Federal Energy Regulatory Commission (FERC), “Evaluating the Economics of Hydroelectric Projects at the Federal Energy Regulatory Commission,” Paper No. DPR-1, FERC, Office of Hydropower Licensing (Washington, DC: September 1989).
  76. Feist, B.E., and Anderson, J.J., “Review of Fish Behavior Relevant to Fish Guidance Systems,” Fisheries Research Unit, University of Washington, Report FRI-UW-9102 (Seattle, WA: 1991).
  77. Ferguson, J., U.S. Army Corps of Engineers, personal communication, April 1995.
  78. Ferguson, J. “Relative Survival of Juvenile Chinook Salmon (*Oncorhynchus tshawytscha*) Through a Bonneville Dam on the Columbia River,” *Proceedings of the Workshop on Fish Passage at Hydroelectric Developments*, U.P. Williams, et al., (eds.) (St. John’s, Newfoundland: Canadian Technical Report on Fish and Aquatic Sciences, 1993).
  79. Francfort, J.F., Senior Engineer/Economist, Idaho National Engineering Laboratory, personal communication, August, 1995.
  80. Francfort, J.F., Senior Engineer/Economist, Idaho National Engineering Laboratory, personal communication, June 1995.
  81. Francfort, J.F., Idaho National Engineering Laboratory, “Synthesis of: U.S. Department of Energy, *Environmental Mitigation at Hydroelectric Projects, Volume II. Benefits and Costs of Fish Passage and Protection*, Idaho Field Office, DOE/ID-10360(V2), January 1994,” paper prepared for the Office of Technology Assessment study of Fish Passage Technologies: Protection at Hydro-power Facilities, June 1995.
  82. Francfort, J., and B. Rinehart, “Protecting Fish,” *Independent Energy*, October 1994, pp. 72–76.
  83. Funderburk, S.L., et al. (eds.), *Habitat Requirements For Chesapeake Bay Living Resources* (Annapolis, MD: Chesapeake Bay Program, 1991).
  84. Funk, J.L., “Movement of Stream Fishes in Missouri,” *Transactions of the American Fisheries Society*, 85: 39–57, 1955.
  85. Gephard, S., Connecticut Department of Environmental Protection, personal communication, June 1994.
  86. Gerking, S.D., “The Restricted Movement of Fish Populations,” *Biological Review* 34:221–42, 1959.
  87. Gloss, S., Wahl, J., and Dubois, R., “Potential effects of Ossberger turbines on Atlantic Salmon Smolts, Striped Bass, and American Shad,” *Potential Effects of Kaplan, Ossberger, and Bulb Turbines on the Anadromous Fishes of the Northeast United States*, W.E. Knapp, B. Kynard, and S.P. Gloss (eds.) FWS/OBS-82/62 (Newton Corner, MA: U.S. Fish and Wildlife Service, 1982).

88. Goodyear, C.P., "Assessing the Impact of Power Plant Mortality on the Compensatory Reserve of Fish Populations with Demersal Eggs," *Assessing the Effects of Power-Plant Induced Mortality on Fish Populations*, J.H. Blaxter (ed.) (New York, NY: Pergamon Press, 1977).
89. Gowan, C., M.K. Young, K.D. Fausch, and S.C. Riley, "Restricted Movement in Resident Stream Salmonids: A Paradigm Lost?" *Canadian Journal of Fisheries and Aquatic Sciences* 51:2626–37, 1994.
90. Guilfoos, S., "Six Years of Monitoring the Effectiveness of a Barrier Net at the Ludington Pumped Storage Plant on Lake Michigan," *Waterpower '95, Proceedings of the International Conference on Hydropower*, J.J. Cassidy (ed.) (San Francisco, CA: American Society of Civil Engineers, 1995).
91. Grimm, L.T., "Fishery Protection and FERC Hydropower Relicensing Under ECPA: Maintaining A Deadly Status Quo," *Environmental Law*, Vol. 20, No. 4, 1990, pp. 929–974.
92. Haddingh, R.H., Koops, F.B.J., and van der Stoep, J.W., "Research on Fish Protection at Dutch Thermal and Hydropower Stations," *Kema Scientific and Technical Reports* 6:57–68, 1988.
93. Hall, J.W., T.I.J. Smith, and S.D. Lamprecht, "Movements and Habitats of Shortnose Sturgeon, *Acipenser brevirostrum*, in the Savannah River," *Copeia* 991(3):695–702, 1991.
94. Hanson, B., RMC Environmental Services, Inc., personal communication, May 1995.
- 94a. Hanson Environmental Inc., "Demonstration Projects To Evaluate The Effectiveness Of An Acoustic (Underwater Sound) Behavioral Barrier In Guiding Chinook Salmon At Georgiana Slough," Results of 1993 Phase I Field Tests, December 1993.
95. Harcup, M.F., R. Williams, and D.M. Ellis, "Movements of Brown Trout, *Salmo trutta* L., in the River Gwyddon, South Wales," *Journal of Fish Biology* 24:415–26, 1984.
96. Harkness, W.J.K., and J.R. Dymond, "The Lake Sturgeon," Ontario Department of Lands and Forests, Toronto, Ontario, Canada, 1961, 121p.
