

List of Preparers

List of Preparers

Following is a list of contributors to the Supplemental Environmental Impact Statements For Amendment to the Survey and Manage, Protection Buffer, and other Mitigation Measures Standards and Guidelines.

EIS Core Team

Ray Bosch - *Wildlife Biologist Final SEIS*. Ray holds a B.S. in Wildlife Management from Humboldt State University and attended graduate school in Wildlife Resources at the University of Idaho. Ray has worked for the Forest Service in Arizona, California, and Idaho, and for the BLM as a resource area biologist and planning biologist in western Oregon. Since joining the U.S. Fish and Wildlife Service in 1994, he has participated in Northwest Forest Plan implementation and other section 7 Endangered Species Act consultation issues in western Oregon and northwestern California. Ray is currently employed with the U.S. Fish and Wildlife Service in Portland. Ray is a technical specialist for Northwest Forest Plan and ESA consultation issues in southwest and coastal Oregon.

Robin Bown - *Wildlife Biologist Draft SEIS*. Robin holds a B.S. in Wildlife Biology, a B.A. in Botany, and a M.S. in Wildlife Biology from the University of Montana. Her work experience includes 5 years in forest wildlife management with the Roseburg District BLM and 9 years experience in endangered species management with the U.S. Fish and Wildlife Service. She is currently the Branch Chief for Forest Endangered Species (Oregon Cascades) in the Oregon State Office of the U.S. Fish and Wildlife Service.

Stephen Carter - *Comment Response Coordinator*. Steve has a B.S. in Wildlife Management from the University of Washington. His 28 years of work for federal and state agencies has provided experience in wildlife management, range management, backcountry recreation, wilderness management, and environmental planning. Other special project work includes contributions to the Wenatchee Forest Plan, the Kaoikipu Laysan Albatross Project, and the Interior Columbia River Basin Ecosystem Management Project.

Ken Denton - *Implementation Specialist*. Ken served on the interdisciplinary teams for the Northwest Forest Plan SEIS (1994) and for the Forest Service EIS for the Northern Spotted Owl (1992). As regional silviculturist for the Forest Service in Region 6 and member of the Regional Ecosystem Office Late-Successional Reserve Work Group, he has helped implement the Northwest Forest Plan since 1994. He has 29 years experience with the Forest Service and has worked on five National Forests in California, Idaho, and Oregon in silviculture and planning. He has also served as a District Ranger. He holds a B.S. in Natural Resources from Humboldt State University.

Katherine Farrell - *Writer-Editor Final SEIS*. Katherine has 12 years experience working for the Forest Service in planning. She has been involved in numerous planning efforts including timber sales, range allotment plans, Wild and Scenic River management plans, land exchanges, watershed analyses, and recreation projects. She is currently Writer-Editor for the Prineville and Big Summit Ranger Districts of the Ochoco National Forest.

Phil Hall - *Assistant Draft SEIS Team Leader*. Phil holds a B.S. in Forestry and a B.S. in Conservation from North Carolina State University. He served on the interdisciplinary team for the Northwest Forest Plan SEIS (1994) and was a lead planner in developing the western Oregon resource management plans tiered to the Northwest Forest Plan. He has served on regional teams for the development of watershed analysis guides and for monitoring and research. He has also served as team leader for Late-Successional Reserve assessments. He has provided national level interagency training for the National Environmental Policy Act. Phil has a broad understanding

and familiarity of BLM programs and plans, including the Northwest Forest Plan and environmental impact statements. He has 27 years of federal service. Phil has been with the BLM since 1976 and has worked on two BLM Districts and several resource areas. He is currently the planner for the Roseburg District BLM.

Kathleen Helm - *Writer-Editor Draft SEIS*. Kathleen attended Macon Jr. College in Georgia and Southern Oregon State College and Southwestern Oregon State College in Oregon. She has 20 years experience working for the BLM in environmental planning in the preparation of various types of analysis documents and reports. She has served as writer-editor in the Medford, Coos Bay, and Lakeview BLM Districts and also been on several details at the state, region, and national levels, including the Northwest Forest Plan.

Donald T. Hicks - *Assistant Draft SEIS Team Leader*. Don holds a B.S. in Forestry and a B.S. in Natural Resources from the University of Michigan. He has also completed post-graduate work in Tree Improvement and Forest Genetics at Ohio State University. He has 21 years of experience in three BLM Districts in Oregon in a variety of positions, including Forester, Assistant Area Manager, Supervisory Natural Resource Specialist, Administrative Officer, and District Forester.

