ERIN FLEMING Centers for Water and Wildland Resources University of California Davis, California

Compilation of Workshops Contributing to Sierra Nevada Assessments

Sierra Nevada Ecosystem Project: Final report to Congress, vol. III, Assessments and scientific basis for management options. Davis: University of California, Centers for Water and Wildland Resources, 1996.

Acting on the charge from Congress, the Sierra Nevada Ecosystem Project Science Team assessed the status of various Sierra Nevada ecosystem components. Assessments represent the best available information. Experts throughout the Sierra Nevada contributed to the collection of information by giving of their time and knowledge. Accordingly workshops were held throughout the Sierra Nevada to gather this expert knowledge.

This chapter is a compilation of participant lists, agendas, and descriptions of workshops. This is not an exhaustive list of the working groups and individuals who participated, however, we include this information as acknowledgment of the valuable contributions of those whose expertise added so much to many of the assessments. Additional acknowledgments are found in chapters of volumes II and III.

Late Successional/Old Growth Mapping March, 1994 Sacramento, CA

Amedee Brickey	Sierra National Forest, Pineridge Ranger District
Ramiro Rojas	Sierra National Forest, Pineridge Ranger District
Artie Colson	Sequoia National Forest, Cannell Meadow Ranger District
Ed Armenta	Sequoia National Forest, Cannell Meadow Ranger District
Frank Brassell	Sequoia National Forest, Cannell Meadow Ranger District
Al Vazquez	Plumas National Forest, Milford/Laufman Ranger District
Dominic Cesmat	Plumas National Forest, Milford/Laufman Ranger District
Genny Wilson	Plumas National Forest, Milford/Laufman Ranger District
Beth Corbin	Lassen National Forest
Mike Jablonski	Lassen National Forest
Russ Volke	Lassen National Forest
Boyd Turner	Lassen National Forest
Rod Vineyard	Lassen National Forest
Judy Welles	Lassen National Forest
Chris Click	Modoc National Forest, Big Valley Ranger District
Julie Rechtin	Modoc National Forest, Big Valley Ranger District
Dale Evans	Modoc National Forest, Warner Mountain Ranger District
Mike Brown	Stanislaus National Forest
Ginnelle O'Connor	Plumas National Forest, Oroville/Laporte Ranger District
Neil Sugihara	Stanislaus National Forest
Mike Mateyka	Plumas National Forest, Oroville/Laporte Ranger District
George Stundinski	Modoc National Forest, Devil's Garden Ranger District
John Bradford	Tahoe National Forest
Kathy Van Zuuk	Tahoe National Forest
Pat Farrell	Tahoe National Forest
Stephanie Sager	Tahoe National Forest
Ann Carlson	Tahoe National Forest
Karen Hayden	Tahoe National Forest
Bob Cary	Tahoe National Forest
Jerry Kent	Tahoe National Forest, Truckee Ranger District
Joe Sherlock	Stanislaus National Forest, Mi-Wok Ranger
Liz Fisher	Modoc National Forest, Doublehead Ranger District
Dave Sinclear	Modoc National Forest, Doublehead Ranger District
Pat Stygar	Sierra National Forest, Minarets Ranger District
Dave Smith	Sierra National Forest, Minarets Ranger District
Ron Keil	Inyo National Forest
Brian Miller	Inyo National Forest
Dale Johnson	Inyo National Forest
Kathy Noland	Inyo National Forest
Terry Hicks	Inyo National Forest
Sydney Smith	Modoc National Forest
Chuck Bredesen	Sierra National Forest, Mariposa Ranger District
Bea Olson	Sierra National Forest, Mariposa Ranger District
Teri Drivas	Sierra National Forest, Mariposa Ranger District
John Sweetman	Eldorado National Forest, Amador Ranger District
Chuck Loffland	Eldorado National Forest, Amador Ranger District
Don Errington	Eldorado National
Marie Kennedy	Eldorado National Forest
Linda Tatum	Eldorado National Forest
Bob Carroll	Eldorado National Forest

Charis Genter	Eldorado National Forest		
Dennis Haas	Eldorado National Forest		
Jo Ann Fites	Eldorado National Forest		
Erich Fischer	Eldorado National Forest, Placerville Ranger District		
	•		
Joe Oden	Lake Tahoe Basin		
Lori Allessio	Lake Tahoe Basin		
Jim Schmidt	Stanislaus National Forest		
Andy Aldrich	Stanislaus National Forest, Summit Ranger District		
Bart Bloom	Stanislaus National Forest, Summit Ranger District		
Dan Leedy	Stanislaus National Forest, Caleveras Ranger District		
Larry Ford	Tahoe National Forest, Sierraville Ranger District		
Steve Weaver	Tahoe National Forest, Sierraville Ranger District		
Mike Newman	Tahoe National Forest, Foresthill Ranger District		
Slim Stout	Tahoe National Forest, Foresthill Ranger District		
Andy Hosford	Sierra National Forest, Kings River Ranger District		
Dick Castaldini	Plumas National Forest		
Dennis Clemens	Plumas National Forest, Quincy/Greenville Ranger District		
Erik Ostly	Sequoia National Forest		
Gary Rotta	Plumas National Forest, Quincy/Greenville Ranger District		
Mike Martini	Plumas National Forest, Beckwourth/Mohawk Ranger District		
Ron O'Hanlon	Plumas National Forest, Oroville/Laporte Ranger District		
Tom,Higley	Inyo National Forest, Mono Lake Ranger District		
Richard Perloff	Inyo National Forest, Mammoth Ranger District		
Rich Coakley	Lassen National		
Lew Jump	Sequoia National Forest		
Steve Anderson	Sequoia National Forest		
Paul Miller	Sequoia National Forest, Tule River Ranger District		
Dan,Marlatt	Bureau of Land Management		
Peggy Cranston	Bureau of Land Management		
Jim Barry	California State Parks and Recreation, Natural Heritage		
Elizabeth Bergstrom	Toiyabe National Forest, Carson Ranger District		
Bob Jennings	Toiyabe National Forest, Carson Ranger District		
Roland Shaw	Toiyabe National Forest, Carson Ranger District		
Gerald Grevstad	Toiyabe National Forest		
Tina Mark	Toiyabe National Forest		
Dan Duriscoe	Sequoia and Kings Canyon National Parks		
Tom Warner	Sequoia and Kings Canyon National Parks		
Sylvia Haultain	Sequoia and Kings Canyon National Parks, National Biological Survey		
-	Sequoia and Kings Canyon National Parks, National Biological Survey		
Nate Stephenson	Yosemite National Park		
Peggy Moore			
Jan van Wagtendonk	National Biological Survey, Yosemite Field Station		
Wayne, Harrison	Califonia State Parks and Recreation		
Jerry Westfall	Tahoe National Forest		
Lisa Acree	Yosemite National Park		
Steve Underwood	Tahoe National Forest		

Staff and Science Team Support:

Jo Ann Fites, Mary Cunha, Doug Leisz, Dave Graber, Norm Johnson, Debbie Elliott-Fisk, John Sessions, Karen Gabriel, Karen Beardsley, Joan Brenchley Jackson, John Gabriel, Russ Jones, Kay Gibbs, Minghua Zhang, Steve Greco, Chris Riper, Dana Murphy, Erin Fleming

The workshop was a step in the Late Successional/Old Growth assessment by Jerry Franklin.

