

Salmon and the Economy: A Handbook for Understanding the Issues in Washington and Oregon

For the Center for Watershed and Community Health, ECO examined the issues surrounding salmon conservation measures in Oregon and Washington. ECO compiled representative data on how urban development, timber harvest, agriculture, fish harvest, and dams affect salmon. It also assessed the economic benefits the region could expect if salmon populations and their habitat improve, what it would cost to rebuild healthy salmon populations, and how policy could be changed to help salmon while solving other problems.

Water Allocation in the Klamath Basin

For two regional foundations and a collaborative group with divergent interests, ECO described the competing demands placed on the regional water resources by farming and salmon-habitat protection. ECO redefined this competitive framework and built a model in which the two contribute together to the well-being of the locals.

Economics of Salmon Conservation

For the Center for Watershed and Community Health, ECO initiated a multi-year effort to assess the economic costs and benefits of salmon conservation measures in the Pacific Northwest. ECO also offered policies to increase both the net benefits of salmon conservation and the probability that the region would accomplish its conservation goals. ECO presented this study's key findings in testimony to the Washington State Legislature and in meetings with legislators, legislative staff, environmental organizations, and representatives of the Pacific Northwest business community. The results indicated that if done efficiently and effectively, saving salmon would enhance the value of the services taxpayers receive in return for their tax payments, improve business profits, generate new jobs, and enhance property values.

Salmon, Timber, and the Economy

For a private client, ECO evaluated the potential economic consequences of efforts to adjust Oregon's forest practices to provide a high probability of protecting and restoring aquatic habitat on forestlands important for salmonids.

Impacts of Habitat Protection to Groundfishery in Alaska

For a private client, ECO estimated the potential economic consequences of restricting Alaska's Groundfishery in the area of critical habitat for the endangered Stellar sea lions. ECO reviewed programs aimed at mitigating the impacts of fish-harvest loss, including aiding workers dislocated from the fishery industry.

Economic Analysis of Alternatives for Fishery Management

For a private client, ECO analyzed the potential economic consequences of alternatives regarding state and federal management of fishery resources in the Gulf of Alaska.

Economic Analysis of Seafood Industry Infrastructure Improvements

For a private client, ECO conducted an economic analysis of proposed infrastructure improvements to enhance the seafood industry in Franklin County, Florida, which was impacted by hurricanes and is threatened by coastal development. ECO analyzed the benefits and impacts of a proposal to build a Seafood Industrial Park and Public Landing Parks.

Economic Impacts of Designating Critical Habitat for Endangered Species

For U.S. Fish and Wildlife Service, Portland Office, ECO described the economic effects of the designation of critical habitat to support the recovery of two endangered fish in the Upper Klamath Basin and of the marbled murrelet, which has habitat in Oregon, Washington, and Northern California.

Socioeconomic Impacts of Ecological Riparian Restoration

For the U.S. Environmental Protection Agency, ECO co-authored a conceptual manual for assessing the socioeconomic consequences of ecological restoration projects for rivers and wetlands. The manual compared the impacts realized from wetland management to the impacts from dam construction. The authors then employed the manual in a case study of the Vermillion River in South Dakota.

Demand for Recreational Fishing on Flathead Lake

For the Montana Attorney General's Office, ECO analyzed the demand for recreational fishing in the Flathead Lake region in a dispute over the State's authority to regulate fish and game on an Indian reservation. ECO examined Mescalero issues to determine the State's economic interest in the resource (the net economic benefit foregone if the resource were lost) and the tribe's economic interest (the extent to which nonmembers would stay away and not spend money on the reservation if they must buy both a state license and a tribal permit). ECO also examined Brendale issues to determine the extent to which the reservation's economy is unique and distinct.

Economic Effects of Salmon Recovery

For the Columbia Conversations Program at Portland State University, ECO evaluated alternatives for mitigating the potential adverse economic effects and enhancing the potential positive effects of salmon recovery on the Columbia River Basin.

Impacts of Proposed Changes in Forest Practices to Promote Salmon Recovery

For a private client, ECO evaluated the potential economic consequences of proposals to promote salmon conservation by restricting logging on private and state forest lands. ECO summarized the literature and available data regarding the potential costs and benefits of logging restrictions as well as their negative and positive impacts on jobs and incomes. ECO concluded that most studies exaggerate the costs and negative impacts on jobs and incomes of logging restrictions, while ignoring the benefits and positive impacts.

Critique of Economic Impact Statement on Consequences of Dam-Bypass Construction

For a private client, ECO prepared a critical review of the economic analysis in the U.S. Army Corps of Engineers' Draft FR/EIS for Lower Snake River Juvenile Salmon Migration. ECO examined the Corps' analytical methods and their findings for individual economic sectors impacted by a possible bypass of four dams on the lower Snake River. Trout Unlimited submitted the report to the Corps as written comments on the FR/EIS.

Economic Implications of Mining in Puget Sound

For a confidential private client, ECO examined the economic issues associated with a proposal to mine sand and gravel and construct a new pier and barge facility in a protected marine reserve on Vashon-Maury Islands in Puget Sound.