Jim Keeton - *Assistant SEIS Team Leader*. Jim holds a B.A. in Geography and a M.S. in Outdoor Recreation Management, both from Southern Illinois University in Carbondale. Jim has worked for the BLM since 1976 and has served in two districts and two resource areas in Colorado, one district in the Eastern States, and one district and resource area in Oregon. Jim has worked as an Outdoor Recreation Planner and Resource Management Planning Team Leader in Colorado, as a district planning and NEPA coordinator in Milwaukee, Wisconsin (Eastern States), and served as the Resource Management Planning Team Leader for the Medford District. Jim has served on a number of interagency EISs and assisted in preparing planning manuals and NEPA handbooks for the BLM. Jim currently holds a supervisory position in the Butte Falls Resource Area, Medford District BLM.

Hugh Snook - *Coordinator*. Hugh earned a B.S. in Forest Management from Oregon State University in 1988 and attended Silviculture Institute in 1994. He has 17 years experience working for the Forest Service in silviculture, fire management, and environmental planning.

Specialists

John Applegarth - *Wildlife Biologist*. John holds an A.B. in Biological Sciences from Stanford University and a Ph.D. in Biology from the University of New Mexico. He is a zoologist with special interests in malacology (study of mollusks), herpetology, and quaternary biology. After doing herpetological surveys and archaeofaunal analyses for federal and state agencies in New Mexico and Oregon, he joined the wildlife staff at the Eugene BLM District. His work there focuses on mollusk and amphibian issues.

Thomas Atzet - *Ecologist*. Tom has a B.S. in Forest Science, an M.S. in Physiological Ecology, and a Ph.D. in Forest Ecology. An ecologist for 25 years, he has worked in timber sale layout and contract administration, reforestation, silviculture, and vegetation management.

Brian Biswell - *Wildlife Biologist*. Brian has a B.S. in Wildlife Biology from the University of Washington, College of Forestry Resources. Since 1985, Brian has been involved in research programs studying wildlife habitat relationships in old-growth, naturally young, and managed forests in the Pacific Northwest. His research assignments have included the ecology of spotted owl prey species (flying squirrels, woodrats, and red tree voles). Currently, he is lead biologist on the Olympic Peninsula spotted owl demographic study. Brian is also a co-principal investigator studying the effects of landscape characteristics and stand structure on the distribution and abundance of red tree voles in western Oregon.

Thomas E. Burke - Wildlife Biologist (Terrestrial Ecology). Tom earned his B.S. in Wildlife Biology from Washington State University in 1971 and was certified by The Wildlife Society in 1979. After 3 years as a Medical Specialist in the U.S. Army and various other jobs, he went to work as Forest Wildlife Biologist for the Colville National Forest, where he participated in writing the Forest Management Plan and Grizzly Bear and Selkirk Mountain Caribou Recovery Plans. He was a member of the International Mountain Caribou Technical Committee for 20 years and chaired that committee for 2 years. In 1992 he was reassigned to the Wenatchee National Forest as Priority Habitat Specialist in an interagency personnel position working with the Washington Department of Wildlife in Olympia. While there, he drafted management recommendations for the candidate species Newcomb's Littorine Snail and the California Floater, a freshwater clam. In 1995 he moved to the Entiat Ranger District of the Wenatchee National Forest to work on Fire Recovery and was later assigned as Wildlife Biologist and Terrestrial Ecology Group Leader for that Ranger District. Tom has studied inland mollusks for 28 years and has been on the Mollusk Taxa Team since its inception in 1994.

Chris Cadwell - Natural Resource Information Specialist. Chris served on FEMAT in the estimation of Probable Sale Quantities. He has coordinated PSQ estimations and GIS analysis supporting development and implementation of the BLM resource management plans in western Oregon. He is co-author of the Implementation Guidance for the 15 percent standard and guideline and has been co-lead in developing interagency vegetation standards for the Northwest Forest Plan area. Chris has 20 years experience with BLM in western Oregon and currently is employed by the BLM Oregon/Washington State Office. He holds a B.S. in Forest Management from Humboldt State University.