Genetic Workshop Participants and Report Reviewers

Fall, 1994

Institute of Forest Genetics, Placerville

Workshop Participants

Diane Elam, Natural Heritage Division Deborah L. Elliott-Fisk, Natural Reserve System, University of California Gary M. Fellers, National Biological Service George Ferrell, USDA Forest Service, Silvicultural Laboratory Matteo Garbelotto, Department of Envionmental Science, Policy and Management Graham A.E. Gall, Department of Animal Science Jay H. Kitzmiller, USDA Forest Service, Chico Genetic Resource Center Eric E. Knapp, Department of Agronomy and Range Science Bohun B. Kinloch, Institute of Forest Genetics, USDA Forest Service F. Thomas Ledig, Institute of Forest Genetics, USDA Forest Service William Z. Lidicker, Museum of Vertebrate Zoology, University of California, Berkeley Marjorie Matocq, Department of Biology, University of California, Los Angeles Constance I. Millar, Institute of Forest Genetics, USDA Forest Service Chris Nice, Section of Evolution and Ecology, University of California, Davis James L. Patton, Museum of Vertebrate Zoology, University of California, Berkeley Calvin O. Qualset, Genetic Resources Conservation Program Kevin Rice, Department of Agronomy and Range Science, University of California, Davis Larry Riggs, Biosphere Genetics, Inc. Deborah L. Rogers, Institute of Forest Genetics, USDA Forest Service H. Bradley Shaffer, Section of Evolution and Ecology, University of California, Davis Arthur M. Shapiro, Section of Evolution and Ecology, University of California, Davis Thomas B. Smith, Department of Biology, San Francisco State University David B. Wake, Museum of Vertebrate Zoology, University of California, Berkeley Robert D. Westfall, Institute of Forest Genetics, USDA Forest Service Randy Zebell, Department of Biology, San Francisco State University

Report Reviews

Don Bluth, Department of Biology, University of California, Los Angeles

David Bradford, U.S. Environmental Protection Agency

Diane Elam, Natural Heritage Division

Norm Ellstrand, Department of Botany and Plant Sciences, University of California, Riverside

Gary Fellers, National Biological Service, U.S.D.I, Pt. Reyes National Seashore John Helms, Department of ESPM, University of California, Berkeley

Ned Johnson, Museum of Vertebrate Zoology, University of California, Berkeley Eric Knapp, Department of Agronomy and Range, University of California, Davis Bohun Kinloch, Institute of Forest Genetics, USDA Forest Service, PSW Research Station

Bill Lasley, Institute of Toxicology and Environmental Health, University of California, Davis

Bill Libby

Jennifer Neilsen, Hopkins Marine Station, Stanford University

James Patton, Museum of Vertebrate Zoology, University of California, Berkeley Kevin Rice, Department of Agronomy and Range Science, University of California, Davis Arthur M. Shapiro, Section of Evolution and Ecology, University of California, Davis David Wake, Museum of Vertebrate Zoology, University of California, Berkeley Philip Ward, Entomology Department, University of California, Davis John Hopkins, Range Watch

"History of Sierra Nevada Ecosystems" Fall, 1994 Institute of Forest Genetics, Placerville

Workshop Planners and Staff

Deborah Elliot Fisk, Natural Reserve System Connie Millar, Pacific Southwest Research Station, USDA Forest Service Wally Woolfenden, Inyo National Forest, Mono Lake Ranger District Deborah Rogers, Pacific Southwest Research Station, USDA Forest Service Erin Fleming, SNEP Center Molly Pohl, Dept. of Geography, Arizona State University

Workshop Participants

David Adam, U.S. Geological Survey, Branch of Paleontology and Stratigraphy Scott Anderson, Environmental Sciences Project Andy Bach, Department of Geography, Arizona State University Patrick Bartlein, Department of Geography, University of Oregon Bob Bettinger, Department of Anthropology, University of California, Davis Bud Burke, Geology Department, Humbolt State University Roger Byrne, Geography Department, University of California, Berkeley Dan, Cayan, Climate Research Division, Scripps Institution of Oceanography Malcolm Clark, U.S. Geological Survey Doug Clark, Department of Geological Sciences, University of Washington Ken Cole, National Biological Survey, Department of Forest Resources, University of Minnesota Owen Davis, Department of Geosciences, University of Arizona Alan, Gillespie, Department of GeologicalSciences, University of Washington Lisa Graumlich, Institute for the Study of Planet Earth, University of Arizona Malcolm Hughes, Tree Ring Laboratory, University of Arizona Tom Jackson, Pacific Legacy Steven Jennings, Department of Geography, Texas A&M University Susan Lindstrom Michael Moratto, INFOTEC George I. Smith, U.S. Geological Survey Nate Stephenson, Sequoia-Kings Canyon National Parks, National Biological Survey Scott Stine, California State University, Hayward Tom Swetnam, Laboratory of Tree Ring Research, University of Arizona Jim West, Bureau of Reclamation Peter Wigand, Desert Research Institute, University of Nevada

SNEP Participants (Science Team and Affiliates)

Don Erman, SNEP Team Leader and Director, Centers for Water and Wildlands Resources, UC Davis Mike Diggles, US Geological Survey, Western Mineral Resources Don Fullmer, USDA Forest Service, Sequoia Natinal Forest Dave Graber, National Biological Survey, Sequoia and Kings Canyon National Parks Rick Kattelmann, Sierra Nevada Aquatic Research Laboratory, University of California Bill Kinney David Parsons, Aldo Leopold Wilderness Research Institute Carl Skinner, Pacific Southwest Research Station, USDA Forest Service Rowan Rowntree, Pacific Southwest Research Station, USDA Forest Service Joy Schaber, SNEP Center, University of California, Davis Phil Weatherspoon, Pacific Southwest Research Station, USDA Forest Service Bob Westfall, Pacific Southwest Research Station, USDA Forest Service