97. Harle, M.L., and C.C. Estes, "Alaska's Instream Flow Program," *Instream Flow Chronicle* Colorado State University, Ft. Collins, CO, 4(1):1–2, 1987.
98. Hasler, A.D., and A.T. Scholz, *Olfactory Imprinting and Homing in Salmon* (Berlin: Springer-Verlag, 1983).
99. Hawkins, A.D., and A.D.F. Johnstone, "The Hearing of the Atlantic Salmon, *Salmo salar*," *Journal of Fisheries Biology* 13:655–673, 1978.
100. Hayes, D., California Department of Water Resources, personal communication, August 1995.
101. Haymes, G.T., Patrick, P.H., and Onisto, L.J., "Attraction of Fish to Mercury Vapour Light and its Application in a Generating Station Forebay," *International Review of Hydrobiology* 69:867–876, 1984.
102. Heggenes, J., Northcote, T.G., and Peter, A., "Spatial Stability of Cutthroat Trout, *Oncorhynchus clarkii*, in a Small Coastal Stream," *Canadian Journal of Fisheries and Aquatic Sciences* 48:757–62, 1991.
103. Heisey, P.G., D. Mathur, and T. Rineer, "A Reliable Tag-Recapture Technique for Estimating Turbine Passage Survival: Application of Young-of-the-Year American Shad (*Alosa sapidissima*)," *Canadian Journal of Fisheries and Aquatic Sciences* 49:1826–34, 1992.
104. Hesthagen, T., "Movements of Brown Trout, *Salmo trutta*, and Juvenile Atlantic Salmon, *Salmo salar*, in a Coastal Stream in Northern Norway," *Journal of Fish Biology* 32: 639–53, 1988.
105. Hildebrand, S.G., (ed.) "Analysis of Environmental Issues Related to Small Scale Hydroelectric Development, II: Design Considerations for Passage Fish Upstream Around Dams," Oak Ridge National Laboratory, Environmental Sciences Division, Pub-

- lication No.1567, ORNL/TM-7396, August 1980.
106. Hilgert, P.H., "Evaluation of a Graduated Electric Field as a Fish Exclusion Device," Beak Consultants Inc., a Report prepared for Puget Sound Power and Light Co., Bellevue, WA, 1992.
  107. Hocutt, C.H., "Behavioral Barriers and Guidance Systems," *Power Plants: Effects on Fish and Shellfish Behavior*, C.H. Hocutt, J.R. Stauffer, J. Edinger, L. Hall and R. Morgan, (eds.) (New York, NY: Academic Press, 1980) pp. 183–205.
  108. Holden, P.B., "Ecology of Riverine Fishes in Regulated Stream Systems with Emphasis on the Colorado River," *The Ecology of Regulated Streams*, J.V. Ward and J.A. Stanford, (eds.) (New York, NY: Plenum Press, 1979).
  109. Holliday, M. C. and B. K. O'Bannon, *Fisheries of the United States, 1992*, Current Fishery Statistics No.9200 (Washington, DC: U.S. Department of Commerce, NOAA, NMFS, 1993).
  110. Houston, J.J., "Status of the Lake Sturgeon, *Acipenser fulvescens*, in Canada," *Canadian Field-Naturalist* 101(2):1171–185, 1987.
  111. Humbles, G., "Evaluation of Smith-Root Type Electric Fish Barrier," Memorandum to the Yakima Project, Yakima, WA, Jan. 28, 1993.
  112. Hunt, R., and J.M. Hunt, "Reinventing the Process," *Independent Energy*, November 1994, pp. 75–77.
  113. "Hydro Industry: Change Clean Water Act to Restore FERC Power," *Hydrowire* 16(5):4–5, March 13, 1995.
  114. *Hydrowire*, "Bailey: Congress Might Have to Restore FERC Oversight Power," 16(3):3–4, February 13, 1995.
  115. *Hydrowire*, "BuRec Draft Environmental Statement Calls for Dam Removal," 16(1):1–2, January 17, 1995.
  116. Jensen, A.L., "Estimation of Recruitment Foregone Resulting from Larval Fish Entrainment," *Journal of Great Lakes Research* 16:241–44, 1990.
  117. Jensen, J.O.T., J. Schute, and D.F. Alderdice, "Assessing Juvenile Salmonid Response to Gas Supersaturation Using a General Multivariate Dose-response Model," *Canadian Journal of Fisheries and Aquatic Sciences* 43:1694–1709, 1986.
  118. Johnson, J. E., *Protected Fishes of The United States and Canada* (Bethesda, MD: American Fisheries Society, 1987).
  119. Johnston, S.V., B.H. Ransom, and J.R. Bohr, "Comparison of Hydroacoustic and Net Catch Estimates of Fish Entrainment at Tower and Kleber Dams, Black River, Michigan," *Waterpower '95, Proceedings of the International Conference on Hydropower*, J.J. Cassidy (ed.) (San Francisco, CA: American Society of Civil Engineers, 1995).
  120. Katopodis, C., Engineer, Freshwater Institute, personal communication, December 1994.
  121. Katopodis, C., "Introduction to Fishway Design," working document, Freshwater Institute, Department of Fisheries and Oceans, Winnipeg, Manitoba, Canada, 1992.