Robert H. Deibel - Fishery Biologist. Robert has a B.S. in Natural Resources Management (Fisheries) from California Polytechnic State University and an M.S. in Natural Resources (Fisheries) from Humboldt State University. He served as National Sea Grant Congressional Fellow to the Subcommittee on Oceanography, Committee on Merchant Marine and Fisheries, U.S. House of Representatives during 1983. Previous positions included Fishery Biologist for the U.S. Fish and Wildlife Service and Federal Energy Regulatory Commission, District Fishery Biologist, and Assistant Regional Fishery Program Manager for the Forest Service Region 6. His current position is the National Hydropower Instream Flow Coordinator for the Forest Service.

Nancy Duncan - Wildlife Biologist. Nancy has a B.S. in Biology from Purdue University. She also attended graduate school at Southern Oregon State College (now Southern Oregon University) with an emphasis in wildlife biology. She has worked as a resource area wildlife biologist for 10 years with the Roseburg BLM District and, for the past 2 years, has also served as the interagency mollusk Taxa Team Lead. Nancy has assisted with developing Survey Protocols and Management Recommendations for mollusks, mollusk field guides, and an Intranet mollusk information site. She is also administering several research grants to gain mollusk DNA and diet information. She has also coordinated regional field training and is helping to coordinate development of a standard database for collecting mollusk field data.

Leslie Frewing-Runyon - Economist. Leslie has a B.A. in Economics from Willamette University. She has worked as an economist for the BLM in the Oregon/Washington State Office for the past 10 years, contributing to numerous environmental assessments and environmental impact statements. Other interagency work has included the Interior Columbia River Basin Ecosystem Project and FEMAT.

Joseph Furnish - Aquatic Ecologist. Joseph earned an M.A. in Biology from Humboldt State University and a Ph.D. in Entomology from Oregon State University. He has worked for federal agencies for 12 years and specializes in bioassessment of water quality. Joseph currently works for the Forest Service as Regional Aquatic Ecologist in Region 5 (California).

Russ Holmes - Botanist. Russ holds both a B.S. and M.S. in Biology from East Carolina University. He has worked as a botanist for 19 years for the BLM in Wyoming and Oregon. He currently serves as senior staff botanist for the Roseburg BLM District in Oregon.

Robin Leshner - *Ecologist*. Robin holds a B.S. and M.S. in Biology with emphasis in botany and plant ecology from Western Washington University. She is currently a Ph.D. candidate at the University of Washington in the College of Forest Resources Ecosystem Science and Conservation Program. She has worked as an ecologist in the Area Ecology Program on the Mt. Baker-Snoqualmie and Olympic National Forests since 1984. Her work there involves conducting an ecological inventory and developing vegetation classifications for these two National Forests. As a member of the Scientific Analysis Team, FEMAT, and the Species Analysis Team for the Northwest Forest Plan Final SEIS, Robin was responsible for the analysis of bryophytes, lichens, and fungi. She has been a member of the bryophyte and lichen taxa team since 1994.

Cheryl McCaffrey - *Botanist*. Cheryl holds a B.S. in Botany from the University of Massachusetts, and an M.S. in Botany from the University of Georgia. She has been the BLM Oregon/Washington State Office Botanist since 1989, and for the past 5 years has served as the BLM representative to the Survey and Manage Core Team. Cheryl's experience includes vegetation and wetland mapping and plant community characterization in the eastern U.S. and Alaska and management of the BLM Special Status Plant program in the BLM Burns District Office and for the BLM statewide in Oregon and Washington. She was first lead for the Regional Ecosystem Office Survey and Manage Work Group, which was responsible for coordinating numerous subgroups of taxonomic specialists and data managers. In that capacity, she helped develop and review Management Recommendations and Survey Protocols for Survey and Manage species, as well as assist with Survey and Manage and Protection Buffer Standards and Guidelines.

Loyal A. Mehrhoff - *Plant Ecologist*. Loyal has a B.A. in Botany from the University of Montana; an M.A. in Botany from the University of North Carolina, Chapel Hill; and a Ph.D. in Botany from the University of British Columbia. He has served as a representative with the Research and Monitoring Committee. Among his previous positions were Chief of the Listing Branch for the Pacific Islands Ecoregion; Research Botanist at Bishop Museum, Hawaii; and Research Associate at the University of Washington. His 7 years of federal service includes 4 years with the U.S. Fish and Wildlife Service implementing the Northwest Forest Plan.

