A Telephone Survey of Social Scientists Conducting Research or Projects Related to Ecosystem Management in the Pacific Northwest

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Produced Through a Cooperative Agreement Between

The University of Idaho
Department of Resource
Recreation and Tourism

and

PNW 94-0517
Pacific Northwest
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Preface

The following report was prepared by University scientists through cooperative agreement, project science staff, or contractors as part of the ongoing efforts of the Interior Columbia Basin Ecosystem Management Project, co-managed by the U.S. Forest Service and the Bureau of Land Management. It was prepared for the express purpose of compiling information, reviewing available literature, researching topics related to ecosystems within the Interior Columbia Basin, or exploring relationships among biophysical and economic/social resources.

This report has been reviewed by agency scientists as part of the ongoing ecosystem project. The report may be cited within the primary products produced by the project or it may have served its purposes by furthering our understanding of complex resource issues within the Basin. This report may become the basis for scientific journal articles or technical reports by the USDA Forest Service or USDI Bureau of Land Management. The attached report has not been through all the steps appropriate to final publishing as either a scientific journal article or a technical report.

Table Of Contents

I. Introduction:

In 1992, the Chief of the USDA Forest Service released an important and far-reaching directive to all regions and research stations. This directive announced a USFS commitment to using an ecological approach in the future management of National Forests and grasslands (i.e. ecosystem management). This directive also urged that several important new perspectives be carried forward, highlighting the continuing importance of maintaining partnerships between land managers and natural resource and social scientists. He stated that these efforts are to be encouraged in order to ensure that, "USFS decision making reflects the best science and closes the gap between the level of scientific knowledge and its application in day to day management."

In an effort to help ensure continuing cooperation and communication between the scientific community and land mangers a telephone survey of social scientists affiliated with academia, government agencies and private institutions in Idaho, Montana, Oregon and Washington was conducted. The main goal of the survey was to identify what research efforts or projects are underway related to ecosystem management. The primary emphasis was placed on identifying expertise in the human aspects of ecosystem management in the Pacific Northwest.

The objectives of this study were to:

- Identify social scientists actively pursing ecosystem related research in Idaho, Montana, Oregon and Washington;
- Identify the topics of ecosystem-related research and projected completion dates, where possible;
- Identify what additional research questions or issues related to the human aspects of Ecosystem Management they feel need to be addressed;
- Identify what these researchers believe to be the primary benefits of social science research related to ecosystem management.

This document outlines the methods used in implementing the survey, provides a narrative summary of responses to questions and an annotated bibliography of the survey respondents by state, including a description of their research topic(s). This study was conducted through a cooperative agreement between the University of Idaho Department of Resource Recreation and Tourism and the Pacific Northwest Forestry Sciences Lab. It will be used by the East Side Ecosystem Management team in formulating a framework for Ecosystem Management in the Colombia River Basin.

II. Methods:

The study began with the identification of academic institutions in the four-state area (Idaho, Montana, Oregon and Washington) that have faculty who might be involved in research into the human aspects of Ecosystem Management. This included a total of 42 colleges and universities with bachelor's and master's degree programs in a related field (i.e. forestry, environmental studies, sociology, etc.). A telephone survey instrument (see Appendix A) was developed to meet the objectives of the study and to identify other researchers that should be contacted. A respondent contact sheet (see Appendix A) was also created to simplify data collection and entry.

Typically, the sociology or social science departments of an institution were contacted first to determine if there were any faculty members conducting research related to ecosystem management. Other departments more directly related to forestry or environmental sciences were also contacted to find faculty that met the criteria of the study. When a researcher was identified that met the criteria he or she was interviewed and was also asked to identify other researchers doing related research. This led to the identification of researchers in other institutions, government agencies and private organizations. The names of researchers outside the four-state area were also compiled but not surveyed, at this time.

A total of 59 researchers were contacted in the four-state area. Potential respondents were asked if they were currently conducting social science research or projects related to the concept of Ecosystem Management. The respondents were allowed to decide for themselves if their work met that criteria; if so they were interviewed, if not they were asked for other contacts. No one refused to be interviewed; however, some contacts were not made with likely respondents because they could not be reached after multiple attempts. Persons performing economic research related to Ecosystem Management were not included in this survey, as this topic is being covered elsewhere by the East Side Ecosystem Management team.

Data were transferred from the completed contact sheets to a Microsoft Word for Windows data file. Information on the researchers (name, institution, address, etc.) and their respective topic of research or project were then compiled into an annotated bibliography by state. Data from the two open ended questions were examined using content analysis methodology. Data were first hand sorted by content, into categories, then a confirmatory sort was performed. A narrative summary of these results follows.

III. Results:

A. CONTRIBUTIONS THE SOCIAL SCIENCES COULD MAKE TO ECOSYSTEM MANAGEMENT.

A total of 91 statements were collected related to how the Social Sciences could contribute to Ecosystem Management. These were sorted into 12 categories. The following is a summary of these categories and responses.

Ecosystem management is Social Science.

Ecosystem management is a human, social construct and enterprise, its implementation is basically a social science.

The Social Sciences can aid in the development of Ecosystem Management frameworks and strategies.

The Social Sciences provide an information base, perspective, and rigor which are important in the development of Ecosystem Management. They can provide a collaborative framework for integrating the various disciplines working on the concept. They can aid in identifying indicators to measure social and biological change related to ecosystems. Additionally they can help develop social criteria for the adoption of various Ecosystem Management alternatives and actually define the role of public demands and expectations in Ecosystem Management.

Ecosystem management problems are predominately social problems.

Humans are the major players in manipulating ecosystems; the social sciences give us the tools to understand their role. Resolving social issues related to natural resource management is an essential component of ecosystem management. Most ecosystem management decisions will be made based on social and political systems.

Attitudes, beliefs and values held by the public can be identified through the use of the Social Sciences.

The social sciences can provide baseline information on how humans think about and value ecosystems. They can help to clarify the perceptions and values of different stakeholders involved in planning processes. Additionally, the social sciences provide frameworks and methodologies which allow the focus of management to be broadened to include peoples' values and the needs of communities. They allow us to assess salient beliefs in connection with natural resource decisions.

The Social Sciences contribute to the implementation of effective public involvement.

The Social Sciences provide a wide range of tools for working with the public in Ecosystem Management planning: identifying groups/publics that need to be involved; dispute resolution and mediation; defusing hostilities; and facilitation of meetings. They can also aid in conceiving the conceptual framework for the role of people in ecosystem management.

The Social Sciences provide an understanding of social systems and cultures which is essential to Ecosystem Management.