Reconstructing an 1800's Sierran Landscape December 10 and 11, 1994 Sewell Hall, Room S 110, Sierra College

Saturday, December 10, 1994

8:00	IntroductionsLogisticsObjectives of this Workshop Within the SNEP Context
8:30	First Session:Human Populations and Impacts, 1750–1840 (Stine)
10:00	Break
10:15	First Session Continued
11:30	Lunch
12:30	Second Session: • Climate, Vegetation, and Hydrology, 1750–1840 (Anderson/Morotto)
1:45	Break
2:00	Second Session Continued

- 3:30 Break
 4:00 Third Session
 Spatial Patterns of Sierran Landscape Change, 1826–1900 (Beesley)
- 5:15 Break
- 5:30 Third Session Continued

Sunday, December 11, 1994

- 8:00 Review and Consolidation
- 9:30 Research Priorities
- 10:00 Break
- 10:15 Discuss process of writing summary of plans and deadlines.
- 11:30 Lunch and Workshop Conclusion (Conclusion of Workshop expected at 2:00 pm)

Sewell Hall, Room S 110, Sierra College

Attendance List:

- * Barbara Balen, USDA Forest Service, Stanislaus National, Sonora, CA
- * Bern Kreissman, 926 Plum Lane, Davis, CA
- * Bill Laudenslayer, Forestry Sciences Lab, Fresno, CA
- * Bill Tweed, Sequoia and Kings Canyon National Parks, Three Rivers, CA
- * Bob Rogers, US Forest Service, Porterville, CA
- * Bruce Perieni, Sacramento, CA
- * C. Kristina Roper, INFOTEC, Fresno
- * Carl Skinner, Pacific Southwest Research Station, Redding, CA
- * Carmel Barry-Meisenbach, Tahoe National Forest, Nevada City, CA
- * Chiru Chang, School of Environment, Duke University
- * Chris Baisan, Laboratory of Tree-Ring Research, University of Arizona, Tucson, AZ
- * Dan Cayan, Climate Research Division, Scripps Institute of Oceanography, La Jolla, CA
- * David Beesley, Sierra College, Rocklin, CA
- * David Comstock, Grass Valley, CA
- * Denise McLemore, USDA Forest Service, Eldorado National Forest, Placerville, CA
- * Doug Miller, State Lands Commission, Sacramento, CA
- * Edwyn Tyson, Nevada City, CA
- * Frances Williams, Sacramento, CA
- * Fred Velasquez, Valley Springs, CA
- * Gail, Firebaugh, Stanislaus National Forest, Sonora, CA
- * George, Gruell, Carson City, NV
- * Hank Meals, Tahoe National Forest, Downieville Ranger District, Camptonville, CA
- * Harold Basey, Groveland, CA
- * Jan van Wagtendonk, National Biological Survey, Yosemite Field Station, El Portal, CA
- * Jane LaBoa , Auburn, CA
- * Jeff Mount, Department of Geology, University of California, Davis, CA * Jerry Miller, Quaternary Sciences Center, Desert Research Institute, Reno, NV
- * Jim Barry, CA State Parks and Recreation, Sacramento, CA
- * Jim Johnston, Lassen National Forest, Susanville, CA
- * Jim West, Bureau of Reclamation, Sacramento, CA
- * Joe Medeiros, Department of Biological Sciences, Sierra CollegeRocklin, CA
- * John Holson, Pacific Legacy Co., Albany, CA
- * Kat Anderson, University of Kansas, St. Lawrence, KS
- * Kevin McKelvey, Redwood Sciences Lab, Arcata, CA
- * Liana Smith, Nevada City, CA
- * Linda Lux, USDA Forest Service, San Francisco, CA
- * Michael Moratto, INFOTEC Research Inc., Fresno, CA
- * Michelle Stevens, Davis, CA
- * Norm Wilson, Auburn, CA
- * Owen Davis, Department of Geosciences, University of Arizona, Tucson, AZ
- * Richard Garcia, Redding, CA
- * Richard Minnich, Earth Sciences Department, University of California, Riverside, CA
- * Robert, Jackson, Woodland, CA
- * Roger Poff, Nevada City, CA
- * Ron Goode, Clovis, CA
- * Ross Trotter, Camptonville, CA
- * Scott Kruse, Fresno, CA
- * Scott Stephens, University of California, Berkeley, CA

* Scott Stine, California State University, Hayward, CA
* Susan Lindstrom, Trukee, CA
*Dana Supernowicz, Eldorado National Forest, Placerville, CA

List of Invited Guests and Contributors

Bob Cermack, Oroville, CA Craig Bates, Yosemite National Park, CA David Perry David Dulitz, Mountain Home State Forest, Springville, CA Dennis Martinez, Eagle Point, OR Dick Markley, USDA Forest Service, Nevada City, CA Douglas Strong, San Diego Frank Fisher CA Dept Fish and Game, Redbluff, CA Fred Wagner, Utah State University, College of Natural Resources, Logan, UT Glenn Ferris, Davis, CA Hector Franco, Visalia, CA Helen McCarthy, Davis, CA Jared Verner, Forestry Sciences Lab, Fresno, CA Jay Johnson, Yosemite, CA Jim Parsons, University of California, Berkeley, CA John Foster, California State Parks and Recreation, Sacramento, CA Kent Lightfoot, Anthropology Department, University of California, Berkeley, CA Kevin Starr. State Library. Sacramento, CA Lary Dilsaver, Department of Geography, University of South Alabama, Mobile, AL Laurie Planis, Fresno, CA Linda Reynolds Lynn Hunziker, ESPM, University of California, Berkeley, CA Marty Rose, Desert Research Inst., Reno, NV Michael Claytor, Department of Anthropology, Sierra College, Rocklin, CA Michael Singer, LAWR, University of California, Davis, CA Michael Smith, Oakland, CA Nate Stephenson, Sequoia and Kings Canyon National Parks, Three Rivers, CA Paul Starrs, University of Nevada, Reno, NV Peter Lindert, Agricultural History, University of California, Davis, CA Phil McDonald, Redding Silvicultural Lab, Pacific Southwest Research, Redding, CA Philip Wilkie, Anthropology Department, University of California, Riverside, CA Rick Fielitz, Sacramento, CA Roger Byrne, Department of Geography, University of California, Berkeley, CA Scott Anderson, Center for Environmental Science and Ed., Northern Arizona University Tom Jackson, Pacific Legacy, Aptos, CA Tom Swetnam, Lab of Tree Ring Research, University of Arizona, Tucson, AZ Tom Vale, Dept of Geography, University of Wisconsin, Madison, WI Wally Woolfenden, USDA Forest Service, Inyo National Forest, Lee Vining, CA

Insects & Pathogens And Their Influence On Sierra Nevada Forests January 19-20, 1994 3201 Hart Hall, U.C. Davis

Sierra Nevada Ecosystem Project Objectives:

- 1. Assess existing condition of Sierra Nevada ecosystems.
- 2. Describe historical (paleo- and recent) conditions of Sierra Nevada ecosystems.
- 3. Assess status and trends of Sierra Nevada ecosystems under current management.
- 4. Develop options for sustainable management of Sierra Nevada ecosystems.
- 5. Evaluate implications for ecological conditions under each option.