  122. Kempinger, J.J., "Spawning and Early Life History of Lake Sturgeon in the Lake Winnebago System, Wisconsin," *American Fisheries Society Symposium* 5:110–122, 1988.
  123. Kerwin, C.M., "Transforming Regulation: A Case Study of Hydropower Licensing," *Public Administration Review* 50(1):91–100, January 1990.
  124. Khoroshko, P.N., "The Amount of Water in the Volga Basin and its Effect on the Reproduction of Sturgeons (*Acipenseridae*) Under Conditions of Normal and Regulated Discharge," *Journal of Ichthyology* 12:608–616, 1972.
  125. Kieffer, M., and B. Kynard, "Annual Movements of Shortnose and Atlantic Sturgeons in the Merrimack River, Massachusetts," *Transactions of the American Fisheries Society* 122:1088–103, 1993.
  126. Knudsen, F.R., P.S. Enger, and O. Sand, "Avoidance Responses to Low Frequency Sound in Downstream Migrating Atlantic

- Salmon Smolt, *Salmo salar*,” *Journal of Fish Biology* 45:227–33, 1994.
128. Knudsen, F.R., P.S. Enger, and O. Sand, Awareness Reactions and Avoidance Responses to Sound in Juvenile Atlantic Salmon, *salmo salar*, L.,” *Journal of Fish Biology* 40:523–534, 1992
  129. Kramer, R.H., and L.L. Smith Jr., “Formation of Year Classes in Largemouth Bass,” *Transactions of the American Fisheries Society* 91:29–41, 1962.
  130. Kudera, E.A., C.M. Sullivan, and G.E. Johnson, “Evaluation of the Smolt Bypass System at Wells Dam in 1990,” Report for Douglas Co. PUD, East Wenatchee, WA, 1991.
  131. Kuznetsov, Y.A., “The Behavior of Fish in the Zone Affected by a Curtain of Air Bubbles,” *Fish Behavior and Fishing Techniques*, A.P. Alekseev (ed.) NTIS 71-50010 (Washington, DC: National Marine Fisheries Service, NOAA, 1971).
  132. Kynard, B., Behavior/Ecology Section Leader, National Biological Service, personal communication, June 1994.
  133. Kynard, B., “Fish Behavior Important for Fish Passage,” *Fisheries Bioengineering Symposium* (Portland, OR: American Fisheries Society, September 1993).
  134. Kynard, B., and J. O’Leary, “Evaluation of a Bypass System for Spent American Shad at Holyoke Dam, Massachusetts” *North American Journal of Fisheries Management*, 13:782–789, 1993.
  135. Kynard, B., et al., “Potential effects of Kaplan Turbines on Atlantic Salmon Smolts, American Shad and Blueback Herring,” *Potential Effects of Kaplan, Ossberger, and Bulb Turbines on the Anadromous Fishes of the Northeast United States*, W.E. Knapp, B. Kynard, and S.P. Gloss (eds.) FWS/OBS-82/62. (Newton Corner, MA: U.S. Fish and Wildlife Service, 1982).
  136. Lagassa, G.K., “When FERC and States Collide,” *Independent Energy*, October 1994, pp. 67–70.
  137. Langhurst, R.W., and D.L. Schoenike, “Seasonal Migration of Smallmouth Bass in the Embarrass and Wolf Rivers, Wisconsin,” *North American Journal of Fisheries Management* 10:224–27, 1990.
  138. Le Cren, E.D., “The Efficiency of Reproduction and Recruitment in Freshwater Fish,” *The Exploitation of Natural Animal Populations*, E.D. Le Cren and M.W. Holdgate (eds.) (New York, NY: Wiley, 1962) pp. 283–296.
  139. Lewis, W.M., and S. Flickinger, “Home Range Tendency of the Largemouth Bass, *Micropterus salmoides*,” *Ecology* 48:1020–23, 1967.
  140. Li, H.W., et al., “Factors Influencing Changes in Fish Assemblages of Pacific Northwest Streams,” *Community and Evolutionary Ecology of North American Stream Fishes*, W.J. Matthews and D.C. Heins (eds.) (Norman, OK: University of Oklahoma Press, 1987).
  141. Loeffelman, P.H., J.H. Van Hassell, and D.A. Klinec, “Using Sound to Divert Fish From Turbine Intakes,” *Hydro Review* October 1991.
  142. Lythgoe, J.N., “Light and Vision in the Aquatic Environment,” in J. Atema, R.R. Fay, A.N. Popper, and W.N. Tavolga, *Sensory Biology of Aquatic Animals* (New York, NY: Springer-Verlag, 1988).
  143. Marcy, B.C., Jr., “Fishes of the Lower Connecticut River and the Effects of the Connecticut Yankee Plant,” *The Connecticut River Ecological Study. The Impact of a Nuclear Power Plant. American Fisheries Society, Monograph Number One*, D. Merriam and L.M. Thorpe (eds.) (Lawrence, KS: Allen Press, Inc, 1976).
  144. Mathur, D., P.G. Heisey, and D.A. Robinson, “Turbine-passage Mortality of Juvenile American Shad at a Low-head Hydroelectric Dam,” *Transactions of the American Fisheries Society* 123:108–11, 1994.
  145. Mattice, J., “Ecological Effects of Hydropower Facilities,” *Hydropower Engineering Handbook*, Gulliver, J. and R.E.A. Arndt

- (eds.) (New York, NY: McGraw-Hill, Inc., 1991).