The Social Sciences have the capacity to define human systems, social dynamics and the social construction of reality and can relate these to ecosystems. They can provide an understanding of how Ecosystem Management decisions will impact and change social systems. The Social Sciences can give natural resource managers an historical perspective; a comparative look at the way cultures have interacted with nature in the past.

The Social Sciences can help to define and understand ecosystems and Ecosystems Management.

The Social Sciences can aid natural resource scientists in refining the definition and identification of ecosystems as well as translate the importance of ecosystems and the ramifications of Ecosystem Management to citizens.

The Social Sciences can aid in understanding organizational structures.

The Social Sciences can help natural resource agencies to understand the organizational changes that are occurring within them. Additionally they can provide insights into the organizational structure of affected or interested publics. The Social Sciences can aid in designing organizations that are more effective.

The Social Sciences can benefit communities.

The Social Sciences can provide assessments of communities in terms of socio-economics and values. They can help communities plan for change and aid in transitions from unstable economic dependencies. The Social Sciences could help to develop new and more positive ways for people to protect their lifestyles.

The Social Sciences provide an understanding of economic and political systems.

The Social Sciences raise the agenda of economics and politics to the same level as nature. They provide an understanding of and ways to deal with the politics ofenvironmental issues. The Social Sciences provide methods for placing issues of Ecosystem Management in a political and economic context.

The Social Sciences can provide direct benefits to natural resource managers.

Social Sciences can provide managers with information about the effects of their decisions on communities and regional economies, by providing a better understanding of who is using the forest and for what purposes. The Social Sciences aid in developing processes to identify problems and solutions which emphasize collaborative learning and planning. Social Sciences possess the tools needed to: resolve conflicts over natural resource use; identify what the future condition of the land base should be; predict impacts of and barriers to recovery efforts and plans; identify possible trade offs; work the interface between lay persons and technical specialists; and define what is socially acceptable in terms of land use management. Finally, the Social Sciences help establish the context and identify the value of research or management efforts. All natural resource decisions are ultimately based on social processes.

B. IDENTIFICATION OF RESEARCH QUESTIONS OR RELATED ISSUES THAT NEED TO BE ADDRESSED.

A total of 121 comments were received related to Social Science research questions or issues related to Ecosystem Management that the scientists thought need to be addressed. These comments were sorted into 14 categories. The following is a summary of those comments and categories.

What is Ecosystem Management?

There is a need to identify the myriad definitions and perceptions of Ecosystem Management. What are the politics of the definitions (especially ecosystems)? How much a part of the ecosystem are people considered to be? What are the social definitions of ecosystems? There is a need to identify the political factors that influence Ecosystem Management decisions. In looking at the rhetoric of Ecosystem Management, where are the conflicts and how do we address them? How close will Ecosystem Management get to the kind of social and economic monitoring that is needed? Processes need to be developed which move Ecosystem Management away from the limitations of the rational comprehensive planning model.

Agency structures and capacities.

There is a lack of institutional structure and capacities to deal with and accomplish Ecosystem Management. How can the complexities of Ecosystem Management be translated into policy? How do organizations which are based on one approach to natural resource management take a completely new approach (i.e. moving away from extractive uses). Governance structures and processes need to be developed for Ecosystem Management. What is the organizational structure of the agencies and what influences their decisions? The USFS is lacking some important Social Science skills (demography, organizational behavior and geography). Agencies lack the ability to educate the public, which is essential in fostering mutual learning. Agencies need to more effectively communicate with people. How will the human dimensions of Ecosystem Management be applied at the agency level?

Agency decision making.

How will decisions be made differently from the way they are now? How are decisions made and what policies need to be changed? How do agencies really begin sharing decisions with the public? When agencies say they want public participation, at what level do they want it and can that level change? There is a dirth of public trust of natural resource management agencies. People need to be taken into account when making policy. How acceptable are adaptive management techniques to managers?

Understanding values.

There is a need for a better understanding of how people value and are attached to natural environments. How do we identify values? We need to measure the ecological values held by the public: what levels of understanding do they have of the different levels of ecology and ecosystems? What are the values that shape peoples' understanding of the environment? Publics and decision makers need to work together to understand the diversity of values associated with Ecosystem Management. Studies of how people's value systems affect natural resource decision making are needed.

Dealing with public involvement at differing scales.

How to deal with the question of the influence and involvement of local, regional and national publics. How to ensure that unrepresented publics are included in decision making. There are no good processes for accomplishing this.

Demographic data.

There is a need to identify the demographics of the various publics and understand the implications for Ecosystem Management. How do the changing demographics of rural areas affect the values being placed on ecosystems? There is a need for better baseline demographic data. What are the global and national social trends (i.e. migration) that affect ecosystems? How do we meet future resource needs without simply moving ecological destruction from one region to another as global and regional human populations grow?

Conflict Resolution.

There is a need for a better understanding of different cultures and their effect on the environment. Research into aspects of conflict between cultural perspectives over resource management is needed. How do we deal with cultural and ethnic differences in Ecosystem Management? How will stakeholder groups that are working together resolve the fair representation issue in the Federal Advisory Committee Act (FACA)? Was FACA meant to be applied to local task forces working on resolving natural resource conflicts? There is a need for a forum for people to sit down and talk to each other and work through conflicts over how nature is managed. Are there ways that human wants and needs can be made consistent with what the ecosystems can provide (i.e. reduce demand)?

Public Involvement.

How are people to be included in Ecosystem Management? What are the barriers to and the role of public involvement in Ecosystem Management? What are the relationships that the public have with these ecosystems? Long term solutions must include the people who use the environment. There is a need to determine peoples' knowledge and understanding of the concept of Ecosystem Management. There is a need to track public preferences to figure out what they are willing to go along with. Public involvement is more than just public hearings. There is a need for methods of involving people who may not have the time or money to allow them to get involved.

Social Sciences vs. the Natural Sciences.

The Social Sciences do not seem to be well accepted by natural resource managers and scientists. Methods for getting other disciplines to listen to the Social Sciences are needed. How might natural and social scientists work together? How can the social and biological information data bases that exist be integrated? There is a need to collaboratively identify the indicators of ecosystem health which include both the social and biological aspects of Ecosystem Management at different scales.

Historical aspects.

What do we use as an historical baseline for ecosystems? What is the history of human actions on the land that have shaped public perceptions of the land and human actions on it. Agencies need to engage in more historical inquiries in order to place science in an historical perspective.

Local/ rural communities.