Environmental Impacts of the Exxon Valdez Oil Spill

For a private client, ECO documented and described the economic and environmental impacts of the Valdez oil spill on Alaska's communities. ECO developed a framework for continuous monitoring of community effects of the spill and recommended ways to contend with problems and plan for future oil development. ECO assisted in identifying appropriate areas for policy changes, where and how to apply community monetary or administrative resources in planning how to respond to identified impacts, and in formulating legislation which will insure protection of key resources and resource values into the future. ECO coordinated the analysis of all economic and environmental impacts on fishermen, fish processors, and the affected communities for the combined plaintiffs of the seven oiled cities on Prince William Sound.

Economic Consequences of Salmon Conservation

ECO authored a letter outlining six analytical principles for assessing the economic consequences of salmon conservation and circulated it among professional colleagues. More than 75 co-signers endorsed the letter, which was sent to the governors of the four Pacific states and the premier of British Columbia. The letter particularly emphasized the need to consider the benefits of salmon conservation as well as the costs, and the positive as well as the negative impacts on jobs and incomes.

Economic Impacts of Salvage Logging on Salmon Populations

For a private client, ECO analyzed the economic impacts of forest-management strategies that would enhance salmon habitat on six national forests in Idaho. In addition, ECO analyzed the full economic costs of salvage logging on federal lands in eastern Oregon, eastern Washington, and Idaho.

Changes in Attitudes about Importance of and Willingness to Pay for Salmon Recovery in Oregon

For the U.S. Department of Agriculture's Forest Service, ECO collaborated with Dr. Claire Montgomery of Oregon State University, Department of Forest Resources, to analyze data on Oregonians' stated importance of and willingness to pay for salmon habitat recovery. This study is unique in that it analyzed data collected biennially between 1996 and 2002.

Economic Consequences of Hatchery-Management Programs

For the Columbia Basin Fish & Wildlife Authority, ECO examined the economic elements of the environment that might be affected by the alternative hatchery-management programs for the Columbia River Basin. ECO's analysis was incorporated into a Draft Programmatic Environmental Impact Statement.

Economic Impacts of Recreational and Commercial Fishing

For a private client, ECO integrated the results from past studies into a report that analyzed the economic importance of the salmonid fisheries in the Pacific Northwest and the possible economic consequences of a collapse of these fisheries, should riverine ecosystems not be protected.

Economic Analysis of Curtailing Grazing on Public Lands

For a private client, ECO analyzed the economic effects of the opinion by the Ninth Circuit Court of Appeals, in *Pacific Rivers Council, et al., v. Thomas, et al.*, in which the court enjoined cattle grazing on two national forests until the Forest Service completes Section 7 consultations with the National Marine Fisheries Service regarding the impact on critical habitat for the endangered Chinook Salmon of the Snake River.

Economic Benefits of Restoring Streamflows in the Eel River

For the Center for Environmental Economic Development, ECO assisted with an analysis comparing the positive and negative economic consequences of restoring natural streamflows in the Eel River, California, rather than diverting the water to the Russian River. ECO analyzed these economic values in the context of salmon-population restoration and its impact on the well-being of humans.

Critique of Economic Analysis of Critical Habitat for the Tidewater Goby

For a private client, ECO described the economic consequences of a proposal to protect critical habitat for the Tidewater Goby, a fish species that inhabits coastal lagoons and tidal marshes in California.

Critique of Economic Analysis of Critical Habitat Protection for Salmon in the Pacific Northwest

For a private client, ECO reviewed a draft economic analysis prepared by NOAA Fisheries of the potential impacts of designating critical habitat for 13 species of Pacific salmon and steelhead.

Economic Impacts of Critical Habitat Designations

For a private client, ECO wrote an affidavit on the economic impacts of critical habitat designation, specifically addressing salmon habitat in the Pacific Northwest. ECO concluded that, contrary to a commonly held belief, the designation would not have negative economic impacts and that, on the contrary, it may spur economic growth.

Economic Assessment of Critical Habitat Designation for the Rio Grande Silvery Minnow

For the U.S. Fish & Wildlife Service, ECO described the potential economic consequences of a proposal to designate critical habitat in the Middle Rio Grande Valley of New Mexico for an endangered species, the Rio Grande silvery minnow.

Mitigation of Economic Impacts from Dam Bypasses

For private clients, ECO evaluated the economic impacts of bypassing four federal dams on the Lower Snake River. ECO also developed a plan to mitigate the negative consequences of the bypass. ECO testified on these topics before the House Subcommittee on Fisheries Conservation, Wildlife and Oceans, and the Subcommittee on Water and Power.

Socioeconomic Impacts of a Water-Management Program

For a private client, ECO described the current conditions in the Columbia Basin and analyzed the socioeconomic impacts associated with different components of the Columbia River Water Management Program. The Program seeks to balance competing demands, such as agriculture and endangered aquatic species. ECO's analysis was included in a Draft Programmatic Environmental Impact Statement.

Regional Economic Impacts of the Columbia River Management

For the Northwest Water Law and Policy Project, ECONorthwest analyzed the role of the Columbia River in the economy of the Pacific Northwest. ECO described an economic framework for analyzing the economic consequences of alternatives for managing the Columbia River. The analysis included a discussion of the extent to which water and habitat are used to support salmon and water-intensive industries.