

**JIM D. GRISWOLD, *Biometrician*****EDUCATION**

M.S.	Washington State University, Pullman, Washington	2005	<i>Statistics</i>
M.S. Coursework	Juneau School of Ocean & Fisheries Science University of Alaska Fairbanks	-	<i>Fisheries Science</i>
B.S.	Cornell College of Life Science, Cornell University, Mount Vernon, Iowa	1992	<i>Fisheries Science</i>

PROFESSIONAL EXPERIENCE

2008-Present	<i>Biometrician</i> , Western EcoSystems Technology, Inc., Cheyenne, Wyoming
2005-2008	<i>Research Consultant</i> , Columbia Basin Research School of Aquatic and Fisheries Sciences, University of Washington, Seattle, Washington
2003-2005	<i>Adjunct Faculty and Teaching Assistant</i> , Washington State University, Pullman, Washington
2003	<i>Fisheries Technician</i> , U.S. Forest Service Shasta Trinity Recreation Office, Redding, California
1994-2002	<i>Adjunct Faculty and Educational Technician</i> , University of Alaska Southeast, Juneau, Alaska
1992-1993	<i>Research Assistant</i> , Juneau School of Ocean and Fisheries Sciences, Juneau, Alaska
1990-1998	<i>Research Assistant</i> , University of Alaska Fairbanks Institute of Marine Science and Institute of Arctic Biology, Fairbanks, Alaska
1985	<i>Commercial Longline Deckhand</i> , Gulf of Alaska and Bering Sea
1984-1985	<i>Fishery Biologist (foreign fishery observer)</i> , National Marine Fishery Service, Sand Point, Seattle, Washington
1971-1984 & 1969, 1970	<i>Fish and Wildlife Technician</i> , New York State Department of Environmental Conservation Division of Fish and Wildlife, New York

SPECIALTY AREAS

Fisheries: Fisheries and aquatic organism stream surveys, and hydrological surveys of tributaries to Shasta Reservoir to determine environmental impact of increasing reservoir levels. He has accomplished investigations of factors affecting marine survival of pink salmon, collected benthic samples at Prince William Sound oil spill sites, performed taxonomic identifications of benthic invertebrate samples, Fisheries sampling of trawl catches aboard foreign trawlers in the Gulf of Alaska and Bering Sea. He has also determined stream and lake fishery abundance and age distribution surveys, invertebrate ID and surveys, water chemistry sampling, environmental impact inspections and assessments, age and growth studies, length/weight analyses, and fish culture work.

Wildlife: Mr. Griswold has accomplished upland game bird surveys, wetland plant surveys and wetland mapping, upland vegetation surveys, and deer habitat surveys. He has also performed waterfowl banding and white tail deer aging, and worked on controlled hunts.

Statistical Analyses of Fisheries Data and Modeling: Mr. Griswold has composed statistical analyses of salmon PIT tag and CWT data to determine survival and abundance using product multinomial likelihood modeling, analysis of salmon tissue contaminant data in the upper Columbia River, ANOVA and regression analyses using dam spill factors to explain migration survival of salmon smolt, sample size determinations of a variety of fish and wildlife species to augment pilot survey data, and has also performed the estimation of smolt distribution in real time. He has also performed statistical analysis of the creation of web published harvest, escapement, salmon habitat improvement projects and ocean indices measures of salmon production. Additionally, Mr. Griswold developed inseason and one year ahead salmon forecast models and has performed cluster analysis of Bering Sea benthic invertebrate sample data.

Teaching Experience: Mr. Griswold's teaching experience includes College Algebra, Technical Math, Prealgebra, as well as, Introduction to Statistics Labs, Biometry, Introduction to Statistics, and Business Regression. He has also tutored college mathematics, including calculus, linear algebra and statistics.

Statistical Capabilities and Computing Skills: Mr. Griswold is experienced in using statistical and other programs including SAS, S-plus, R, Minitab, Perl, C++, Microsoft Access, Word and Excel. His statistical techniques with which he is qualified include: linear, nonlinear and logistic regression, sampling theory, ANOVA, loglinear models, generalized linear models, bootstrap, randomization tests, multivariate statistical methods, Chi-Square tests, time series techniques, and quality control statistical methods.

SELECTED PUBLICATIONS

Allredge, J.R., **J.D. Griswold**. 2006. Design and Analysis of Resource Selection Studies for Categorical Resource Variables. *Journal of Wildlife Management* 70: 321-323.

Griswold, D.J. 2006. Monitoring and Evaluation of Smolt Migration in the Columbia Basin, Volumes XII-XIV: Evaluation of the 2004-2006 Predictions of the Run-Timing of Wild and Hatchery-Reared Migrant Salmon and Steelhead Trout migrating to Lower Granite, Rock Island, McNary, John Day, and Bonneville Dams using Program RealTime Technical Report DOE/BP-00013690-5, DOE/BP-00013690-4, DOE/BP-00025093-2. Portland, OR : Bonneville Power Administration.