What are the implications of the growing separation of production from consumption? Is it leading to problems and if so how should they be dealt with? What is the relationship of the lower to middle class working community to federal lands? Who is the rural community; is a landed gentry being developed? Who are the people whose livelihoods depend on the ecosystem? How are communities sustained? Where is the balance between the needs of local natural resource dependent communities and outside interests in making decisions about natural resource use? How can private enterprise be involved in work like watershed restoration? Communities need to be involved in the selection and assessment of indicators of ecosystem, watershed and community health. How much are the lifestyles of people living within ecosystems valued? What role do special forest products play in community stability? What are the long term trends of natural resource dependent regions? What is the relationship between environmental and community health? The Latino community is being left out of natural resource management; what is to be their role? What is the impact of resource extraction restrictions on families and communities? What are the rights of people in terms of public VS. private property in broad scale Ecosystem Management?

Social Science methods.

There is a need to improve the methods and information to better relate the causal links between resource policy and rural development. The identification of Social Sciences methods useful for macro level social systems analysis. The relationship between ecosystems and socio-cultural systems needs to be articulated. There is a need to understand the relationship between resource conservation and rural economic and social development policy. There is a need for studies which treat social systems as the independent variable and the environmental aspects as the dependent. Methods need to be developed which incorporate the needs of rural communities,

industry, and people into the design of Ecosystem Management strategies in order to achieve a favorable social, economic and rural development responses. Ways of measuring the long term economic costs and benefits of extractive uses to ecosystems and communities are needed.

Miscellaneous needs, issues and research questions.

- Need to evaluate and monitor the Clinton Plan.
- Need detailed case studies of Adaptive Management Areas.
- Need better comparability of data between states.
- Need to zone land uses.
- What are the environmental and social impacts of tourism activities?
- What are the implications of the information superhighway for Ecosystem Management?
- The endangered species act causes a lot of conflict when the same could be accomplished without conflict.
- How will social systems be created relative to the ecosystems being managed?
- Are the underlying concepts of the Eco-regions identified in the 1970's meaningful today, particularly in considering human and biological systems?
- How is nature represented in language and how is it played out in behavior?

C. SOCIAL SCIENTISTS CONDUCTING RESEARCH OR PROJECTS RELATED TO ECOSYSTEM MANAGEMENT IN THE PACIFIC NORTHWEST

The following sections contain information on the survey respondents and their respective research topics or projects, divided by state. E-Mail or Data General addresses are provided where available.

IDAHO

Researcher:

Brown, Gregory
Adjunct Asst. Professor, Resource Recreation and Tourism
University of Idaho
Moscow ID 83844
(208) 885-6721
gregb@uidaho.edu

Topic:

A study examining the attitudes, values and beliefs of USFS employees with respect to changing perceptions of National Forest management. More specifically, examined the differences in attitudes: (1) between various groups in the FS (AFSEE, staff and line officers); (2) between FS employees over time; and (3) based on gender and professional characteristics. A 1990 mail survey. (Completed: May 1992)

Collaborating Scientists:

Charles Harris, Professor, Resource Recreation and Tourism, University of Idaho.

Researcher:

Cowles, Paul
Wildlands Planning Specialist,
Sustainable Decisions, Inc.
PO Box 8567
Moscow ID 83843
(208) 882-1734
cowle901@uidaho.edu

Topic:

Facilitation of the Frank Church River of No Return Wilderness LAC Citizen's Work Group. Facilitating this 23 member group through the development of a ecosystem management approach to Limits of Acceptable Change Planning (LAC) for the Frank Church Wilderness.

Other Topics:

Presented an interactive working session on Implementing Public Involvement Across Boundaries at the April 1994 American River Management Society (ARMS) conference in Grand Junction CO. This session looked at problems and potential solutions associated with implementing public involvement efforts as ecosystem and watershed level management approaches are adopted. Beginning work on the BLM Campbell Tract LAC in Anchorage, Alaska. Identifying social and biological indicators of resource health, and developing a monitoring plan for the area, in order to ensure the long term viability of this resource.

Collaborating Scientists:

Edwin E. Krumpe, Wilderness Planning Specialist, Sustainable Decisions, Inc. K. Lynn McCoy, Public Involvement Specialist, Sustainable Decisions, Inc.

Researcher:

Force, Jo Ellen
Professor, Forest Resources
University of Idaho
Moscow ID 83844
(208) 885-6441

Topic:

Social change in resource dependent communities. What is the relationship between resource production, local history, societal trends and their impact on social change. Looking attourism, fishing, mining and timber dependent communities. Using historical research methods and regression model.

Collaborating Scientists:

Gary Machlis, Professor, Forest Resources University of Idaho

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Researcher:

Fremouth, John
Professor, Political Science
Boise State University
Boise ID 83725
(208) 385-3931
rrpfreem@idbsu.idbsu.edu

Topic:

The politics of Ecosystem Management; the failed vision process at Yellowstone. Comparison of how the agencies have worked since then. Looking at the methods agencies use to convince the public. Is Ecosystem Management a new process? Is it possible and desirable to convince the public? Using comparative case studies, historical research and interviews. (Completion date: Fall 1995).

Researcher:

Krumpe, Edwin E.
Professor, Department of Resource Recreation and Tourism
University of Idaho
Moscow ID 83844
(208) 885-7428

Topic:

Two studies for the East Side Ecosystem Management Team. Developing a state-of-the art synthesis of the principles and processes of public involvement that will be needed in undertaking Ecosystem Management. Also doing a survey of social scientists performing research related to Ecosystem Management. Focused on identifying the range of topics being researched in the Pacific Northwest, contributions the Social Sciences can make to Ecosystem Management and research questions and issues that need to be addressed.

Other Topics:

Low impact camping knowledge and education: a study of communications effectiveness. Perceived positive and negative outcomes of and institutional barriers to the creation of the National Service of Conservation areas in Costa Rica. An evaluation of long term wilderness campsite impact monitoring at the North Cascades National Park. A mulitdisciplinary look at the concept of Sustainable Development. Current applications of the Limits of Acceptable Change (LAC) planning process within the USFS The identification and evaluation of indicators to monitor wilderness conditions.

Collaborating Scientists:

R. Gerald Wright, Professor, University of Idaho.
David N. Cole, Aldo Leopold Wilderness Research Institute, (USFS, NPS, BLM, USFWS)

Researcher:

Machlis, Gary
Professor, Forest Resources
University of Idaho
Moscow ID 83844
(208) 885-7129

Topic:

Identification of socio-economic factors that influence biodiversity loss. The development of a technique to include socio-economic factors in GAP Analysis (GIS). Using

cross national comparisons, case studies and regional studies as well as GIS and spatial analysis techniques. (Ongoing project)

Collaborating Scientists:

Mike Scott, Head of the Cooperative Fish and Wildlife Unit, University of Idaho.