Insects and Pathogens Workshop Objectives:

- 1) Summarize available information on the historic, current, and predicted impacts of insects and pathogens on forest structure and function by forest type. Where possible, impact assessments will be made beyond the forest system into other vegetation types.
- 2) Develop conceptual models which relate drought, fire, air pollution, and stand composition and structure to insect and pathogen impacts. Where sufficient data exists, quantitative linkages will be made to the policy analysis modeling effort.
- 3) Identify and prioritize essential research needs for the next decade.
- 4) Predict future impacts of insects and pathogens under various management scenarios.

Invitation list for SNEP Insect and Pathogens Workshop Jan 19th and 20th

Fields Cobb, Don Dahlsten, John Dale, Don Fullmer, Gregg DeNitto, George Ferrell, Connie Gill, Jane LaBoa, Bro Kinloch, John Kliejunas, Phil McDonald, Don Owen, Bill Otrosina, Dick Parmeter, John Pronos, Bruce Roettgering, Dave Schultz, Bob Scharpf, Pat Shea, Carl Skinner, Dick Smith, Mark Smith, Sheri Smith, Phil Weatherspoon, John Wenz, Dave Wood, Mike Yost

And SNEP Science Team Members, Special Consultants, and Associates

Insects & Pathogens And Their Influence On Sierra Nevada Forests January 19-20, 1994

THURSDAY JANUARY 19, 1994

9:30 Coffee/Participant Arrival

 10:00 Introduction to Workshop Welcome (George/Joan), Logistics (Joan) Role facilitator (Connie) Introduction of participants (Connie) Name, affiliation, expertise Background on SNEP (Joan) Goals/Scope of Workshop (George) Role of participants in assessment (George)

10:30 Identify Key Insects and Pathogens and Develop Conceptual Models to Describe Effects on Sierra Nevada Forests

- What linkages are there with other environmental factors such as droughts, fire, logging, air pollution, etc.?
- What are the resulting temporal and spatial patterns?
- What are the effects on vegetative composition and structure?
- What effective mitigation treatments are available?
- What are the major information gaps? Are there problems with data quality?
- What are important research needs?

12:00 LUNCH

1:00 Develop Conceptual Models (cont'd)+

3:00 Assess Risk of Invasion by Exotic Insects and Pathogens

- What are the important factors affecting risk?
- Increased trade with Mexico, Chile, Canada (NAFTA), or Siberia, New Zealand (GATTI)?
- Asian Gypsy Moth, European Pine Shoot Moth?
- Increased migration from coastal cities to Sierra Nevada foothills?
- Pitch Canker?
- What mitigation treatments are available?
- What are the major information gaps, research needs?
- 5:00 Adjourn

FRIDAY JANUARY 20

9:00 Coffee/Participant Arrival

9:30 Attempt to Predict Future Under Various Management Scenarios

- What will be trends in ecosystem effects if present practices, influences, continue?
- What will be trends under "best practices" mitigation?
- What will be trends if widespread treatments to reduce fire hazard (prescribed burning, understory thinning) are applied?
- 12:00 Lunch
- 1:00 Continue discussions if necessary or adjourn

Mediated Settlement Agreement/Giant Sequoia Workshop

February 3, 1995 Porterville, CA

Mike Ahrens Jane Baxter Carla Cloer Jim Craine Jim Crates Glen Duysen Larry Duysen Kent Duysen Patrick Emmert Joe Fontaine Bob Jasperson Jeff Lilley Bret Matzke Leonard Manuel (JR) Frank Price John Rasmussen Brian Rueger Ron Schiller Dan Ray West Dwight Willard Steve Worthley Jip Woudstra Judith Ewing

Sequoia National Forest: Julie Allen Mary Bradley Mary Chislock-Bethke Don Fullmer Sandra Key Bob Rogers Bruce Waldron

SNEP: Debbie Elliott-Fisk Rick Kattelmann Nate Stephenson John Aubert Dana Murphy Joy Schaber Scott Stephens California Association of 4-Wheel Drive Clubs Range Watch Sierra Club California Forestry Association Retired United States Forest Service Sierra Forest Products Sierra Forest Products Sierra Forest Products Sequoia Forest Industries Sierra Club Save-the-Redwoods League Hume Lake Christian Camps California Trout Tule River Indian Reservation

Sierra Club Forester for Tule River Indian Reservation High Desert Multiple Use Coalition Tule River Conservancy Tule River Conservancy

Sequoia Forest Industries Tule River Indian Reservation Montecito-Sequoia Lodge

Mediated Settlement Agreement/Giant Sequoia Public Workshop February 4, 1995

Porterville, CA

Gary Rogers Claude Rouch Burl Wood Jim Crates David Dulitz Larry Otter Dick Phillips Gary Hohnstein Kathleen & Larry Duysen Mike Ahrens Janet Fanning Malinee Crapsey Annie Esperanza Barbara Brydolf Byron Miksch Larry Bancroft Ruth Dyer **Rick Elstow** Bill Anderson Skip Primo Dave Johnston Dave Pengilly Jeff Gletne Gay & Jim VerSteeg Jose Medina Jim Warner Jim Maples Ed Wristen Lindell Yostimura Charles Morgan Kent Duysen Glen Duysen Lloyd James Burger Gerald Davis **Bob Styles** Doug Hanson Linda & Dan Utt Phil Sexton Loren Ross Gary Aoest

Dinuba, CA Springville, CA Lindsay, CA Porterville, CA Springville, CA Springville, CA Springville, CA Bakersfield, CA Terra Bella, CA Hemet, CA Three Rivers, CA Three Rivers, CA Three Rivers, CA Camp Nelson, CA Three Rivers, CA Three Rivers, CA Lafayette, CA Porterville, CA Camp Nelson, CA Kingsburg, CA Porterville, CA Terra Bella, CA Porterville, CA Springville, CA Kings Canyon NP, CA Tulare Co. 5th Dist. Supervisor Visalia, CA Visalia, CA Springville, CA Porterville, CA Porterville, CA California Hot Springs, CA Porterville Recorder Bakersfield, CA Porterville, CA Porterville, CA Camp Nelson, CA Foresthill, CA Lake Isabella. CA Camp Nelson, CA

SNEP Workshop with Coalition for Unified Recreation in the Eastern Sierra and the Eastern Public February 8 and 9, 1995 Bishop, California

February 8, 1995 Pre-workshop session to discuss/display SNEP GIS data (The focus of this session is on SNEP's geographic database and few SNEP sceintists will be in attendance.)

