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## Ray Beamesderfer – Consulting Fish Scientist

### To the Kenai River Sportfishing Associations

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#### Education

*B.S., Wildlife & Fisheries Biology, 1979, University of California, Davis.*

*M.S., Fishery Resources, 1983, University of Idaho.*

#### Employment

*Cramer Fish Sciences, Senior Fish Scientist, 2000-2013.*

*Oregon Department of Fish & Wildlife, Fishery Management Biologist, 1997-2000.*

*ODFW, Staff Biologist/Analyst, 1994-1997.*

*ODFW, Fish Research, 1983-1993.*

Ray has analyzed applied problems of fish biology and management for over 25 years. He has:

- Extensive experience with salmon, steelhead, trout, sturgeon, warmwater gamefish, and nongame species.
- Worked in Oregon, Washington, Alaska, Idaho, Montana, California, British Columbia, Russia and Japan.
- Completed numerous reports, plans and 20+ peer-reviewed scientific publications on fish monitoring and evaluation, population dynamics, species interactions, conservation, and management.
- Special expertise in the use of quantitative analysis, statistics, and computer modeling to address difficult fish questions and in synthesizing and translating scientific analyses for a variety of audiences.

At Cramer Fish Sciences, Ray has completed a wide variety of projects for State and Federal agencies, Indian tribes, private industry, and non-governmental organizations regarding:

- Fish monitoring, research & evaluation
- Biological assessment
- Conservation & recovery analysis & planning
- Research, monitoring, and evaluation planning
- Fishery management & regulation
- Hatchery evaluation
- Fishery sustainability certification

Previously, he worked for the Oregon Department of Fish and Wildlife as a management biologist for Columbia River salmon and sturgeon fisheries and U.S. v. Oregon Technical Advisory Committee; staff analyst and agency representative for inter-jurisdictional Columbia River salmon, resident fish, and hydropower issues; and program and project leader for research on salmon predation, sturgeon stock assessment, fish management evaluations, and adult and juvenile salmon passage at dams and diversions.

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## Current & Past Clients

### Federal Agencies

Bonneville Power Administration  
Canadian Dept. of Fisheries & Oceans  
National Marine Fisheries Service  
Pacific Fishery Management Council  
U.S. Bureau of Reclamation

### State & Local Agencies

Alaska Department of Fish & Game  
British Columbia Ministry of the Environment  
Matanuska-Susitna Borough (Alaska)  
Oregon Department of Fish & Wildlife  
Washington Department of Fish & Wildlife  
Washington Lower Columbia River Fish Recovery Board

### Non-governmental Organizations

Kenai River Sportfishing Association  
Marine Stewardship Council  
Salmon for All (Commercial Fishery Org.)

### Indian Tribes

Coeur d'Alene Tribe  
Columbia River Inter-Tribal Fish Commission  
Confederated Tribes of the Umatilla Indian Reservation  
Kootenai Tribe of Idaho  
Shoshone-Bannock Tribes  
Spokane Tribe of Indians  
Yakama Indian Nation

### Private Industry

Alaska Power & Telephone  
American Forest Resources Council  
Battelle Pacific Northwest Laboratory  
British Columbia Hydropower  
California State Water Contractors  
Metropolitan Water District of Southern California  
Pacific Gas & Electric Company  
PacifiCorp  
Portland General Electric

## Example Projects

- Marine Stewardship Council assessment of the sustainability of Alaska commercial salmon fisheries. 2007. *Scientific Certification Systems & Alaska Department of Fish and Game.*
- Marine Stewardship Council assessments of the sustainability of commercial pink, chum and sockeye salmon fisheries in Russia (Kuril Islands, Sakhalin Island, Kamchatka) and Japan (Hokkaido). 2008-2013. *Scientific Certification Systems and MRAG International.*
- Development of an abundance-based management approach for Lower Columbia River tule Chinook. 2010-11. *Pacific Fishery Management Council.*
- Biological analysis of population and fishery effects of *de minimis* fisheries for Klamath Fall Chinook. 2007. *Pacific Fishery Management Council.*
- Lower Columbia River salmon and steelhead recovery plan. 2004-2010. *Washington Lower Columbia River Fish Recovery Board, National Marine Fisheries Service Northwest Region.*
- Endangered Species Act fisheries management and evaluation plan for lower Columbia River coho in Oregon freshwater fisheries of the lower Columbia River. 2005. *Oregon Department of Fish and Wildlife.*
- Conservation and Sustainable Fishery Plan Review. 2010. *Washington Department of Fish and Wildlife and Lower Columbia Fish Recovery Board.*
- Report to the Alaska Board of Fisheries on the biological basis of Upper Cook Inlet fishery management proposals. 2002, 2005, 2008, 2011. *Kenai River Sportfishing Association.*
- Fishery assessments and regulatory proposals. 2010. *Matanuska-Susitna Borough, Alaska.*



CFS was established in 1987 to find innovative, effective, and practical solutions to difficult problems related to fish populations and aquatic ecology. We specialize in evaluations of fish status and limiting factors, habitat and environmental relationships, and effects of resource use and management. We are known for synthesizing and translating complex scientific information for scientists, managers, and lay audiences to clarify effects and tradeoffs, and identify effective and efficient alternatives.

Our company is organized around senior scientists and staff including 30 fish biologists and ecologists based in Oregon, California, Washington and Idaho. Our work primarily focuses on salmon, steelhead, and trout throughout western North America, Alaska and the Pacific Rim. Our staff also has expertise with sturgeon; endangered, threatened or protected native species; warm and cool water nongame and gamefish; and marine and estuarine species.

Our clients regularly include local, state, and federal resource management and regulatory agencies; energy and water utilities; Indian tribes; non-governmental organizations; and a range of other interest groups.

## **Core Strengths & Services**

### **Fish & Aquatic Studies**

- *Research, Monitoring & Evaluation*
- *Field Studies*
- *Fish Sampling*
- *Ecological Interactions*
- *Introduced Species*

### **Fish Habitat**

- *Stream Surveys & Monitoring*
- *Stream Protection & Restoration*
- *Watershed Assessment & Management*
- *Riparian Assessment & Management*
- *Ocean & Estuary*

### **Quantitative Analysis**

- *Biostatistics*
- *Experimental Design*
- *Risk Assessment*
- *Mark-Recapture & Survival Estimation*
- *Population & Life Cycle Modeling*
- *Fish Habitat Modeling*
- *Viability Analysis*
- *Geographic Information Systems*

### **Resource Use & Planning**

- *Biological Assessment*
- *Fishery Management & Sustainability*
- *Hatchery Evaluation & Planning*
- *Hydro/Water Development & Effects*
- *Conservation & Recovery Planning*
- *Endangered Species Act Consultations*