Researcher:

Marshal, Alan
Professor of Anthropology
Lewis and Clark State College
(208) 799-2348

Topic:

The cultural dimensions of Native American fishing. Peoples attitudes about fish, engagement in fishing and the distribution of fish within the culture. Using historical data. (Completion date: Aug. 1993)

Researcher:

Maughan, Ralph
Asst. Professor, Political Science
Idaho State University
741 S. 7th Ave.
Pocatello ID 83209
(208) 236-2550

Topic:

Environmental mediation theory and practice: mediating the Idaho Wilderness controversy. (Completion date: March'94)

Other Topics:

Placing the Wise Use movement into the context of previous land revolts in the West; what is old and new about it.

Collaborating Scientists:

Doug Nilson, Asst. Professor, Political Science, Idaho State University.

Researcher:

McLaughlin, William
Professor, Resource Recreation and Tourism.
University of Idaho
Moscow ID 83844
(208) 885-7911

Topic:

Tourism, recreation and rural community development in Idaho. Development of data bases, trend measures and identifying values that people associate with forests. Identification of recreation and travel patterns across and within ecosystems. The creation of value based community scenarios for the future. Conducted 30 public workshops on alternative economic futures for rural Idaho communities.

Other Topics:

Development of a rural tourism strategy plan for Idaho. Statewide outdoor recreation planning process. Idaho angler segmentation studies. Integrating the ID fish and game and USFS approaches to fish and wildlife management. Identification of community development directions for Idaho county.

Collaborating Scientists:

John Hunt, Dept. Head, Resource Recreation and Tourism, University of Idaho. Nick Sanyal, Asst. Research Professor, Resource Recreation and Tourism, University of Idaho.

Researcher:

O'Laughlin, Jay
Director, Idaho Forest, Wildlife and Range Policy Analysis Group
University of Idaho
Moscow ID 83844
(208) 885-5776

Topic:

The Policy Analysis Group (PAG) provides scientific analyses of and information services on natural resource issues important to the state of Idaho. Topics researched by the PAG include: BLM riparian policy in Idaho: analysis of public comment; Wolf recovery in central Idaho; Analysis of methods for determining minimum instrearn flows for recreation; Idaho roadless areas and wilderness proposals; Forest health conditions in Idaho; status of grizzly bear recovery in Idaho; Endangered species prospects and implications for Idaho. The PAG collaborates with numerous scientists.

MONTANA

Researcher:

Belsky, Jill
Asst. Professor, Sociology
University of Montana
Missoula MT 59812
(406) 243-4868
so_imb@selway.umt.edu

Topic:

Extensive international experience looking at how people interact with ecosystems. Factors which change human use of resources in critical watersheds and associated with nature reserves and parks. Blending ecological and sociological data collection and analysis.

Collaborating Scientists:

Steve Siebert, Asst. Professor, School of Forestry, University of Montana.

Researcher:

Dolsen, Dana
Department Sociologist,
Montana Department of Fish, Wildlife and Parks
1420 E. 6th Ave.
PO Box 200701
Helena MT 59620-0701
(406) 444-2535

Topic:

Social assessment of Montana residents with respect to the state wildlife program; as part of a larger EIS process. Looking at how the wildlife program should focus its direction for the next 20 years; for both non-game and game species. What options do we have for people to interact with wildlife? What are the public attitudes and beliefs toward the wildlife program? What are the effects of participation and/or non-participation in specific wildlife related activities? Quantitative and qualitative methods (telephone survey and focus groups).

Researcher:

Doyle, Daniel
Asst. Professor, Sociology
University of Montana
Missoula MT 59812
(407) 243-5012

Topic:

Attitudes towards land use and the consequences of those attitudes for different kinds of communities (timber, mining, agriculture and tourism dependent). Comparing attitudes towards conservation and development and the perceptions of their impacts on the community. General telephone survey of all non-urban areas and over-sampling of the above kinds of communities. (Completion Date: Sept., 1994)

Collaborating Scientists:

David Jackson, Professor, Forestry, University of Montana.

Researcher:

Freimund, Wayne
Professor, School of Forestry
University of Montana
Missoula MT 59812
(406) 243-5184

Topic:

A study of ecological aesthetics. Ecological perspectives on aesthetics versus picturesque perspectives. Testing whether the provision of information on those paradigms affect the acceptability of Ecosystem Management type prescriptions.

Other Topics:

Public involvement processes associated with the Bitteroot National Forest. Studying the human dimensions, the effectiveness of public involvement and the effectiveness of technology transfers. Research looking at the development of aesthetic models for ecosystems using forest inventory and analysis data sets.

Researcher:

Jackson, David
Professor, School of Forestry
University of Montana
Missoula MT 59812
(406) 243-2945

Topic:

Swan Valley. A survey of the abilities, capabilities and interests of people as their communities change. Identify what kind of place they want their community to be. Analyze the socio-economic factors that affect trust of land management agencies. Identify the ideological views of how to manage lands in the Swan Valley. (Completion Date: June, 1994)

Researcher:

Manning, Cynthia
Regional Social Scientist
Land and Financial Planning
USFS Regional Office
Missoula MT 59807
(406) 329-3240
DG#: c.manning:rOla

Topic:

Member of the human dimension team for the Bitteroot integrated resource plan. On the national task force on the human dimensions of Ecosystem Management. Looking at the integration of human dimensions into the physical and biological dimensions of Ecosystem Management. Developed a course on social impact analysis.

Collaborating Scientists:

Bev Driver, Resource Social Scientist, Rocky Mountain Research Station. Hobsen Bryan, Professor, University of Alabama.

Researcher:

McCool, Steve
Professor, School of Forestry
University of Montana
Missoula MT 59812
(406) 243-5406
fo-sm@selway@umt.edu

Topic:

Visitor management aspects of Wilderness and wilderness-like resources. Looking at visitor attitudes towards the resource and towards management activities.

Researcher:

Menning, Nancy
Acting Director,
Institute for Tourism and Recreation Research
University of Montana
Missoula MT 59812
(406) 243-5686

Topic:

Wildlife viewing behavior and attitudes toward wildlife and wildlife programs by residents and non-residents in Montana.

Other Topics:

The institute also monitors and surveys non-resident travelers to Montana. Conducts visitor surveys looking at demographics and activities of tourists in Montana.

Collaborating Scientists:

Steve McCool, Professor, School of Forestry, University of Montana.

Researcher:

Polzin, Paul
Director,
Bureau of Business and Economic Research,
University of Montana
Missoula MT 59812
(406) 243-0211

Topic:

The role of the wood products industry in the economy of the West. The contribution to local economies and sectoral. changes (capitol changes, rapid rise in timber prices, etc.). Cross section and time series studies.

Collaborating Scientists:

Charles Keegan, Director, Forest Products Industry Research.