6:30-6:45	Brief introduction to SNEP	
6:45-9:00	SNEP data display and general discussion	
February 9, 1995		
10:00-10:30	Introduction to SNEP and the workshop Jonathan Kusel and others	
10-30-11:00	Recreation and Development Tim Duane	
11:00-11:30	Community Well-being Jonathan Kusel and Sam Doak	
11:30-12:00	Riparian Areas Rick Kattleman	
12:00-12:45	Lunch	
12:45-1:15	Rangeland Assessment John Menke	
1:15-1:45	Mammoth-June/Significant Areas Connie Millar	
1:45-2:00	Break	
2:00-4:00	Open discussion between SNEP scientists and workshop participants	
4:00-4:15	Closing comments	
4:15-4:30	Workshop evaluations	

Sierra Nevada Ecosystem Project

Public Meeting With Steering Committee And Science Team Freeborn Hall, U.C. Davis February 21, 1995

8:00 - 8:15

I. AGENDA, GOALS, AND INTRODUCTIONS - Jim Space, Chair, SNEP Steering Committee.

II. REPORTS TO THE PUBLIC - Moderated by Don Erman, SNEP ScienceTeam Leader.

8:15 A. Jerry Franklin - Late successional/old growth forests update.

8:40 B. John Sessions - Vegetation modeling of the Sierra Nevada.

PANEL SESSION I.

- 9:05 C. John Menke Grazing and rangeland assessments.
- 9:25 D. Rick Kattelmann Water resources, riparian and watershed conditions.
- 9:45 E. Peter Moyle Status and trends of fish, amphibians, and aquatic habitats.
- 10:05 DISCUSSION on topics by Menke, Kattelmann, Moyle.
- 10:25 BREAK

PANEL SESSION II.

- 10:45 F. Dave Graber Wildlife habitat relationships.
- 11:05 G. Bill Stewart Economic assessments.
- 11:25 H. Norm Johnson Policy scenarios.
- 11:45 DISCUSSION on topics by Graber, Stewart, Johnson.
- 12:05 LUNCH
- 1:30 ROUND ROBIN TABLE DISCUSSIONS
- 4:00 RECONVENE FOR DISCUSSION AND FEEDBACK SESSION
- 4:45 ADJOURN

SNEP Human Settlements Workshop April 6, 1995 Institute for Forest Genetics, Placerville

The workshop was called by the Coordinating Committee in order to promote better integration of human settlement issues into all SNEP assessments and the policy analysis efforts. Tim Duane chaired the meeting and it was attended by the following guests:

Stafford Lehr	California Department of Fish and Game
Daniel Hinz	California Department of Fish and Game
Bob Mapes	California Department of Fish and Game
Jim Smith	California Department of Forestry and Fire Protection
Greg Greenwood	California Department of Forestry and Fire Protection

SNEP Science Team and Special Consultant and Associate attendees included:

Tim Duane Dave Graber Mike Oliver Larry Costick Scott Martens Don Erman John Sessions Doug Leisz Rowan Rowntree Joan Brenchley-Jackson Joe McBride Jonathan Kusel Sam Doak.

SNEP Workshop with the Quincy Library Group and the Northern Sierra Public April 11, 1995 Quincy Library

April 11, 199	5	
	10:00 a.m 4:30 p.m., GIS demonstr data layers 4:30-6:00 p.m., at the Qui	
10:0010:15	Introduction to SNEP, workshop format, questions	Jonathan Kusel
10:1510:35	LS/OG	Jerry Franklin & Jo Ann Fites
10:3510:55	Fire	Joan Brenchley-Jackson, Jan van Wagtendonk & Berni Bahro
10:5511:10	Modeling	John Sessions
11:1011:50	Questions & Discussion: interplay of models and LS/OG polygons, etc.	Jerry Franklin, Joan Brenchley- Jackson, Jan van Wagtendonk, John Sessions & Berni Bahro
11:501:00	LUNCH	
1:001:20	Riparian Areas	Rick Kattelmann
1:201:40	Rangeland	John Menke
1:402:00	Questions & Discussions: interplay between riparian and range issues	Rick Kattelmann & John Menke
2:002:10	Break	
2:102:30	Introduction to Policy Scenarios	Norm Johnson & Bill Stewart
2:304:15	Open Discussion: development of policy scenarios and associated interdisciplinary dynamics	All SNEP members and participants
4:15	End main workshop	Jonathan Kusel
4:154:30	Break	
4:306:00	GIS data workshop	Sam Doak, Jonathan Kusel, Jerry Franklin, Jo Ann Fites & others

SNEP Fuels Strategies Workshop March 16-17, 1995. Cabernet Room, Silo Building, UC Davis

THURSDAY MARCH 16, 1995

- 8:30 Participant Arrival/Coffee
- 9:00 Introduction to Workshop Welcome (Phil Weatherspoon, Joan Brenchley-Jackson) Logistics (Joan Brenchley-Jackson) Introduction of Participants--name, affiliation, expertise (all) Background on SNEP (Joan Brenchley-Jackson) Workshop Objectives and Approach (Phil Weatherspoon)
- 9:30 Presentations (representing a cross-section of perspecti es and experiences related to fuels managemant strategies and decisionmaking; each time slot will allow 5 minutes for Q&As--time for more extensive discussion will be available following all the presentations)
- 11:55 Lunch
- 1:00 Presentations--continued
 - 1300 JoAnn Fites, USFS/University of Washington
 - 1320 Ray Hermit/JaneLaBoa, USFS/CASPO EIS Team
 - 1405 John Sessions, Oregon State University
- 2:25 General Discussion Focus will be on followup from presentations, sharing of additional relevant activities, and workshop objectives 1 and 2.
- 5:00 Adjourn

FRIDAY MARCH 17

- 8:00 Continue Discussion Incorporate all workshop objectives, as the group considers appropriate, with a focus on accomplishing objective 5.
- 12:00 Lunch
- 1:00 Continue Discussion
- 2:40 Wrapup Assessment of workshop; discussion of followup, next steps (if any)
- 3:00 Adjourn (or earlier if group agrees)

