Dr. Reginald R. Reisenbichler
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Current Position: Research fishery biologist in population ecology. Current(*) or proposed work in (1*) Integration of artificial and natural production of anadromous salmonids (emphasis on adaptation and adaptedness), (2) Ecological and genetic relations between resident and anadromous *Oncorhynchus mykiss**, *O. clarki clarki*, and *Salvelinus confluentus* and *S. malma*, (3*) Importance of estuarine habitats to anadromous salmonids, and (4*) Effect of marine-derived nutrients from salmon carcasses and gametes on aquatic and terrestrial communities, including the productivity of salmon populations.

Education:
B.S. (cum laude) in Zoology, minor in mathematics, Oregon State University. 1972.
M.S. in Fishery Biology, minor in statistics, Oregon State University. 1976.
Ph.D. in Fisheries Science (population dynamics, statistics), University of Washington. 1986.

Fisheries Postions:
1974-76 -- graduate research assistant in fisheries, Oregon State University, Corvallis, Oregon.
1976-77 -- fishery research biologist, Oregon Department of Fish and Wildlife, Corvallis, Oregon.
1977-80 -- fishery biologist, U.S. Fish and Wildlife Service, Lander, Wyoming, and Red Bluff, California.
1980-present -- fishery research biologist, U.S. Fish and Wildlife Service, National Biological Service, or U.S. Geological Survey, Seattle, Washington.
1989-present -- Affiliate Assistant Professor, School of Fisheries, University of Washington

Responsibilities: Design and conduct research in the population ecology of salmonid and endangered fish species in the western United States.

Work experience in fisheries: Management and study of resident fish species in Wyoming and of anadromous Pacific salmonids in the Central Valley of California (3 years). Research in statistics and experimental design, and in population genetics, population dynamics, stream ecology, and life histories of anadromous Pacific salmonids from California to Alaska (> 20 years).

Publications:
McIntyre, J.D., and R.R. Reisenbichler. 1976. An effect of interbreeding hatchery and wild anadromous salmonids. p.93-94. In E. Schwiebert [ed.] Proceedings of the Columbia River salmon and steelhead symposium. American Fisheries Society Special Publication No.10. 214p.

Reisenbichler, R.R. 1977. Effects of artificial propagation of anadromous salmonids on wild populations. p. 2-3. In T.J. Hassler and R.R. Van Kirk [eds.] Genetic implications of steelhead management. California Cooperative Fisheries Research Unit Special Report 77-1. Humboldt, CA. 57 p.

Reisenbichler, R.R., and J.D. McIntyre. 1977. Genetic differences in growth and survival of juvenile hatchery and wild steelhead trout, Salmo gairdneri. Journal of the Fisheries Research Board of Canada 34: 123-128.

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Nicholas, J.W., R.R. Reisenbichler, and J.D. McIntyre. 1978. Genetic implications of stocking hatchery trout on native trout populations. p. 189-192. In J.R. Moring [ed.] Proceedings of the wild trout--catchable trout symposium. Oregon Dept. of Fish and Wildlife, Corvallis, OR. 210 p.

Hallock, R.J., and R.R. Reisenbichler. 1979. Evaluation of returns from chinook salmon, Oncorhynchus tshawytscha, released as fingerlings at Coleman and Nimbus hatcheries and in the Sacramento River estuary. California Dept. of Fish and Game. Anadromous Fisheries Branch Office Report. 10 p.

Hallock, R.J., and R.R. Reisenbichler. 1980. Freshwater and ocean returns of marked winter-run and late-fall-run chinook salmon, Oncorhynchus tshawytscha, from the Sacramento River. California Dept. of Fish and Game, Anad. Fisheries Branch Office Report. 7 p.

Reisenbichler, R.R., and N.A. Hartmann, Jr. 1980. Effect of number of marked fish and years of repetition on precision in studies of contribution to a fishery. Canadian Journal of Fisheries and Aquatic Sciences 37: 576-582.

Reisenbichler, R.R., J.D. McIntyre, and R.J. Hallock. 1982. Relation between size of chinook salmon, Oncorhynchus tshawytscha, released at hatcheries and returns to hatcheries and ocean fisheries. California Fish and Game 68: 57-59.

Hallock, R.J., D.A. Vogel, and R.R. Reisenbichler. 1982. The effect of Red Bluff Diversion Dam on the migration of adult chinook salmon, Oncorhynchus tshawytscha, as indicated by radio-tagged fish. California Dept. of Fish and Game, Anadromous Fisheries Branch Administrative Report No. 82-8. 47 p.

Reisenbichler, R.R. 1984. Outplanting: Potential for harmful genetic change in naturally spawning salmonids. p. 33-39. In J.M. Walton and D.B. Houston [eds.] Proceedings of the Olympic wild fish conference. Peninsula College, Port Angeles, WA. 308 p.

Reisenbichler, R.R. 1985. Use of hatcheries in management of anadromous fish. p. 124-136. In Ye.P. Yakovleva [ed.] Aquaculture in the USSR and the USA. Proceedings of the Soviet-American symposium on aquaculture. All-Union Research Institute of Marine Fisheries and Oceanography (VNIRO). Moscow, USSR. 196 p.

Reisenbichler, R.R., and J.D. McIntyre. 1986. Requirements for integrating natural and artificial production of anadromous salmonids in the Pacific Northwest, p. 365-374. In R.H. Stroud [ed.] Fish culture in fisheries management. American Fisheries Society. Bethesda, MD. 481 p.

McIntyre, J.D., and R.R. Reisenbichler. 1986. A model for selecting harvest fraction for aggregate populations of hatchery and wild anadromous salmonids, p. 179-189. In R.H.