Researcher:

Salwasser, Hal
Professor, School of Forestry
University of Montana
Missoula Mt 59812
(406) 243-5566
DG9: h.salwasser:rOla

Topic:

Exploring the effectiveness of public participation as it has changed over the years. Developing a case study of the Bitteroot National Forest. How has public participation changed since the 1960's? Development of a literature review of consensus approaches to conflict resolution around the country. Participating in the design of public participation processes for Ecosystem Management research demonstration project.

Collaborating Scientists:

Wayne Freimund, Professor, School of Forestry, University of Montana Clint Carlson, Project Director, Intermountain Research Station.

Researcher:

Stroup, Richard
Senior Associate,
Political Economy Research Center
502 S. 19th Ave., Suite 211
Bozeman MT 59715
(406) 587-9591

Topic:

The economics, politics and policy choices related to Natural Resources. What are the consequences of policy and what drives it? Looking at the effectiveness of the Endangered Species Act and how it makes the species the enemy of the landowner.

Researcher:

Trent, Joan
Social Scientist,
Bureau of Land Management
PO Box 36800
Billings MT 59107
(406) 255-2922

Topic:

Identifying attitudes, beliefs and values related to the environment for the East Side Ecosystem Management Project. Looking at local, regional and national publics.

Other Topics:

Developing a methodology for doing social assessments. Working on the Ecosystem Management plan for the Dillon Montana Resource Area.

Researcher:

Watson, Alan
Research Social Scientist,
Aldo Leopold Research Institute
PO Box 8089
Missoula MT 59807
(406) 329-3485
DG#: a.watson:s22101a

Topic:

Socially acceptable forest management practices. Looking at wilderness as an integral part of and example for Ecosystem Management. Examples of compromise and cooperation that are possible. The tradeoffs between use and natural resource impacts. Determining what is socially acceptable. The perceived or actual trade-offs related to fire policy. Determining the social acceptability of policies.

Collaborating Scientists:

Mark Brunson, Asst. Professor of Forestry, Utah State University. Dan Williams, Asst. Professor Department of Leisure Studies, University of Illinois.

OREGON

Researcher:

Bishop, Ellen
Director, Eastside Community and Rivers Program
Pacific Rivers Council
52040 Highway 203
Union OR 97883
(503) 853-2360

Topic:

Working in Grande Ronde with portions of the community that work with commodity producers. Helping individuals and organizations to write grants. Working to overcome timber vs. environmentalist polarization. Developing a stream restoration project involving local people. Developing community outreach programs on the history of logging, and grazing and how to do them in an ecologically sound manner.

Researcher:

Brown, Beverly
Independent Scholar,
Oregon
(503) 476-0425

Topic:

Interviews in the Rogue Valley. Looking at the community; focusing on people that grew up locally and are at the lower end of the economic spectrum. Talking to them about the changes they see in the Valley and what they think of those changes.

Other Topics:

Interviews with key environmentalists. How are social issues constructed by them? Did they see the issue ending at the border of public lands" Covered environmental, social and rural issues.

Researcher:

Christensen, Chris
Research Social Scientist
USFS Pacific North West Research Station
Portland Forestry Sciences Lab
Social and economic values res. program.
PO Box 3890
Portland OR 97208
(503) 321-5897
DG#: **c.christensen:s261,07a**

Topic:

Rural development research into the economics and social values of Ecosystem Management. To understand the linkages between natural resource policies and rural economic and social development.

Collaborating Scientists:

Gary Machlis, Professor, Forest Resources, University of Idaho. Jo Ellen Force, Professor, Forest Resources, University of Idaho. Margaret Shannon, Director, Institute for Resources in Society, University of Washington.

Researcher:

Cordray, Sheila
Asst. Professor, Sociology
Oregon State University.
Corvalis OR 97331
(503) 737-5375
cordrays@ccmail.orst.edu

Topic:

Looking at Century Farms (farms used by the same family for 100 yrs or more) from the perspective of sustainable social systems. To what extent do they meet the criteria of sustainable ecosystem management?

Other Topics:

Involved in planning a conference for the EPA and the Center for the Analysis of Environmental Change on risk assessment in ecosystems.

Collaborating Scientists:

Mary Lynn Rousk, Asst. Professor, Oregon State University. Katherine Goetz, Asst. Professor, Family and Human Resource Planning.

Researcher:

Cramer, Lori
Asst. Professor, Sociology
Oregon State University
Corvalis OR 97330
(503) 737-5382
cramerl@ucs.orst.edu

Topic:

Restructuring K - 12 education to emphasize ecology. Adjusting the curricula in terms of ecosystems education to better prepare students.

Researcher:

Daniels, Steve
Asst. Professor, Forest Resources
Oregon State University.
Corvalis OR 97331
(503) 737-3055
danielss@ccmaii.orst.edu

Topic:

To develop collaborative decision making processes that can deal with the decision attributes of public land management which includes ecosystem management. Alternative dispute resolution and soft systems methods. (Completion Date: ongoing)

Collaborating Scientists:

Greg Walker, Dept. of Speech Communication, Oregon State University.
Matt Carroll, Asst. Professor, Natural Resource Sciences, Washington State University.
Keith Blatner, Economist, Washington State University

Researcher:

Gail, Dick
Professor of Sociology
Director of the Environmental Studies Program
University of Oregon
Eugene, OR 97403
(503) 346-3984
rpgail@oregon.uoregon.edu

Topic:

What should forests sustain? What is sustainability and how do we operationalize it? Developing examples in marine fisheries, agriculture and forestry. Exploring the why, how, politics and consequences of 8 types of sustainability. How do we measure to what extent we are sustaining the resource? Looking for indicators of sustainability.

Researcher:

Geier, Max
Asst. Professor, History
Western Oregon State College
Monmouth OR 97361
(503) 838-8369

Topic:

The interaction between community development and perception and development of resources. How human actions on the land have changed based on perceptions of the resource. Using oral histories, data led reconstructions. The impact of corporate and national policies on local communities and the way they adapt resource development.

Researcher:

Kellogg, Erin
Director of Policy and Communication
Eco-Trust
1200 NW Front Ave, suite 470
Portland OR 97209
(503) 227-6225

Topic:

Working with local communities to promote conservation based sustainable development. Focus is on coastal temperate rainforests. Understanding and developing ecological and socio-economic information and making it available to communities. Conservation not just protection, i.e. promoting stewardship in forestry, farming and fishing. Economic development: providing environmental entrepreneurs with resources. Reforming policy by using local experiences to guide policy makers.

Collaborating Scientists:

Jerry Franklin, Professor, University of Washington. Paul Alaback, Asst. Professor, School of Forestry, University of Montana. Peter Shoonmaker, Director of Science, Eco-Trust. Bettina von Hagen, Director of Ecological Economics, Eco-Trust.