SNEP Fuels Strategies Workshop March 16-17, 1995. Cabernet Room, Silo Building, UC Davis

Participant list:

Steve Arney Bernie Bahro Gary Biehl, Joan Brenchley-Jackson Jim Carter Ken Castro Gary Cones Norm Cook Gary Fildes JoAnn Fites Don Fullmer Aaron Gelobter Connie Gill Greg Greenwood Ray Hermit Jerry Hurley Sue Husari **Russ** Jones Jane LaBoa Mike Landram Louise Larson Jeff Manly Kevin McKelvey Ed Murphy Christie Neill Jav Perkins John Sessions Carl Skinner Scott Stephens Phil Weatherspoon Joe Wood

Tahoe National Forest Eldorado National Forest Stanislaus National Forest University of California at Davis, SNEP VMP/California Department of Forestry Lassen Volcanic National Park **Stanislaus National Forest** California Department of Forestry Tahoe National Forest US Forest Service/University of Washington Sequoia National Forest Sequoia National Forest **PSW** Research Station California Department of Forestry CASPO EIS Team. US Forest Service **Plumas National Forest Region 5, US Forest Service SNEP** CASPO EIS Team. US Forest Service **R-5**, US Forest Service Sierra National Forest Sequoia-Kings Canyon National Park Pacific Southwest Research Station Sierra Pacific Industries **Eldorado National Forest** Klamath National Forest Oregon State University, SNEP Pacific Southwest Research Station **SNEP/Pacific Southwest Research Station** Pacific Southwest Research Station Plumas National Forest

Community Capacity Workshops Spring, 1995

Community capacity was assessed for the community aggregations based on local expert knowledge. A series of local workshops were held in 19 different locations across the Sierra. All but one workshop focused on aggregations falling primarily within a single county. This workshop covered aggregations in the Greater Lake Tahoe Basin, which included aggregations in six separate counties.

The number of participants in each workshop ranged from three to 18, depending on the area and the number of aggregations to be addressed. To ensure a diversity of perspectives in workshop discussions, participants were selected from a variety of backgrounds. Included were those individuals who-by nature of their profession, local involvement, or history of residence--are knowledgeable about the physical, human, and social capital of most of the communities within each workshop's area of focus. Participants included but were not limited to, planners and planning commissioners, community development professionals, current and former county supervisors, education administrators, business people, health and human service providers, and long-term residents with diverse backgrounds and experiences.

To ensure consistency in the information gathered, the following process was used in each workshop.

- 1. The creation, composition and general charge of SNEP is introduced to the group.
- 2. The role of the social assessment component within the SNEP process is discussed and the entire social assessment methodology is reviewed, including a brief introduction to the analysis units and the concepts of well-being and community capacity.
- 3. The process for determining the capacity of community aggregations within the workshop's area of interest is outlined.
- 4. The community aggregations for the area of interest are reviewed by the group for appropriateness. In some cases, alterations are made to the aggregations.
- 5. The concept of community capacity is reintroduced and defined in more detail.
- 6. Participants are asked to indicate the various community aggregations with which they are most knowledgeable and most familiar. Based on the responses, assignments are made to individual participants to ensure that each aggregation is assessed by two different people (though limited expert knowledge and limited number of experts occasionally led to one assessment). Participants are asked to complete a separate community capacity worksheet (see Appendix) for each aggregation including: a narrative assessment of capacity and a rating of capacity on a seven point scale ranging from very low to very high. In assessing capacity, participants are asked to consider the level of physical, human, and social capital in the communities within each aggregation.
- 7.. The individual capacity rankings for each aggregation are summarized and anonymously presented to the group for their review. During a facilitated group discussion, the capacity ratings for each aggregation are discussed; there is further elaboration of issues relating to capacity for each aggregation; and a final capacity ranking is determined by the group for each aggregation.

Information gathered from each workshop includes individual community aggregation narratives and capacity rankings, final group capacity rankings, and notes from the facilitated discussion of all aggregations.

The results of each workshop were reviewed to ensure the capacity rankings and related discussions were consistent with other workshops. If a group did not adequately grasp the concept of capacity or if numerical ratings generated by the experts appeared significantly different from those of other groups, a second panel was convened. Two additional panels were convened for these reasons. In these instances, the narratives of both groups were incorporated into the assessment, but the capacity ratings were selected from the group that appeared to have the best understanding of capacity and that were consistent with ratings employed in other workshops.

In most workshops experts proved reluctant to apply the highest and lowest capacity ratings on the seven point capacity scale, and very few aggregations actually received either a 1 or a 7. To ensure greater consistency in the analysis across the study, the scale was collapsed to a 5 point range with scores of 1 and 2 forming the lowest capacity score and scores of 6 and 7 forming the highest.

Case Study of Capacity Assessments in Plumas County

A case study of community capacity was conducted to examine the congruence of expert capacity assessment with community self-assessments. Study of individual communities also allowed in-depth exploration of local issues. Plumas County was chosen as the case study because of the varying types of forest dependence (e.g., commodity production, service industry associated with recreation and a growing number of retirement communities and other communities in which the forest was important as a backdrop) and because it is the home of the Plumas Children's Network. The Plumas Children's Network, working with a grant from the Sierra Health Foundation, was conducting community assessments' to develop strategies to improve the health and well-being of children and families in Plumas County. They agreed to work with the SNEP researchers because of an interest in community capacity assessment. Working with the Plumas Children's Network provided SNEP social assessment researchers access to local networks and individuals who were able to help organize community workshops and ensure higher local participation. In addition, the Plumas Children's Network was able to immediately use SNEP research for their community assessment and to help secure additional funding for a second phase of a grant. As a result, local communities benefited not only by learning about themselves, but from the advancement of the Plumas Children's Network projects.

Involving local residents to assess community capacity required development of a community "self-assessment" workshop, one quite different from the process used for the expert assessment of capacity for the aggregates. Evening workshops, which averaged two hours in length, were conducted in the towns of Chester, Graeagle, Greenville, Portola, Quincy, and Sierra Valley. Workshops followed the format below.