Judy Ellen Nelson - *Economist*. Judy has a B.A. in History and Economics and an M.A. in Natural Resource Economics from the University of New Mexico. She has 11 years experience as an economist for various offices: the Soil Conservation Service, Outer Continental Shelf Office, Nevada State Office, Office of Coal Management, and the Division of Rangeland Resources in the National BLM Office in Washington, D.C. In Oregon, she has worked as Assistant District Manager of the BLM Vale District and District Manager in the BLM Lakeview and Eugene Districts. Judy has provided implementation guidance on standards and guidelines for Survey and Manage species pertinent to the Northwest Forest Plan and also for rangeland health in eastern Oregon. She is author or co-author of six published articles on rangeland and grazing. Currently, Judy is Branch Chief of Biological Sciences for the BLM Oregon State Office in Portland, Oregon. In that position, she provides policy and technical advice on forestry, range, wildlife, wild horses, botany, and fisheries for BLM administered lands in Oregon and Washington.

Thomas Edward O'Dell - *Mycologist*. Thomas has a B.A. and B.S. in Biology from Evergreen State College in Olympia, Washington, and a Ph.D. in Botany and Plant Pathology from Oregon State University in Corvallis, Oregon. He has 10 years experience in research and teaching specific to botany and plant pathology. In addition to presently serving as Regional Mycologist, Thomas also is the Assistant Professor of Forest Science with Oregon State University. He has been with the Pacific Northwest Research Station since 1996. He is author of over 20 scholarly publications.

Cay Ogden - *Wildlife Ecologist*. Cay attended Boise State University and the University of Idaho. Cay has 18 years experience as wildlife biologist in various federal land management agencies, including the BLM, the Bureau of Indian Affairs, and the U.S. Fish and Wildlife Service. She is currently employed with the Forest Service at the Region 6 office. Cay has expertise in northern spotted owl recovery issues, the Endangered Species Act, and forest ecology.

Lisa Ollivier - Statistician (Biology). Lisa has an A.A. in biology from Ventura Junior College; a B.S. in Wildlife Management from California State University (Humboldt); and is currently working toward completion of an M.S. in Natural Resources, with emphasis on Wildlife Management and Biostatistics, from California State University. She has 11 years experience as a wildlife biologist in amphibian and reptile biology, habitat requirements, statistical data analysis, and sampling design with the Forest Service. She is also a part-time lecturer in biostatistics at Humboldt State University.

Deanna H. Olson - Research Ecologist. Deanna (Dede) Olson has a B.A. in Biology from the University of California and a Ph.D. in Zoology. She is currently a research ecologist with the Pacific Northwest Research Station in Corvallis, Oregon. She also serves as lead for the amphibian subgroup under the Survey and Manage species of the Northwest Forest Plan, an associate editor for the *Herpetological Review* and the *Northwestern Naturalist*, and co-chair for the Pacific Northwest Working Group, Declining Amphibian Task Force, International Union for the Conservation of Nature, Species Survival Commission. Her professional experience includes studying the ecology and behavior of every vertebrate class in a diverse array of habitats: desert, tropical rainforest, montane lakes, and coastal streams. She has 20 years experience working in biological research. For the last 9 years, Dede has worked for the Forest Service.

James H. Perkins - Forester. Jay holds a B.S. in Forest Management with post-graduate studies in Fire Management from Colorado State University. He started his permanent career in Montana in 1980. He is currently Deputy Fire Staff for the Klamath National Forest, Yreka, California. He has been on the Klamath for 16 years. Jay did the fire planning for the Klamath Land and Resource Management Plan. His career has been in Fire Management with the exception of 2 years as a District Timber Management Officer.

Nancy G. Rappaport - Research Entomologist. Nancy earned a B.A. and Ph.D. in Forest Entomology at the University of California, Berkeley. Among previous positions Nancy has held are: liaison between the Forest Health Protection staff and the Environmental Protection Agency Biopesticide Division; researcher with the Chemical Ecology of Forest Insects research team in Berkeley, California; postdoctoral researcher at the Institut National de la Recherche, in Olivet, France. She has 20 years experience in pesticide bioassay and residue analysis. Currently, Nancy is studying the role of soil, litter, and coarse woody debris arthropods in forest ecosystem processes as a member of the Long-Term Soil and Site Productivity Team at Pacific Southwest Research Station's Silviculture Laboratory in Redding, California.