Researcher:

Knott, Kathy
Anthropologist,
Waldo Hall
Oregon State University
Corvalis OR 97330
(503) 752-1466

Topic:

Working on the Social Sciences component of an Adaptive Management Area on a local watershed. Developing an ethnographically rich description of stakeholder groups. Looking at land use / tenure patterns, beliefs and attitudes towards land use issues. Interested in constructing new models for decision making. Constructing a social history of interactions between groups and identifying potential volatility.

Collaborating Scientists:

Lori Cramer, Sociologist, Oregon State University. Steve Radosevich, Director, Sustainable Forestry Program Oregon State University.

Researcher:

Love, Thomas
Asst. Professor, Anthropology
Linfield College
McMinnville OR 97128
(503) 434-2504
tlove@linfield.edu

Topic:

Ethnographic study / profile of mushroom pickers on the Olympic Peninsula. Using participant observation and survey. (Completion date: late 1996)

Collaborating Scientists:

Matt Carroll, Asst. Professor, Natural Resource Sciences, Washington State University. Keith Blatner, Economist, Washington State University.

Researcher:

Radosevich, Steve
Director, Sustainable Forestry Program
Oregon State University.
Corvalis OR 97331
(503) 737-6081

Topic:

Sustainable forestry program: funded through the man and the biosphere program. Studying the causes and the consequences of resource management decisions on adjacent drainage basins in Central Oregon. Using GIS to look at land use / ownership and census data. Mail surveys of peoples attitudes towards environmental concerns, different options for managing forests and trade offs between environmental and economic concerns. Also looking at where people get information, how well informed they feel they are, how involved and how much confidence they have in their information sources.

Collaborating Scientists:

The Sustainable Forestry Program, Oregon State University: Sheila Cordray, Asst. Professor of Sociology. Larry Cramer, Professor of Sociology. Kathy Knot, Anthropologist. Cortland Smith, Anthropologist. Brent Steel, Asst. Professor, Political Science. Peter List, Professor of Philosophy. Phil Sollins, Professor of Forest Science. Joe Kurchessy, Professor, Forest products. Bruce Shindler, Professor of Forest Resources. Richard Clinton, Professor, Political Science. Kathleen Goetz, Family and Human Resource Planning.

Researcher:

Robbins, William
Professor, History
Oregon State University.
Corvalis OR 97331
(503) 737-1270

Topic:

Landscape and the intermountain Northwest: an environmental history. Done in collaboration with the Pacific Northwest Research Station in Portland (General tech. report PNW-GTR-319-FEB 94). An historical overview from the Indian period to the present. (Completion Date: March'93)

Other Topics:

Beginning an environmental history of Oregon.

Researcher:

Shelby, Bo
Professor, Forest Resources
Oregon State University
Corvalis OR 97330
(503) 737-1490
shelbyb@ccmail.orst.edu

Topic:

Social and ecological impacts in wilderness areas. Social and ecological impacts in riparian areas / rivers. Navigability of rivers: boating use, and decisions about navigability. Studying instrearn flows and how they affect recreation and aesthetics.

Other Topics:

The social impacts of sylvicultural treatments on recreational and aesthetic values.

Collaborating Scientists:

Mark Brunsen, Professor, Utah State University.

Researcher:

Shindler, Bruce
Asst. Professor, Forest Resources.
Oregon State University
Corvalis OR 97331
(503) 737-3299
shindleb@ccmail.orst.edu

Topic:

A study comparing national and regional preferences and attitudes towards Ecosystem Management on National Forest lands. Also looked at preferences for types of public involvement in decision making processes. Mail questionnaire. (Completion date: 1992)

Other Topics:

Study identifying and sampling the range of interest groups in Oregon for their attitudes towards Ecosystem Management on federal forest lands. Compiled a directory of Oregon Forest interest groups. Survey of local publics surrounding AMAs assessing attitudes towards Ecosystem Management and AMAs. Doing exploratory work with FS global change research program looking at the human dimensions of global change.

Collaborating Scientists:

Brent Steel, Asst. Professor, Political Science, Washington State University. Peter List, Asst. Professor, Philosophy, Oregon State University. Cortland Smith, Professor of Anthropology Oregon State University.

Researcher:

Smith, Craig
Community Development Coordinator
Rural Development Initiative, Inc.
585 SW 6th Street
Redmond OR 97756
(503) 548-2013

Topic:

Working with Rural Development Initiative, Inc., a private non-profit corporation that aids communities in strategic planning. Provides implementation assistance to communities. When possible, this work includes ecological / watershed management concerns and issues in order to meet goals of sustainable development for communities.

Researcher:

Smith, Cortland
Anthropologist,
Oregon State University
Corvalis OR 97330
(503) 737-3858

Topic:

Working on the National Research Council: addressing the question of the causes of the decline of the environment, especially the endangered species aspects. What are the benefits and costs of making changes to fix the situation? Reviewing existing data and coming up with recommendations. (Completion Date: Sept. 1994).

Collaborating Scientists:

John Magnuson, University of Wisconsin, Madison.

Researcher:

Stankey, George
Professor, Forest Resources
Peavey Hall 0 13
Oregon State University
Corvalis OR 97331-5703
(503) 737-1496
stankey@ccmail.orst.edu

Topic:

The Adaptive Management Areas concept. Building an adequate conceptual framework to use Adaptive Management. Where is the concept going? Begin assessing what is happening in the 10 areas. Develop understanding of the research issues facing these areas and the concept. How do we start learning in a more structured way?

Other Topics:

Continuing follow-up on FEMAT. Developing a technical session on FEMAT for the Fort Collins conference. How do we as social scientists organize ourselves to be better players in the process? Developing a better framework and institutional structures for the Ecosystem Management concept by coordinating and consolidating perspectives.

Collaborating Scientists:

Roger Clarke, Program Manager, People and Natural Resources, PNW Research Station.
Linda Kruger, PNW Research Station.
Steve Daniels, Asst. Professor, Forest Resources Oregon State University.
Matt Carroll, Asst. Professor, Natural Resource Sciences, Washington State University.

Researcher:

Sturtevant, Vicky
Professor, Sociology
Southern Oregon State College
Ashland OR 97520
(503) 552-6762
sturtevant@wpo.sosc.osshe.edu

Topic:

Looking at issues related to social processes the Applegate partnership is going through. Looking at doing Ecosystem Management across ownership patterns. Looking at

issues related to reinventing communities. Participant observation, demographic analysis, and in-depth anthropological interviews. Also collecting information on socio-economic indicators.

Other Topics:

Helping timber community practitioners to implement development projects.

Collaborating Scientists:

Kevin Priester, Anthropologist, Rogue Institute for Ecology and Economics.