Stroud [ed.] Fish culture in fisheries management. American Fisheries Society. Bethesda, MD. 481 p.

Reisenbichler, R.R. 1986. Use of spawner-recruit relations to evaluate the effect of degraded environment and increased fishing on the abundance of fall-run chinook salmon, Oncorhynchus tshawytscha, in several California streams. Ph.D. dissertation. University of Washington. Seattle, WA. 175 p.

Reisenbichler, R.R., and S.R. Phelps. 1987. Genetic variation in chinook, Oncorhynchus tshawytscha, and coho salmon, O. kisutch, from the north coast of Washington. U.S. Fishery Bulletin 85(4): 681-701.

Reisenbichler, R.R. 1987. A basis for managing the harvest of chinook salmon. North American Journal of Fisheries Management 7: 589-591.

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McIntyre, J.D., and R.R. Reisenbichler. 1988. Temperature in Idaho's salmon and steelhead streams. Technical report. National Fishery Research Center--Seattle. 57 p.

Reisenbichler, R.R., and S.R. Phelps. 1989. Genetic variation in steelhead (Salmo gairdneri) from the north coast of Washington. Canadian Journal of Fisheries and Aquatic Sciences 46(1): 66-73.

Reisenbichler, R.R., J.D. McIntyre, J.M. Emlen, and A. Byrne. 1989. A study of the effects of riprap on chinook salmon in the Sacramento River, California. Final report to the U.S. Army Corps of Engineers, Sacramento, CA. 49 p.

Faurot, M.W., S.W. Landino, R.R. Reisenbichler, and D.G. Clarke. 1989. Habitat utilization by juvenile pink and chum salmon in upper Resurrection Bay, Alaska. Technical Report EL-89-17, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Reisenbichler, R.R. 1989. Utility of spawner-recruit relations for evaluating the effect of degraded environment on the abundance of chinook salmon, Oncorhynchus tshawytscha, pages 21-32. In C.D. Levings, L.B. Holtby, and M.A. Henderson [editors] Proceedings of the National Workshop on Effects of Habitat Alteration on Salmonid Stocks. Canadian Special Publication in Fisheries and Aquatic Sciences 105.

Emlen, J.M., R.R. Reisenbichler, A.M. McGie, and T.E. Nickelson. 1990. Density dependence at sea for coho salmon (Oncorhynchus kisutch). Canadian Journal of Fisheries and Aquatic Sciences 47: 1765-1772.

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chinook salmon workshop, 8-9 November 1989. NOAA Technical Memorandum NMFS F/NWC-187, Seattle. 130 pages.

Reisenbichler, R.R., J.D. McIntyre, M.F. Solazzi, and S.W. Landino. 1992. Genetic variation in steelhead of Oregon and northern California. Transactions of the American Fisheries Society 121: 158-169.

Reisenbichler, R.R., and G.S. Brown. 1995. Is Genetic Change From Hatchery Rearing of Anadromous Fish Really a Problem? Pages 578-579 in H.L. Schramm, Jr., & R.G. Piper [eds] Uses and Effects of Cultured Fishes in Aquatic Ecosystems. American Fisheries Society Symposium 15. Bethesda, MD.

Reisenbichler, R.R. 1996. Effects of supplementation with hatchery fish on carrying capacity and productivity of naturally spawning populations of steelhead. Pages 81-92 in G.E. Johnson, D.A. Neitzel, and W.V. Mavros [eds.] Proceedings from a Workshop on Ecological Carrying Capacity of Salmonids in the Columbia Basin: Measure 7.1A of the Northwest Power Planning Council's 1994 Fish and Wildlife Program, Report 3 of 4. Bonneville Power Administration, Portland, OR.

Reisenbichler, R.R. 1996. The risks of hatchery supplementation. The Osprey 27: 1-4.

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Reisenbichler, R.R., F.M. Utter, and C.C. Krueger. In press. Genetic concepts and uncertainties in restoring fish populations and species. Chapter 7 *in* R.C. Wissmar and P.A. Bisson [editors]. Strategies for restoring river ecosystems – sources of variability and uncertainty in natural and management systems. American Fisheries Society, Bethesda, MD.

Reisenbichler, R.R., S.P. Rubin, L. Wetzel, and S.R. Phelps. (accepted). Natural selection after release from a hatchery leads to domestication in steelhead, *Oncorhynchus mykiss*. Pages xx-yy *In* Proceedings of the Second International Symposium on Stock Enhancement and Sea Ranching. Blackwell Publishing Ltd, Oxford. (Jan 2002. Kobe, Japan.)

Recent reports and posters

Adams, C., R. Reisenbichler, and J. Meyer. 1999. Inventory of resident fishes in the upper Elwha River. Pages 3-41 in R. Reisenbichler [ed.] Elwha River ecosystem restoration: Potential effects and restoration methods -- fisheries investigations. Technical Report NPS/CCSOUW/NRTR-99-04, NPS D-309, U.S. Geological Survey, Western Fisheries Research Center, Seattle. 98 p.

Adams, C.A., R.R. Reisenbichler, and C.J. Foote. 1999. The effect of marine-derived nutrients on the growth of wild juvenile coho salmon (Oncorhynchus kisutch). Pages 42-98 in R. Reisenbichler [ed.] Elwha River ecosystem restoration: Potential effects and restoration methods -- fisheries investigations. Technical Report NPS/CCSOUW/NRTR-99-04, NPS D-309, U.S. Geological Survey, Western Fisheries Research Center, Seattle, WA. 98 p.

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