- Participants are introduced to researchers, to SNEP and to the Plumas Children's Network. 1. This is followed by a brief description of workshop objectives, and a discussion of meeting ground rules. The meeting objectives are to identify key issues that affect local capacity and to numerically rate community capacity on a seven point scale (1-very low, 2-low, 3medium-low, 4- medium, 5-medium-high, 6-high, 7-very high).
- 2. 3. SNEP researchers describe the concept of capacity and its application to communities.
- SNEP researchers discuss issues that define and determine community capacity.
- 4. Working individually, participants are asked to write the most important items/issues on cards that affect their community's capacity and to numerically rate their community's capacity.
- 5. Participants are individually asked to identify the three most important issues that determine capacity.
- 6. Working in small groups, participants share and discuss their lists of most important items/issues with each other and determine the five or six most important to the small group.
- 7. The five or six most important items/issues from each group are posted in front of the full group.
- 8. Items/issues are organized into categories.
- 9. The large group reexamines the list, discusses it, and adds any important items/issues that, are missing.
- 10. In several workshops participants voted on the most important issues and are allotted five votes to distribute among issues they feel are most important:
- Individually, participants rate the capacity of the community a second time; and a SNEP 11. researcher and the Plumas Children's Network coordinator briefly recap the meeting, review group determinations, and thank participants.

SNEP Policy Assessment Workshop Garrison Room, Memorial Union UCD May 17, 1995

Presentations made to the SNEP Science Team

8:00 a.m.	Welcome and Introductions		
8:20 a.m.	Presentation - David Beesley, Sierra College		
9:00 a.m.	Comments - Linda Lux, U.S. Forest Service		
9:15 a.m.	Discussion		
9:45 a.m.	Break		
10:00 a.m.	Presentation - Paul F. Starrs, University of Nevada, Reno		
10:40 a.m.	Comments: Bob Twiss, UC Berkeley David Robertson, UC Davis Gene Rose, journalist (Fresno Bee) and historian		
11:25 a.m.	Discussion		
Noon	Lunch		
12:45 p.m.	Presentation - David J. Larson, CSU Hayward		
1:25 p.m.	Discussion		
2:00 p.m.	Presentation - Larry Ruth, UC Berkeley		
2:40 p.m.	Comments - Mark Nechodom, UC Davis		
2:55 p.m.	Discussion		
3:30 p.m.	Break		
3:45 p.m.	Review and synthesis - Jeff Romm, UC Berkeley		
4:15 p.m.	Discussion		
5:00 p.m.	Adjourn		

This workshop focused on policy assessment and used David Beesley's SNEPcommissioned work on environmental history as a point of departure. Thereafter, the focus was on three policy studies commissioned by SNEP, in each of which the author had been asked to address this question: "Which public policies have been most significant in shaping the ecosystems of the Sierra Nevada as they exist today?"

Cumulative Watershed Effects Workshops

June 1995 Pacific Southwest Research Station, Albany

Participants:

John Sessions Larry Costick Brude McGurk Neil Berg John Chatoian.

June 27, 1995 UC Davis

Participants:

Larry Costick Bruce McGurk Neil Berg John Chatoian Christine Christiansen Terry Henry Jerry DeGraff Mike Lowry

Fall 1994, Winter 1995 and Fall 1995 UC Davis

Participants:

California Rivers Assessment Team at UC Davis

Institutions/Organizations Workshop

July 24, 1995 9:00 am to 3:30 pm

Garrison Room, Memorial Union University of California, Davis

Objectives:

- 1. Articulate institutional challenges confronting organizations that will bear the responsibility to address and implement SNEP findings and recommendations.
- 2. Discuss how an understanding of the institutional/organizational challenges can be used to organize the SNEP Report and to inform the development of findings and recommendations.
- 3. Develop guidelines for consideration of institutional/organizational requirements by SNEP.

Problem Statement:

Science-based assessments of environmental and/or natural resource systems have a tendency to be silent on the organizational means required to address the problems they identify. This occurs because of the convenient myths we all hold that separate the natural and social sciences, thought from action, and "establishment" from "vernacular" views of nature. These distinctions may help in the process of discovery, but they are problematic if social organization is required to implement environmental or economic policies. Recent examples of the downside of not adequately addressing organizational issues are the Forest Ecosystem Management Assessment Team (FEMAT) effort and the attempt to institutionalize a national biological survey/service.

SNEP has an opportunity to face up to the practice requirements of the recommendations or insights it will preach. By focusing on certain organizational, capital, and cultural realities now, SNEP can improve the likelihood that assessment findings and policy options will be heard and that individuals, agencies and legislative bodies will be motivated to act.

Rich examples of new approaches to understanding organizational dynamics are evident in the organizational theory, public administration, and business literature and in the experience of many policy practitioners. This workshop will try to contribute to SNEP learning largely by providing a forum for practitioners to speak and respond to questions, and by allowing all the participants to contribute to the development of guidelines.

Sierra Nevada Ecosystem Project (SNEP) Institutions/Organizations Workshop July 24, 1995 -- 9:00 am to 3:30 pm

Agenda:

9:00 to 9:15 am	Introductions	and Statement of Purpose Bob Ewing SNEP Special Consultant
9:15 to 10:45 am	Variations in Advice	the Response of Agencies to "Outside"
		Bob Wolf Congressional Research Service (retired)
		Paul Sabatier University of California, Davis
		Roger Clark (invited) Pacific Northwest Forest and Range Experiment Station
10:45 to 11:00 am	Break	
11:00 am to 12:00 noon	The Art and	Requirements of Agency Leadership
		Michael Mantell Resources Agency of California
		Ed Hastey (invited) Bureau of Land Management
Noon	Lunch Provided	
1:00 to 2:00 p.m.	Cultural and Change	Capital Resources for Commitment and
		Margaret Shannon Maxwell School, Syracuse University
		Bill Stewart Pacific Institute
2:00 to 2:30 pm	Open Discussion and Break	
2:30 to 3:30 pm		ession to Develop Guidelines for 1 of Institutional and Organizational s
		Mark Nechodom University of California Extension
3:30 p.m.	Close	Bob Ewing

Participants:

Mike Diggles, Sam Doak, Hap Dunning, Bob Ewing, Greg Greenwood, Russ Henly, Rick Kattelmann, Jonathan Kusel, Dennis Machida, Mike Oliver, Rowan Rowntree, Larry Ruth, Margaret Shannon, Jim Shevock, Vicki Sturtevant, Bob Wolf

SIERRA NEVADA ECOSYSTEM PROJECT Science Team Workshop with Key Contacts June 22, 1995 Cabernet Room, UC Davis

- 1:00 Welcome, Explanation of the Purpose and Agenda for the Session, and Participant Introduction (*Jim Space and Don Erman*)
 - SNEP Update: State of Assessments and Public Involvement Activities (*Don Erman*)
 - Explanation of SNEP Development of Policy Scenarios and Modeling Framework (Norm Johnson and John Sessions)
 - Review of Public Comment on Scenario Development (Norm Johnson and John Sessions)
 - Questions of Clarification
- 1:45 Small Group Discussions (*Key Contacts with Science Team*)
 - What general concerns and suggestions do the key contacts have regarding the development of policy scenarios?
 - What elements or components should be included in policy scenarios?
- 3:30 Return to Whole Group
- 3:40 Reports from Small Groups
- 4:05 Next Steps for the Policy Scenario Development Process and Future SNEP Public Involvement Activities (Don Erman)
- 4:15 Post-SNEP Activities (Don Erman)
- 4:30 Adjourn

SNEP Fire Modeling Workshop July 25, 1995 2124 Wickson Hall University of California, Davis

Objectives:

1. To gain a complete understanding of the methodology, assumptions and results of all SNEP fire modeling efforts. Are results consistent? Why or why not? What are we overlooking?

2. To begin the development of the "big picture" implications of fire modeling results for the Sierra Nevada, and to discuss how model results impact SNEP scenario development of policy decisions in general.

Directions for Speakers:

Please plan your presentation for twenty minutes based on the following outline. Answers to key Questions should form the body of your presentation. A slide projector and overhead will be available.

- Briefly describe your project how does it contribute to our overall SNEP objectives?
- What are the key assumptions? What is the spatial and temporal scale?
- What data are you using and what are their limitations?
- KEY QUESTION: How does your project results impact SNEP scenario development?
- KEY QUESTION: How does your project link to other projects in SNEP? How will these links be made?
- What procedures are necessary to validate and confirm the rigor of your modeling effort?

What still needs to be done withing the SNEP time frame? What are the future, post-SNEP applications of the model?

Directions for Invited Guests:

As the agenda depicts, we would like to provide an opportunity for outside experts to briefly and informally respond to the material being presented. What concerns do you have? How can we improve our effort in the short time remaining? Where are gaps and overlaps? These comments are simply impromptu statements that will help to focus our discussions.

Participants:

Joan Brenchley-Jackson, Kevin McKelvey, Greg Greenwood, Sue Husari, Neil Sugahara, Dave Sapsis, Russ Jones, Jan van Wagtendonk, David Weise, Scott Stephens, Rick Kattelmann, Jim Shevock, Jo Ann Fites, Ray Hermit, John MacMillian, Bernie Barho, Tom Nichols, John Sessions, Martin Ritchie, Phil Weatherspoon, Connie Gill, Carol Miller

SNEP Fire Modeling Workshop July 25, 1995

- 8:00 Coffee, Teas
- 8:30 Welcome, Introductions Joan Brenchley-Jackson, Statement of Purpose and meeting logistics - Kevin McKelvey
- 8:50 Presentation: A statistical evaluation of 20th century fire patterns on forest service lands in the Sierra Nevada Kevin McKelvey
- 9:10 Brief Discussion
- 9:20 Presentation: Estimation of Fire Risk and Fire Hazard Greg Greenwood
- 9:40 Brief Discussion
- 9:50 Presentation; Use of a deterministic fire growth model to test fuel treatments Jan van Wagtendonk
- 10:10 Brief Discussion
- 10:30 Response: David Weise Overview Discussion
- 11:10 Presentation: Giant Sequoia Fire Modeling Scott Stephens
- 11:30 Brief Discussion
- 12:10 Lunch
- 1:00 Presentation: Camp Creek Fire Modeling Case Study Bernie Barho
- 1:20 Brief Discussion
- 1:30 Response; Tom Nichols Overview Discussion
- 2:10 Break
- 2:20 Presentation: The Fire Subroutine of the SNEP Scenario Analysis Model -John Sessions
- 2:30 Response: Martin Ritchie Overview Discussion
- 3:00 Presentation: QELIG Current status, capabilities and prospectus Carol Miller
- 3:20 Summary Discussion: What issues and concerns have emerged from this workshop? comments from invited guests and participants.
- 4:00 Close Kevin McKelvey

Key Contacts Work Group Meeting July 25, 1995 2140 Hart Hall, UC Davis

Purpose

Begin planning the September SNEP Public Meeting

Clarify Outcomes

- Develop Agenda
- Discuss Logistics

Agenda

- 1:00 Welcome, Introductions Purpose, Agenda Review
- 1:15 Updates
 - Assessments
 - Scenarios
 - SNEP Report
- Outcomes/Purpose of September Meeting 1:30
- 1:45 Agenda Components
- 2:30 Structure & Activities

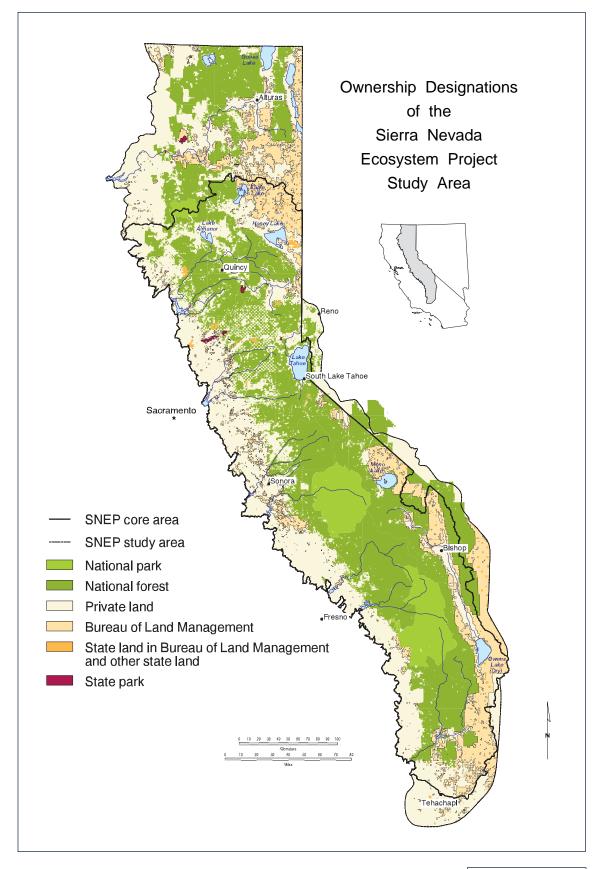
3:30 Logistics

- Publicity
- Materials
- Other Advice
- 3:55 Summary Evaluation
- 4:00 Adjourn

SNEP Public Meeting	
September 26, 1995	
The Grand	
1215 J Street	
Sacramento	

Participants:

Andrea Lawrence	Laurel Ames
Nancy Rosasco	Joan Reiss
Jeanne Adams	Rose Comstock
Rebecca Bendick	Sam Doak
Susan Carpenter	Vicki Sturtevant
Jonathan Kusel	Erin Fleming



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