WASHINGTON

Researcher:

Bilyard, Gordon
Group Leader, Technical Planning and Analysis
Batelle North West Lab
PO Box 999
Richland WA 99352
(509) 372-4219

Topic:

Strategic planning on Ecosystem Management; facilitation and technical support to the DOE on ecological risk assessment. The NRDA trustees' council, the Hanford site.

Collaborating Scientists:

Joe Beck, Senior Scientist Batelle North West.

Researcher:

Brick, Phil
Asst. Professor, Political Science
Whitman College
Walla Walla WA 99362
(509) 527-5291
brick@whitman.edu

Topic:

Survey of attitudes about land use management issues (esp. related to timber and grazing). Also looking at attitudes towards the management of Hells Canyon. Mail survey, North East Oregon and Western Idaho. (Completion date; July 1994).

Other Topics:

What are the limits to and what are the processes needed for concensus decision making?

Researcher:

Carroll, Matt
Asst. Professor, Natural Resource Sciences.
Washington State University
Pullman WA 99163-1041
(509) 335-3564

Topic:

Rural populations' transitions made in light of Ecosystem Management. Looking at loggers as an occupational group; their attachment to job from a symbolic interactionist perspective. Using qualitative interpretive methodologies, semi-structured questionnaires.

Other Topics:

Looking at questions of attachment to place in rural communities. A time series study looking at how displaced loggers adapt. Sociology of special forest products. Soft systems or collaborative learning; decision making processes at the watershed level.

Collaborating Scientists:

Thomas Love, Asst. Professor, Anthropology, Linfield College
Steve Daniels, Asst. Professor, Forest Resources. Oregon State University.
Keith Blatner, Economist, Washington State University

Researcher:

Clark, Roger
Program Manager,
People and Natural Resources
Pacific Northwest Research Station
Forestry Sciences Lab
4043 Roosevelt Way NE
Seattle WA 98105
(206) 553-7817
DG#: r.clark:r06fO5a

Topic:

Improving the understanding of. different values associated with people and forest lands; quality of life and lifestyle issues related to natural resources; natural resources and their uses, impacts and tradeoffs. Integrating this knowledge into management. Expanding recreation subsistence opportunities.

Other Topics:

Involving the public in policy and management. Improving public participation processes. Looking at the relationships between ownership / jurisdictions across boundaries. Improving resource allocation processes. Providing forums for people on controversial issues, where they can be discussed in a non-threatening environment. Sustaining communities by identifying effective means of transition. How can we clarify the effects of perceived and real conflicts in law, policy and directives? Visitor use surveys throughout the region. Help the public to use spatial information (GIS). An analysis of policies and mythologies in the Forest Service.

Researcher:

DiZargia, Gus
Senior Research Associate
Foundation for Research on Economics and the Environment.
4900 25th N.E., Suite 201
Seattle WA 98105
(206) 548-1776

Topic:

How the people and communities in the rural west can be harmonized with environmentally sustainable practices. Looking at the problems facing small towns as they become split in terms of residents: rural extraction based vs. non-traditional migrants. Using an institutional approach with a broad ecosystem, political, economic analysis.

Other Topics:

Begining a study of the Wise-Use movement.

Collaborating Scientists:

Phil Brick, Asst. Professor, Political Science Whitman College

Researcher:

Dunlap, Reilly
Professor, Sociology
Washington State University
Pullman WA 99163
(509) 335-3810

Topic:

Study of public perceptions of natural resources in Washington. Identified what people see as the key natural resource issues or problems in the state, using a mail questionnaire. (Completion date: 1990)

Researcher:

Elliott, Catherine
Project Manager,
Washington Forest Landscape Management Project
Washington Department of Natural Resources
PO Box 47001
Olympia WA 98504-7001
(206) 902-1000

Topic:

Looking at landscape management for wildlife and fish protection across multiple land ownerships. Determine if there are ways to integrate forest management for fish and wildlife while reducing land owner costs and/or management uncertainty. Will it save owners money?

Collaborating Scientists:

Margaret Shannon, Director of the Institute for Resources in Society, University of Washington.

Researcher:

Hansis, Richard
Asst. Professor, Anthropology
Washington State University, Vancouver.
(206) 737-2010
hansis@vancouver.wsu.edu

Topic:

The human dimensions of Ecosystem Management. Part of an integrated resource analysis on the Gifford Pinchot NF, Mount Adams District. Input on public use and values, especially related to the desired future condition of the resource. Using interviews in field, mailings, open ended questionnaire, focus groups. (Completion date: June 1994 and ongoing)

Other Topics:

How agency personnel understand Ecosystem Management compared with how the public does.

Researcher:

Hunn, Eugene
Professor, Anthropology
University of Washington
Seattle 98195
(206) 543-6825
hunn@u.washington.edu

Topic:

Studied, since 1976, the traditional knowledge of plants, animals and places by Native Americans in Central Washington. Looked at traditional resource management practices as well as their contemporary interests in resource management as tribes.

Researcher:

Johnson, Kirk
Policy Analyst,
Northwest Policy Center,
Graduate School of Public Affairs
University of Washington
Seattle WA 98195
(206) 543-7900
kirkjohn@u.washington.edu

Topic:

Working with a working group that is looking at incentives for encouraging stewardship in the management of private forest lands.

Other Topics:

Development of a self-assessment workbook for rural communities to use in thinking about what sustainability means for them.

Collaborating Scientists:

David Harrison, Chair, Northwest Policy Chapter, University of Washington.
Paul Sommers, Executive Director, Northwest Policy Chapter, University of Washington.

Researcher:

Lee, Robert
Professor, Forest Resources
University of Washington
Seattle WA 98195
(206) 685-0879

Topic:

Looking at the way in which people develop cognitive models of forests' structure and function. If we no how people structure the forest in their minds we'll know something about how to manage it. Anthropological methods and modeling the cognitive structure. (Completion Date: Spring, 1994)

Other Topics:

Looking at how people reason and problem solve In relation to ecosystems. Learning how to insert people into the study of ecosystems. Looking at the ideological and

religious aspects of Ecosystem Management; the way centralized social elites control other people by using ecosystems to make people behave in a preferred manor.

Collaborating Scientists:

Marc Miller, Anthropologist, School of Marine Affairs, University of Washington.

Researcher:

McCloskey, David
Asst. Professor, Sociology
Co-director, Ecological Studies program
Director, Cascadia Institute.
Seattle University
Seattle WA 98122
(206) 296-5386

Topic:

Mapping of eco-regions of the Pacific North West based on watersheds; an ecoregional mapping strategy for the Cascadia bio-region. Identification of 75 sub-regions based on physiography, tectonics, climate, hydrology, vegetation, wildlife. native peoples, western settlement patterns, land use and jurisdictions. Forms a framework for natural resource management and socio-political organization.