146. Mattice, J., Senior Project Manager, Electric Power Research Institute, personal communication, August 1995.
  147. McAda, C.W., and L.R. Kaeding, "Movements of Adult Colorado Squawfish During the Spawning Season in the Upper Colorado River," *Transactions of the American Fisheries Society* 120:339-45, 1991.
  148. McBride, N., "Smallmouth Bass Population Assessment in Three Lower Mohawk River Lock Pools," Watershed file No. 625, New York Department of Environmental Conservation, Region 4 Fisheries Office (Stamford, New York: 1993).
  149. McDowall, R.M., "Evolution and Importance of Diadromy. The Occurrence and Distribution of Diadromy among Fishes," *American Fisheries Society Symposium* 1:1-13, 1987.
  150. Mead, E., Biologist, U.S. Fish and Wildlife Service, personal communication, August 1995.
  151. Mesing, C.L., A.M. Wicker, "Home Range, Spawning Migrations, and Homing of Radio-tagged Florida Largemouth Bass in Two Central Florida Lakes," *Transactions of the American Fisheries Society* 115:286-95, 1986.
  152. Metropolitan Edison Company, "1993 Evaluation of Behavioral Fish Protection Technologies at the York Haven Hydroelectric Project," Final Report, prepared by Stone and Webster Environmental Technology & Services, Boston, MA, February 1994.
  153. Mills, D., *Ecology and Management of Atlantic Salmon* (London: Chapman and Hall, 1989).
  154. Mills, D. (ed.) *Salmon In The Sea and New Enhancement Strategies* (Cambridge, MA: Blackwell Scientific Publications, Inc., Fishing News Books, 1993).
  155. Moffitt, C.M., B. Kynard, and S.G. Rideout, "Fish Passage Facilities and Anadromous Fish Restoration in the Connecticut River Basin," *Fisheries*, 7(6):2-11, 1982.
  156. Moore, H.L., and H.W. Newman, "Effects of Sound Waves on Young Salmon," *Special Scientific Report on Fisheries* No.172, U.S. Fish and Wildlife Service, Washington, DC, 1956.
  157. Moyle, P.B., "The Decline of Anadromous Fishes in California," *Conservation Biology* 8:869-70, 1994.
  158. Moyle, P.B., and J.J. Cech, Jr., *Fishes: An Introduction to Ichthyology* (Englewood Cliffs, NJ: Prentice-Hall, Inc., 1982).
  159. Myrberg, A.A. Jr., "Sound Communication and Interception in Fishes," *Hearing and Sound Communication in Fishes*, W.N. Tavolga, A.N. Popper and R.R. Fay (eds.) (New York, NY: Springer, 1981).
  160. Naslund, I., et al., "Importance in Habitat Productivity Differences, Competition, and Predation for the Migratory Behavior of Arctic Charr," *OIKOS* 66:538-46, 1993.
  161. Naslund, I., "The Development of Regular Seasonal Habitat Shifts in a Landlocked Arctic Charr, *Salvelinus alpinus* L., Population," *Journal of Fish Biology* 36:401-14, 1990.
  162. Nehlsen, W., J.E. Williams, and J.A. Lichatowich, "Pacific Salmon at the Crossroads: Stocks at Risk from California, Oregon, Idaho, and Washington," *Fisheries* 16(2):4-21, 1991.
  163. Nemeth, R.S., J.J. Anderson, "Responding of Juvenile Coho and Chinook Salmon to Strobe and Mercury Vapor Lights," *North American Journal of Fisheries Management*, 12:684-92, 1992.
  164. Nestler, J., and R. Davidson, "Imaging Smolt Behavior on an Extended-Length Submerged Bar Screen and an Extended-Length Submerged Traveling Screen at the Dalles Dam in 1993," Technical Report EL-95-13 (Vicksburg, MS: U.S. Army Engineer Waterways Experiment Station, 1995).
  165. Nestler, J., et al., "Developing Acoustic Technologies for Improving Fish Passage and Protection in the Columbia River Basin: Program Evaluation," Technical Report EL-95-8 (Vicksburg, MS: U.S. Army Engineer

- Waterways Experiment Station, February 1995).
166. Netboy, A., *The Atlantic Salmon, a Vanishing Species?* (Boston, MA: Houghton Mifflin, 1968).
  167. Nettles, D.C., and Gloss, S.P., Migration of Landlocked Atlantic Salmon Smolts and Effectiveness of a Fish Bypass Structure at a Small-Scale Hydroelectric Facility, *North American Journal of Fisheries Management*, 7:562–68, 1987.
  168. Nordlund, B., “Fish Screening and Guidance at Water Diversions,” presentation at Fish Passageways and Diversion Structures, U.S. Fish and Wildlife Service, November 28–December 2, 1994, Richland, WA.
  169. Northcote, T.G., “Migratory Strategies and Production in Freshwater Fishes,” *Ecology of Freshwater Fish Production*, S.D. Gerking (ed.) (New York, NY: Halsted Press, 1978).
  170. Novakovic, P., CEO, Energy Electric Services Corporation, personal communication, August 1995.
  171. Odenweller, D., California Department of Fish and Game, personal communication, June 1995.
  172. Patrick, P.H., A.E. Christie, D. Sager, C. Hocutt, and J. Stauffer, Jr., “Responses of Fish to a Strobe Light/air-bubble Barrier,” *Fisheries Research* 3:157–172, 1985.
  173. Payne, D.A., “Biology and Population Dynamics of Lake Sturgeon (*Acipenser fulvescens*) from the Frederick House, Abitibi, and Mattagami Rivers, Ontario,” *Proceedings of a Workshop on the Lake Sturgeon (Acipenser fulvescens)*, C.H. Olver (ed.) Ontario Fisheries Technical Report No.23, 1987.
  174. Pearce, R., National Marine Fisheries Service, personal communication, January 1995.
  175. Pearce, R., “Design Considerations for Fish Protection at Water Diversions,” Portland, OR, National Marine Fisheries Service, unpublished data, November, 1993.
  176. Peters, R., U.S. Army Corps of Engineers, personal communication, August 1995.
  177. Pierson, W., Susquehanna Electric Company, personal communication, May 1995.
  178. Ploskey, G., et al., “Evaluation of an Integrated Fish-Protection System,” American Society of Civil Engineers, in press.
  179. Popper, A.N., Professor, University of Maryland, personal communication, January 1995.
  180. Popper, A.N., “Fish Sensory Responses: Prospects for Developing Behavioral Guidance Technologies,” unpublished contractor report prepared for the Office of Technology Assessment, U.S. Congress, Washington, DC, June 1995.
  181. Popper, A.N., and R.R. Fay, “Sound Detection and Processing by Fish: Critical Review and Major Research Questions,” *Behavioral Evolution* 41:14–38, 1993.
  182. Popper, A.N., C. Platt, and P. Edds, “Evolution of the Vertebrate Inner Ear: An Overview of Ideas,” *Evolutionary Biology of Hearing*, D.B. Webster, R.R. Fay and A.N. Popper (eds.) (New York, NY: Springer-Verlag, 1992) pp. 49–57.
  183. Porcher, J.P., “Fishways for Eels,” *French Journal of Fishing and Fish Breeding*, E. Vigneux (ed.) 3d-4th quarters:125–133, 1992.
  184. Prince, E.D., and L. Mengel, “Entrainment of Ichthyoplankton at Jocassee Pumped Storage Station,” U.S. Fish and Wildlife Service FWS/OBS-80/ 28:26–39, 1980.
  185. Quinn, D., Hydraulic Engineer, U.S. Fish and Wildlife Service, Newton Corner, MA, personal communication, February 1995.
  186. Quinn, D., Hydraulic Engineer, U.S. Fish and Wildlife Service, Newton Corner, MA, personal communication, November 1994.
  187. Rainey, W.S., Environmental and Technical Services Division, National Marine Fisheries Service, Portland, OR, personal communication, August 1995.
  188. Rainey, W.S., Environmental and Technical Services Division, National Marine Fisher-

- ies Service, Portland, OR, personal communication, December 1994.
189. Rainey, W.S., Environmental and Technical Services Division, National Marine Fisheries Service, Portland, OR, personal communication, October 1994.
190. Rainey, W.S., "Considerations in the Design of Juvenile Bypass Systems," paper presented at the Symposium on Small Hydropower and Fisheries, Denver, CO, May 1–3, 1985.
191. Ransom, B.H., and T.W. Steig, "Comparison of the Effectiveness of Surface Flow and Deep Spill for Bypassing Pacific Salmon Smolts, *Oncorhynchus* spp. at Columbia River Basin Hydropower Dams," *Waterpower '95, Proceedings of the International Conference on Hydropower*, J.J. Cassidy (ed.) (San Francisco, CA: American Society of Civil Engineers, 1995).
192. Ransom, B.H., T.W. Steig, and P.A. Nealson, "Comparison of Hydroacoustic and Net Catch Estimates of Pacific Salmon Smolt, *Oncorhynchus* spp., passage at Hydropower Dams in the Columbia River Basin," *International Symposium on Fisheries and Plankton Acoustics* MS No. 54 (Portland, OR: International Civil Engineering Society, 1995).
193. Raymond, H.L., "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* 108:505–29, 1979.
194. Rizzo, B., Engineering Field Office, U.S. Fish and Wildlife Service, Newton Corner, MA, personal communication, May 1995.
195. Rizzo, B., Engineering Field Office, U.S. Fish and Wildlife Service, Newton Corner, MA, personal communication, April 1995.
196. Rizzo, B., Engineering Field Office, U.S. Fish and Wildlife Service, Newton Corner, MA, personal communication, February 1995.
197. Rizzo, B., Engineering Field Office, U.S. Fish and Wildlife Service, Newton Corner, MA, personal communication, November 1994.
198. Rizzo, B., Bypass Efficiency Studies at Hydroprojects with Angled Bar Racks in Region 5, National Biological Service Memorandum to Alex Hoar, December 2, 1994.
199. Rochester, H., Jr., T. Lloyd, and M. Farr, "Physical Impacts of Small-Scale Hydroelectric Facilities and Their Effects on Fish and Wildlife," FWS/OBS; 84/19WR 196, U.S. Fish Wildlife Service Biological Service Program, 1984, 119p.
200. Rogers, D.E., *Estimates of Annual Salmon Runs from the North Pacific, 1951–1994*, (Seattle, WA: Fisheries Research Institute, University of Washington, 1995).
201. Rogers, P.H., and M. Cox, "Underwater Sound as a Biological Stimulus," *Sensory Biology of Aquatic Animals*, J. Atema, et al., (eds.) (New York, NY: Springer, 1988).
- 201a. Ross, Q.E., et al., "Responses Of Alewives to High-Frequency Sound at a Power Plant on Lake Ontario," *North American Journal of Fisheries Management*, 13:291–303, 1993.
- 202b. Ross, Q.E., et al., "Reducing Impingement of Alewives with High-Frequency Sound at a Power Plant Intake on Lake Ontario," *North American Journal of Fisheries Management*, 1995.
202. Ruggles, C.P., "Effect of Stress on Turbine Fish Passage Mortality Estimates," *Proceedings of the Workshop on Fish Passage at Hydroelectric Developments*, U.P. Williams, et al., (eds.) (St. John's, Newfoundland: Canadian Technical Report on Fish and Aquatic Sciences, 1993).
203. Ruggles, C.P., "Effect of Stress on Turbine Fish Passage Mortality Estimates," Canadian Technical Report on Fish and Aquatic Sciences, 1992.
204. Ruggles, C.P., "A Critical Review of Fish Exclusion and Diversion from Hydroelectric Turbine Intakes, with Special Reference to the Turner's Falls Project on the Connecticut River," Report to the Northeast Utilities Service Company, Hartford, CT, January 1991.

205. Ruggles, C.P., "A Review of the Downstream Migration of Atlantic Salmon," *Canadian Technical Report on Fish and Aquatic Sciences* 952:39, 1980.
206. Ruggles, C.P., T.H. Palmeter, and K.D. Stokesbury, "A Critical Examination of Turbine Passage Fish Mortality Estimates," Monenco Maritimes limited Canadian Electrical Association, Project No. 801 G. 658, 1989.
207. Schellart, N.A.M., and A.N. Popper, "Functional Aspects of the Evolution of the Auditory System of Actinopterygian Fish," *Comparative Evolutionary Biology of Hearing*, D.B. Webster, R.R. Fay, and A.N. Popper (eds.) (New York, NY: Springer, 1992).
208. Scott, W.B., and E.J. Crossman, "Freshwater Fishes of Canada," *Fisheries* (Bethesda, MD: American Fisheries Society, 1973).
209. Smith, D.V., President, Smith-Root, Inc., personal communication, April 1995.
210. Smith, G.J.C., "Innovative Technologies for Fish Passage: Aspects of Development and Implementation," unpublished contractor report prepared for the Office of Technology Assessment, U.S. Congress, Washington, DC, May 1995.
211. Smith, H., *Development of Fish Passage Technologies at Puntledge* (Portland, OR: American Fisheries Society, 1993).
212. Smith, M.W., and J.W. Saunders, "The American Eel in Certain Fresh Waters of the Maritime Provinces of Canada," *Journal of The Fisheries Research Board of Canada* 12:238–69, 1955.
213. Smith, J., Field Supervisor, U.S. Fish and Wildlife Service, Green Bay, WI, personal communication, August 1995.
214. Snyder, D.E., "Passage of Fish Eggs and Young Through a Pumped Storage Generating Station," *Journal of The Fisheries Research Board Of Canada* 32:1259–66, 1975.
215. Soast, A., and H. King, "Dam Owners Have to Coddle Fish," *ENR* July 19:22–25, 1993.
216. Solomon, D.J., and R.G. Templeton, "Movements of Brown Trout, *Salmo trutta* L., in a Chalk Stream," *Journal of Fish Biology* 9:411–23, 1976.
- 216a. State of Washington, Department of Fisheries and Wildlife, *Screening Requirements for Water Diversions*, May 19, 1993.
217. Stober, Q.J., "Underwater Noise Spectra, Fish Sounds and Response to Low Frequencies of Cutthroat Trout, *Salmo clarki*, With Reference to Orientation and Homing in Yellowstone Lake," *Transactions of the American Fisheries Society* 98:652–63, 1969.
218. Stott, B., "The Movements and Population Densities of Roach, *Rutilus rutilus* L., and Gudgeon, *Gobio gobio* L., in the River Mole," *Journal of Animal Ecology* 36:407–23, 1967.
219. Taft, E., Vice President, Program Manager Environmental Services, Alden Research Laboratory, personal communication, August 1995.
220. Taft, E., "Fish Passage at Hydroelectric Projects," presented at Hydro's Leading Edge Technology Symposium, Phoenix, AZ, August 1994.
221. Taft, E., "Biological Evaluation of a New Modular Fish Diversion Screen," *Fish Passage Policy and Technology*, Portland, OR, 1993.
222. Taylor, R.E., and B. Kynard, "Mortality of Juvenile American Shad and Blueback Herring Passed through a Low Head Kaplan Hydroelectric Turbine," *Transactions of the American Fisheries Society* 114:430–35, 1985.
- 222a. Toner, M.A. and E.M. Dawley, "Evaluation of the Effects of Dissolved Gas Supersaturation on Fish and Invertebrates Downstream from Bonneville Dam," funded by U.S. Army Corps of Engineers, North Pacific Division, and Coastal Zone and Estuarine Studies Division Northwest Fisheries Science Center, January 1995.
223. Truebe, J., "Introduction to Fishways—Their Purpose and Methods of Analysis," *Lake-side Engineering*, U.S. Fish and Wildlife

- Service, Fish Passage Training Course, Lecture Notes, April 28, 1992.
224. Turbak, S.C., D.R. Reichle, and C.R. Shriner, "Analysis of Environmental Issues Related to Small-scale Hydroelectric Development. IV: Fish Mortality Resulting from Turbine Passage," ORNL/TM-7521 (Oak Ridge, TN: Oak Ridge National Laboratory, 1981).
225. Tysus, H.M., "Life Strategies in the Evolution of the Colorado Squawfish, *Ptychocheilus lucius*," *Great Basin Naturalist* 46:656–61, 1986.
226. Tysus, H.M., "Homing Behavior Noted for Colorado Squawfish," *Copeia* 1985:213–15, 1985.
227. Tysus, H.M., R.L. Jones, and L.A. Trinca, "Green River Rare and Endangered Fish Studies, 1982–1985," Final Report, Colorado River Fishes Monitoring Project, U.S. Fish and Wildlife Service (Vernal, UT: 1987).
228. Tysus, H.M., and C.W. McAda, "Migration Movements and Habitat Preferences of Colorado Squawfish, *Ptychocheilus lucius*, in the Green, White, and Yampa Rivers, Colorado and Utah," *Southwestern Naturalist* 29:289–299, 1984.
229. U.S. Army Corps of Engineers, North Pacific Division, Fish Passage Center, "Spill and 1995 Risk Management," Portland, OR, unpublished draft, 1995.
230. U.S. Army Corps of Engineers, North Pacific Division, *Salmon Passage Notes*, newsletter, January, 1994.
231. U.S. Army Corps of Engineers, North Pacific Division, *Salmon Passage Notes*, newsletter, July, 1994.
232. U.S. Army Corps of Engineers, North Pacific Division, *Salmon Passage Notes*, newsletter, November, 1994.
233. U.S. Department of Commerce, National Marine Fisheries Service and U.S. Department of Interior, Fish and Wildlife Service, "Notice of Proposed Policy and Procedures on Hydropower Applications," *Congressional Record* 60(98):S27154, May 22, 1995.
234. U.S. Department of Commerce, National Marine Fisheries Service (NMFS), "Second Working Group Meeting Panel on Gas Bubble Disease, Report and Recommendations" (Seattle, WA: NMFS, Northwest Fisheries Science Center, Seattle, 1995).
235. U.S. Department of Commerce, National Marine Fisheries Service (NMFS), *Coastal Zone and Estuarine Studies Division, Activities and Organization* (Seattle, WA: Northwest Fisheries Science Center, National Marine Fisheries Service, April 1994).
236. U.S. Department of Commerce, National Marine Fisheries Service (NMFS), *Experimental Fish Guidance Devices, Position Statement of National Marine Fisheries Service, Southwest Region*, Santa Rosa, CA, January 1994.
- 236a. U.S. Department of Commerce, National Marine Fisheries Service (NMFS), *Experimental Fish Guidance Devices, Position Statement of National Marine Fisheries Service, Northwest Region*, Portland, OR, January 1995.
237. U.S. Department of Commerce, National Marine Fisheries Service (NMFS), *Fish Screening Criteria for Anadromous Salmonids, National Marine Fisheries Service, Southwest Region*, (Santa Rosa, CA: April 1992).
238. U.S. Department of Commerce, National Marine Fisheries Service (NMFS), *Fish Passage Facilities Functional Design Guidelines and Supplemental Criteria*, Environmental and Technical Services Division (Portland, OR: Nov. 16, 1990).
239. U.S. Department of Commerce, National Marine Fisheries Service (NMFS), *Fish Screening Criteria*, Environmental and Technical Services Division (Portland, OR: August 21, 1989).
240. U.S. Congress, General Accounting Office, "Electricity Regulation: FERC's Efforts to Monitor and Enforce Hydroelectric Require-

- ments,” GAO/RCED-94-162 (Washington, DC: May 1994).
- 241.U.S. Congress, General Accounting Office, “Electricity Regulation: Electric Consumers Protection Act’s Effects on Licensing Hydroelectric Dams,” GAO/RCED-92-246 (Washington, DC: September 1992).
- 242.U.S. Department of Energy, *Environmental Mitigation at Hydroelectric Projects, Volume II. Benefits and Costs of Fish Passage and Protection*, DOE/ID-10360 (Idaho Falls, ID: U.S. Department of Energy, January 1994).
- 243.U.S. Department of Energy, *Environmental Mitigation at Hydroelectric Projects, Volume I. Current Practices for Instream Flow Needs, Dissolved Oxygen, and Fish Passage*, DOE/ID-10360 (Idaho Falls, ID: U.S. Department of Energy, December 1991).
- 244.U.S. Department of Energy, Bonneville Power Administration, Division of Fish & Wildlife, and Pacific Northwest Laboratory, *Velocity Measurements at Six Fish Screening Facilities in the Yakima River Basin, Annual Report 1988* (Yakima, WA: Bonneville Power Administration, 1989).
- 245.U.S. Department of Energy, Bonneville Power Administration, Division of Fish & Wildlife, and Pacific Northwest Laboratory, *A Fisheries Evaluation of the Richland and Wapato Canal Fish Screening Facilities, Spring 1987, Annual Report* (Richland, WA: Bonneville Power Administration, 1988).
- 246.U.S. Department of Energy, Bonneville Power Administration, Division of Fish & Wildlife, and Pacific Northwest Laboratory, *Velocity Measurements at Three Fish Screening Facilities in the Yakima River Basin, Annual Report 1989* (Yakima, WA: Bonneville Power Administration, 1990).
- 247.U.S. Department of Energy, Bonneville Power Administration, Division of Fish & Wildlife, and Pacific Northwest Laboratory, *A Fisheries Evaluation of the Wapato, Sunnyside, and Toppenish Creek Canal Fish Screening Facilities, Annual Report 1988* (Yakima, WA: Bonneville Power Administration, 1989).
- 248.U.S. Department of Energy, Bonneville Power Administration, Division of Fish & Wildlife, and Pacific Northwest Laboratory, *A Fisheries Evaluation of the Westside Ditch and Wapato Canal Fish Screening Facilities, Spring 1989, Annual Report* (Yakima, WA: Bonneville Power Administration, 1990).
- 249.U.S. Department of Energy, Bonneville Power Administration, Division of Fish & Wildlife, and Pacific Northwest Laboratory, *A Fisheries Evaluation of the Westside Ditch and Town Canal Fish Screening Facilities, Annual Report 1989* (Yakima, WA: Bonneville Power Administration, 1990).
- 250.U.S. Department of Energy, Bonneville Power Administration, Division of Fish & Wildlife, and Pacific Northwest Laboratory, *Evaluation of Juvenile Fish Bypass and Adult Fish Passage Facilities at Three Mile Falls Dam, Umatilla River, Annual Progress Report 1989* (Portland, OR: Bonneville Power Administration, 1990).
- 251.U.S. Department of the Interior, U.S. Fish and Wildlife Service, *Transportation of Juvenile Salmonids from Hydroelectric Projects in the Columbia River Basin*, prepared by Phillip R. Mundy, Fisheries and Aquatic Sciences (Washington, DC: U.S. Fish and Wildlife Service, May 1994).
- 252.U.S. Department of the Interior, U.S. Fish and Wildlife Service, *Restoration of American Shad to the Susquehanna River, Annual Progress Report, 1993* (Harrisburg, PA: Susquehanna River Anadromous Fish Restoration Committee, February 1994).
- 253.U.S. Department of the Interior, Fish and Wildlife Service, Mitigation Policy; Notice of Final Policy, *Federal Register*, Vol. 46, No. 15, Friday, January 23, 1981, pp. 7644–63.
- 254.VanDerwalker, J.G., “Response of Salmonids to Low Frequency Sound,” *Marine Bioacoustics II*, W.N. Tavolga (ed.) (New York, NY: Pergamon Press, 1967) pp. 45–54.

255. Voltinov, N.P. and V.P. Kasyanov, "The Ecology and Reproductive Efficiency of the Siberian Sturgeon, *Acipenser baeri*, in the Ob as Affected by Hydraulic Engineering Works," *Journal of Ichthyology* 18:20–29, 1978.
256. Walburg, C.H., "Loss of Young Fish in Reservoir Discharge and Year-Class Survival, Lewis and Clark Lake," *Missouri River American Fisheries Society Special Publication* 8: 441–48, 1971.
257. Waste, S., Habitat Policy Coordinator, National Marine Fisheries Service, Office of Habitat, personal communication, January 1995.
258. Weber, J.L., and B.L. Les, "Spawning and Early Life History of Yellow Perch in the Lake Winnebago System," *Technical Bulletin No. 130*, Wisconsin Department of Natural Resources, Madison WI, 1982.
259. Whelan, G., FERC Project Coordinator, Michigan Department of Natural Resources, personal communication, August 1995.
260. Wick, E.J., D.L. Stoneburner, and J.A. Hawkins, "Observations on the Ecology of Colorado Squawfish, *Ptychocheilus lucius*, in the Yampa river, Colorado," Technical Report 83-7 (Fort Collins, CO: United States Park Service, Water Resources Field Support Laboratory, 1983).
261. Willson, M.F., and Halupka, K.C., "Anadromous Fish as Keystone Species in Vertebrate Communities," *Conservation Biology* 9:489–97, 1995.
262. Winchell, R.C., "A New Technology for Diverting Fish Past Turbines," *Hydro Review* December 1990, pp. 32–42.
263. Winchell, R.C., and Sullivan, C.W., "Evaluation of an Eicher Fish Diversion Screen at Elwha Dam," *Waterpower '91 Proceedings of the International Conference on Hydropower* (Portland, OR: American Society of Civil Engineering, 1991).
264. Wisconsin Department of Natural Resources, U.S. Fish and Wildlife Service and Great Lakes Indian Fish and Wildlife Commission, *Guidelines for Fish Entrainment and Mortality Mitigation at Federal Energy Regulatory Commission Licensed Hydropower Projects* (Madison, WI: Wisconsin Department of Natural Resources, 1994).