Jim Roden - Forester. Jim has a B.S. in Forest Management from Northern Arizona University. He has worked for the Forest Service for 22 years in Wyoming, California, Idaho, and Oregon. He is a specialist in timber sale planning, geographic information systems, pomology, and economic analysis.

Roger E. Sandquist - Entomologist. Roger has a B.A. in Biology and an M.S. and Ph.D. in Entomology. He has worked for the Forest Service for 25 years, including 6 years as a pesticide specialist in Washington, D.C. and Ogden, Utah, and the past 19 years as an entomologist at the Forest Service Region 6 office in Portland, Oregon.

Raymond W. Scharpf - Wildlife Biologist. Ray has a B.A. from San Jose State University, San Jose, California. He has 28 years experience as a wildlife biologist with several different National Forests in Region 6. Ray is currently employed with the Gifford Pinchot National Forest as the Forest Wildlife Biologist. He has expertise with northern spotted owl recovery issues, the Endangered Species Act, terrestrial Survey and Manage species, and forest ecology.

Lee O. Webb - Wildlife Biologist. Lee holds a B.S. in Wildlife Biology from the University of Massachusetts and a M.S. in Wildlife Management from West Virginia University. Lee has spent the last 25 years as Forest Wildlife Biologist for the Siskiyou National Forest (Grants Pass, OR) and the last 5 years serving in the same capacity for the Rogue River National Forest. He has extensive experience in managing Endangered, Threatened, and Sensitive plants and animals,

including numerous Endangered Species Act consultation efforts with the U.S. Fish and Wildlife Service. He was involved with the production of the 1989 Land and Resource Management Plan for the Siskiyou National Forest (wildlife, TES species - both plants and animals). He has also assisted with development of a number of regional-level planning efforts during his years with the Forest Service.

Special Acknowledgments

Thanks To:

Robin Bown, who managed the Species Review Process and provided continued technical support to the team in completion of the Final SEIS.

Terry Brumley, Mark Buckbee, Greg Cox, Neal Middlebrook, Dick Prather, Jim Schuler, and Bill Torgerson, the agency leads who provided management direction and coordination to the SEIS team.

Maya Fuller and Aaron Thayer for document review.

Ruth Miller who was such a good writer-editor she was promoted away from the SEIS team.

Marie Egawa, Catherine Henson, Robert Konkle, Glen Mejia, Diane Stutzman, and Beth Vining for managing, inputting, organizing, and analyzing data in the Interagency Species Management System (ISMS) for use in the Species Review Process.

Kathleen Borovac who managed field data calls and ISMS data input and correction and administered the Species Review Process. *John Kramer* for his invaluable technical skills in managing the ISMS database.

Jeanne Keyes, Bob Varner, and Karen Wilson for extracting spatial data for use in the Species Review Process and providing GIS support to the SEIS. *Ryan Robyn* who did all of the GIS analysis for the Timber section.

Mary Ellen Smith for her outstanding computer support. *Michael D. Hamel* for his diligence and skill in typesetting the document. *Linda Novakovitch and Yuri Wojtychiw* for the artwork that graces the document. *Allen Agnew* for his work to make the document available on the internet.

Ginger Erwert, Ellen Keough, Linda Kucera, and Jay Watson, staff at the Regional Ecosystem Office, who provided great support to the SEIS team in addition to their regular duties.

The individual *Species Review Process* panelists listed in Appendix F for assembling and analyzing information on over four hundred species.

Employees of the Forest Service Pacific Northwest Regional Office, the U.S. Fish and Wildlife Service Oregon State Office, Medford District BLM, Salem District BLM, Ochoco National Forest, and Wenatchee National Forest who shouldered extra work in the absence of staff detailed to the SEIS team.

Bill McArthur who acted for an SEIS staff member during their absence for this process.

Steve Dowlan, Ray Scharpf, and Tom Burke for their success with a difficult assignment.

Cindy Fredrickson for assistance with the administrative record.

Steve Odell for assistance writing difficult sections.

Cathy Denton, Sarah Keeton, and Rosie Keeton for valuable support.

Don Rose for turning out the lights.