Other Topics:

Working with local groups to define what watershed restoration means in theory and practice and how to organize for that. Developing a socio-cultural frame of reference for watershed restoration. Getting people to identify with their watershed. Articulating what ecosystem restoration means on a landscape and eco-regional scale. Working with communities on linking ecological and community goals to achieve sustainability.

Researcher:

Meidinger, Errol
Visiting Scholar,
Institute for Environmental Studies,
FM12
University of Washington
Seattle WA 98195
(206) 543-1812
emeid@u.washington.edu

Topic:

A study of the role of scientists in the development of Ecosystem Management policy. What roles did scientists play? How and through what channels did they exercise controls. Qualitative field research methods. (Completion Date: Sept. 1994)]

Other Topics:

Legal issues in Ecosystem Management. What legal issues are likely to arise in the effort to create Ecosystem Management institutions. Field and legal research methods.

Collaborating Scientists:

Bill Rodgers, Professor of Law, University of Washington.

Researcher:

Mejer, Jan
Director of Environmental Studies,
Dept. of Sociology
Whitman College
Walla Walla WA 99362
(509) 527-5855
mejerjh@whitman.edu

Topic:

The controversy over the production of geothermal energy in Puna, Hawai. Looking at conflicts between culturally different groups. Definitions of safety, hazard perception and cultural change. Surveys of ethnic perceptions, content analysis of newspaper articles, observation of public meetings and demographic patterns / census data. (Completion date: Spring, 1994)

Researcher:

Shannon, Margaret
Director of the Institute for Resources in Society
University of Washington
Seattle WA 98195
(206) 543-5577
mshannon@u.washington.edu

Topic:

The roles of science and advocacy in natural resource policy processes. The history, development and role of scientists in the development of Ecosystem Management policy. In-depth interviews, and assessment of literature.

Other Topics:

Social assessment for BLM resource management, plans in Western Washington and Oregon. Institutional strategies for adaptive management contexts. Analysis of civic science and institutional strategies for bioregional landscape management. Analysis of policies and mythologies of the USFS -viewpoints of employees about the mission of the agency, particularly concerning Ecosystem Management. Developing governance capacities for Adaptive Management. Development of an institutional research agenda. Cross jurisdictional policy for special forest products.

Collaborating Scientists:

Errol Meidinger, University of Washington.
Robert Lee, Professor, Forest Resources, University of Washington
Rodger Clark, Program Manager People and Natural Resources, PNW Forest Experiment Station.
Hanna Cortner, University of Arizona.

Researcher:

Steel, Brent
Asst. Professor, Dept. of Political Science.
Washington State University, Vancouver
Vancouver WA.
(206) 737-2025
steel@vancouver.wsu.edu

Topic:

Public preferences towards environmental and ecosystem management. Looking at value changes and their impact on public preferences and urban and rural differences in

attitudes and preferences. Surveys, interviews and content analysis of comments received in planning processes (NEPA, etc.).

Other Topics:

Public acceptability of adaptive management practices. Ecosystem related topics in rangeland management.

Collaborating Scientists:

Peter List, Asst. Professor, Philosophy, Oregon State University.
Cortland Smith, Professor of Anthropology, Oregon State University.
Sheila Cordray, Sociologist, Oregon State University

Researcher:

Winter, Deborah
Professor, Psychology
Whitman College
Walla Walla WA 99362
(503) 558 3724
winter@whitman.edu

Topic:

The psychology of ecological problems. Analyzing the major theories in psychology to explain how we develop those problems and how we might begin to solve them. Reviewing the major theories and analyzing environmental problems within those theories. (completion date: Dec. 1994).

Appendix A: The survey instrument and contact sheet.

Telephone Survey of Social Scientists Conducting Research Related to Ecosystem Management

Hello, my name is _____, I'm with the University of Idaho, College of Forestry. As you may be aware the East Side Ecosystem Management Team is currently assessing conditions within the Colombia river basin. In connection with this, we are conducting a survey of social scientists performing research related to Ecosystem Management. Our main focus is to determine the range of socially oriented topics currently being researched.

We would appreciate your help over the next few minutes in answering several questions related to your research efforts.

1. Confirm spelling of the person's name and position.
(Also get: Mailing address, E-Mail address)

2. Are you currently or have you recently conducted social science research or projects related to the concept of Ecosystem Management or are you planning such an effort for the near future?

3. What is the topic (or topics) of your research effort(s)? [What key questions does your research address?] [What methodologies are being utilized?]

3a. What are your projected start and completion dates for this research?

3b. What other Social Scientists are you collaborating with in this effort?
(NAMES, POSITIONS, INSTITUTIONS)

4. Please identify any [additional] research questions or issues that you feel need to be addressed, related to the human aspects of Ecosystem Management.

5. In your opinion how could the social sciences contribute to Ecosystem Management?

6. Can you identify any colleagues (in either the public or private sector) that are also doing research related to Ecosystem Management?

6a. Would you please give me their names, positions, the institutions for which they work and the topic(s) of their research? (telephone # if possible)

Thank you very much for taking the time to answer these questions for us.

Survey Contact Sheet #____

1. Respondent.

Name	:	Addre	:
Position	:		
Instit.	:	Tel.	:
		E-Mail	:

2. **Ecosystem Mgt. Research?**

YES NO

3. **Research topics, questions & methods. [continued on back]**

3b.

Topic 1	:	Strt/com P.

3b. **Collaborating Scientists:**

Name	:	Name	:	Name	:
Positio	:	Positio	:	Positio	:
Instit.	:	Instit.	:	Instit.	:
Tel	:	Tel	:	Tel	:

4. **Other research questions. [continued on back]**

Res. Q 1	:	Res. Q 2	:

5. **Contributions of Social Sciences to Ecosystem Management.**

Contribution 1	:
Contribution 2	:
Contribution 3	:

6**. Colleages doing social science research on Ecosystem Management. [continued on back]**

Name	:	Name	:	Name	:
Position	:	Positio	:	Position	:
Instit.	:	Instit.	:	Instit.	:
Tel	:	Tel	:	Tel	:
Topic	:	Topic	:	Topic	:

3. [continued]

Topic 2	:	Strt/com P.

4. [continued]

Res. Q 3	:	Res. Q 4	:

6. [continued] Colleages doing social science research on Ecosystem Management.

Name	:	Name	:	Name	:
Position	:	Position	:	Position	:
Instit.	:	Instit.	:	Instit.	:
Tel	:	Tel	:	Tel	:
Topic	:	Topic	:	Topic	:

ADDITIONAL COMMENTS: