

Salmonid Restoration Federation

P.O. BOX 4260 • ARCATA, CALIFORNIA 95521 • (707) 444-8903

1994 CALIFORNIA SALMONID RESTORATION CONFERENCE

KLAMATH RIVER FISHERIES RESTORATION PROGRAM GRANT #94-E-07 FINAL REPORT

The 1994 California Salmonid Restoration Conference, SRF's twelfth annual production of this conference, was held in Redding, California January 27-30, 1994 at Shasta Community College and the Red Lion Inn.

The purposes for producing the conference are to:

- disseminate information to individuals about
 - fish habitat restoration opportunities,
 - technical and watershed and fishery resource conservation education methodologies and
 - innovative technical developments;
- acquaint people with
 - reference sources and materials and
 - commercially displayed products and services;
- facilitate communication and cooperation among restoration practitioners and between contractors and interactive resource management agencies; and
- highlight regional and local restoration opportunities and treatments.

The conference consisted of four all-day workshops, a half-day plenary session, two half-day series of concurrent technical sessions, and an exhibition of information displays of public and private restoration programs and projects.

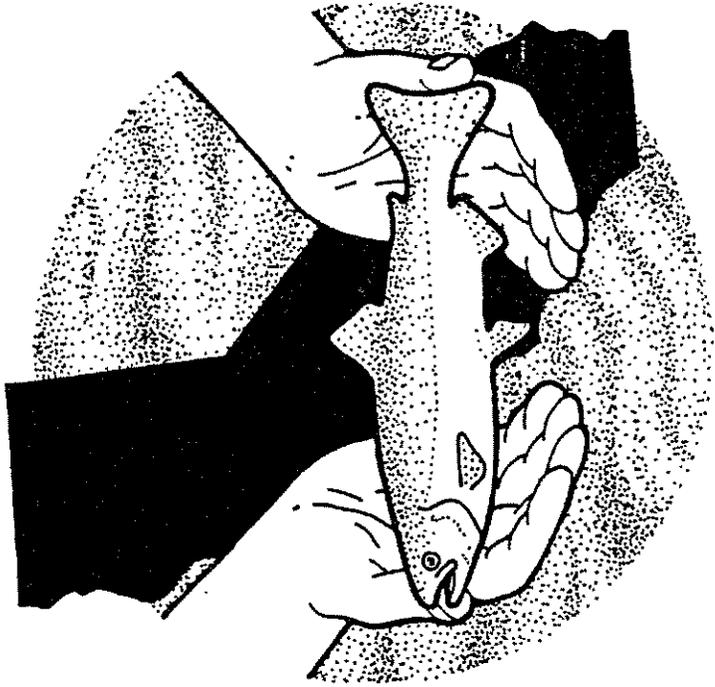
The attached *conference program* provides more detail about the subject and content of the workshops, and plenary and concurrent sessions.

The event was attended by approximately 200 individuals. They included representatives of local, state and federal natural resource management agencies, non-profit organizations, for-profit small business contractors and consultants, fish conservation organizations, and public schools and school districts.

Over 1000 hours of work were required to complete primary coordination tasks; of these hours, 400 were paid for, and the remainder were volunteered. An additional 1000-1500 hours were volunteered by the conference production's other participants.

THE CALIFORNIA SALMONID
RESTORATION FEDERATION'S

TWELFTH ANNUAL SALMONID RESTORATION CONFERENCE



JANUARY 27-30, 1994

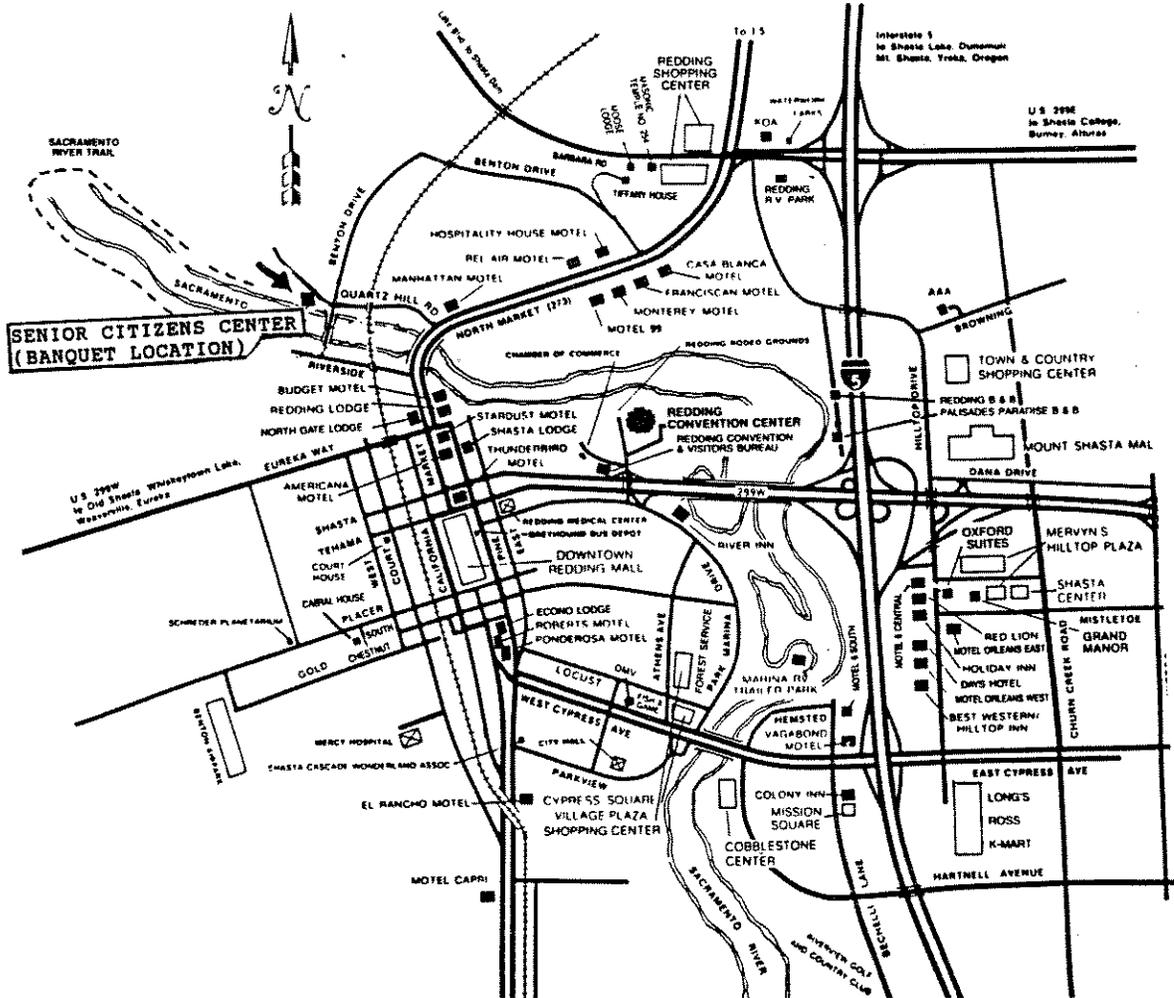
Shasta College & Red Lion Inn • Redding, California

CO-SPONSORS

U.S. Fish & Wildlife Service/U.S. Bureau of Reclamation—Trinity River Restoration Program • U.S. Fish & Wildlife Service—Klamath River Fisheries Restoration Program • U.S. Forest Service—Six River National Forest • U.S. Dept. of Agriculture—Soil Conservation Service • California Department of Fish & Game • University of California—Sea Grant Extension • California Commercial Salmon Trollers • California Rice Industry Association • Salmon Restoration Association • Trout Unlimited • California Trout • Shasta College

ADDITIONAL SUPPORT PROVIDED BY

Mad River Brewery • Etna Brewery • Carter House Natural Science Museum • Federation of Fly Fishers • Pacific Coffee Roasting Company • Flesta Market • Eureka Fly Shop • Scott Becklund



THE SALMONID RESTORATION FEDERATION'S TWELFTH ANNUAL CALIFORNIA SALMONID RESTORATION CONFERENCE

WORKSHOPS

THURSDAY JANUARY 27, 1994

Two Concurrent Workshops 9:00-5:00 (Red Lion Inn, Redding)

1. **Restoring Sacramento River Spring Run Chinook Populations: Opportunities for Public Participation.**
Moderator: Nat Bingham (Pacific Coast Federation of Fishermen's Associations)
2. **Small and Medium Scale Water Diversion Treatments.**
Moderator: Dan Odenweller (California Department of Fish and Game)

FRIDAY JANUARY 28, 1994

Two Concurrent Workshops 9:00-5:00 (Red Lion Inn, Redding)

1. **The Cooperative Watershed Approach: Organizing and Operating Guidelines for Resource Conservation Districts (RCD's) and Coordinated Resource Management Plans (CRMP's).**
Moderators: Tom Schott (US Department of Agriculture, Soil Conservation Service) and Sari Sommarstrom (Scott River CRMP Coordinator)
2. **Small-scale Artificial Propagation Projects: Development of State Operating and Management Policies and Current Technical Developments.**
Moderator: Dave Streig (Monterey Bay Salmon and Trout Project)

RECEPTION

FRIDAY JANUARY 28, 1994

Friday night reception. Free snacks and beverages will be available. This event will take place between 7:00 and 10:00 in Suite 401 of the Red Lion Inn.

Restoring Fisheries in Lakes.

Moderator: Steve Parmenter (Calif. Depart. of Fish & Game - Region 5)

9:15 **Welcome and Introductions**

Preventative Fish Management in the Nuclear Age: A Case Study in Rotenone Use

Nick Villa—Senior Biologist (Calif. Department of Fish & Game—Region 2)

Cooperative Restoration of Pine Creek Watershed for Eagle Lake Trout

Paul Chappel—Associate Fishery Biologist (Calif. Department of Fish & Game—Region 1)

Stone Lagoon: A Case Study in Coastal Cutthroat Trout Restoration

Dr. Terry Roelofs—Professor (Humboldt State University—Department of Fisheries)

10:35

BREAK

Restorable and Unrecoverable Impacts to Crowley Lake's Trout Fishery

Curtis Milliron—Associate Fishery Biologist (Calif. Department of Fish & Game—Region 5)

The 'Goose Lake Fisheries Working Group' Approach to Restoration

Herb Jasper—Landowner (New Pine Creek, Oregon)

Watershed Restoration: Looking Beyond Salmonids

12:15

Adjourn

Macro-invertebrates and Aquatic Plants.

Moderator: Craig Bell (Greenwater Guide Service—Owner/Operator)

9:15 **Welcome and Introductions**

Development of Pilot Rapid Bioassessment Monitoring Program—Analysis of Land Use Impacts on Aquatic Biota

Jim Harrington (Calif. Department of Fish & Game—Water Pollution Control Lab)

10:35

BREAK

Pat Higglins—Fisheries Biology Consultant

12:15

Adjourn

12:30 **SALMONID RESTORATION MEMBERSHIP MEETING**

SUNDAY JANUARY 30, 1994

Shasta College Little Theater Building 500

8:30-9:00 Announcements

Sunday Concurrent Sessions

Shasta College Social Science Building 800 (9:15-12:15, with a break at 10:35)

Fishery and Watershed Management Applications of Geographic Information Systems.

Moderator: Paul Velisze—Research Analyst II (Calif. Department of Fish & Game—Inland Fisheries Division)

9:15 Welcome and introductions

"Klamath Coordinated Information System"

Ronald A. Iverson—Project Leader (US Fish and Wildlife Service, Klamath River Fishery Resource Office)

"A Remote Sensing Perspective on the Klamath River Basin"

Robert B. Rohde—Natural Resource Manager (Karuk Tribe—Department of Natural Resources)

"A Community Based GIS for the Trinity Bioregion"

Yvonne Everett—Forest and Landscape Ecologist (University of Calif. at Berkeley)

10:35 BREAK

"Using Address Matching to Derive In-Stream Fish Habitat Unit Locations"

Mike Martischang—GIS Coordinator (US Forest Service, Six Rivers National Forest)

"CALWATER—CDF's Planning Watershed for California"

Clay Brandow—Hydrologist (Calif. Department of Forestry and Fire Protection—Strategic And Resources Planning Program)

"Improved Utilization and Management of Marine Fisheries Using Remote Sensing and GIS Technologies"

Dr. James J. Simpson—Professor (University of Calif. at San Diego—Digital Image Analysis Lab)

12:15 Adjourn

CONFERENCE

SATURDAY JANUARY 29, 1994

Shasta College Little Theater Building 500

7:00 **Registration:** Coffee and baked goods will be available.

8:30 **Conference Welcome:** Dave Hope, SRF President.

8:40 **Keynote Address:** "Reforming the CVP: Has the Hard Work Only Begun?" Bill Kier (William M. Kier Associates)

Saturday Plenary Session

Shasta College Little Theater Building 500

Wild Trout Management

Moderator: Chuck Knutson, Supervisor—Wild and Threatened Trout Program (Calif. Dept. of Fish & Game, IFD)

9:00 **Introduction**

Chuck Knutson

9:05 **Statewide Wild Trout Project**

Dave Lentz (Calif. Dept. of Fish & Game)

9:25 **An Overview of Threatened Trout**

Eric Gerstung (Calif. Dept. of Fish & Game)

9:45 **Wild Trout Management in Northern California**

Mike Berry (Calif. Dept. of Fish & Game—Region 1)

10:15 **Break**

10:30 **Wild Trout Management in North Central California**

Bill Somer (Calif. Dept. of Fish & Game—Region 2)

11:00 **Wild Trout Management Along the Central California Coast**

Kyle Murphy (Calif. Dept. of Fish & Game—Region 3)

11:15 **Wild Trout Management in the Southern Sierra Nevadas**

Stan Stephens (Calif. Dept. of Fish & Game—Region 4)

11:45 **Wild Trout Management in the Eastern Sierra Nevadas**

Steve Parmenter (Calif. Dept. of Fish & Game—Region 5)

12:00 **LUNCH**—served in College Cafeteria Building 2000

Saturday Concurrent Sessions

Shasta College Social Science Building 800 (1:30-5:00, with a break at 3:00)

Revegetating Riparian Zones: Materials and Methods, with an Emphasis on Specific Applications in the Medium to High Elevation Areas of the Klamath Basin and Sierras.

Moderator: Evan Engber (Bioengineering Associates)

1:30 **Welcome and introductions**

Mike Furniss—Soil Scientist (US Forest Service—Six Rivers National Forest)

John Veevaert—Geologist (US Forest Service—Shasta-Trinity National Forest)

3:00 **BREAK**

Rob Russel (Plumas Corporation)

Pat Higgins—Fisheries Biology Consultant

5:00 **Adjourn**

Instream Structure Failures and Successes.

Moderator: Carl Harral—Fish Habitat Supervisor I (Calif. Department of Fish & Game)

1:30 **Welcome and introductions**

"U.S. Forest Service Region 5 Watershed Restoration Review"

Jerry Boberg—Fisheries Biologist (US Forest Service—Six Rivers National Forest)

"Symbiosis in Environmental Restoration"

David Burnson—Engineering Geologist (Environmental Restoration Services)

3:00 **BREAK**

"Physical Evaluation of Selected Stream Habitat Improvement Projects in Northern California"

James Hoplain—Associate Fisheries Biologist (Calif. Department of Fish & Game)

"Vegetative Revegetment: Is it Worth It?"

Karen MacCartney—Biological Technician (US Forest Service—Klamath National Forest, Goosenest RD)

5:00 **Adjourn**

Grass Valley Creek Watershed Restoration Program: Putting Humpty Dumpty Back Together Again.

Moderator: Bill Brock—Trinity Watershed Rehabilitation Coordinator (US Fish and Wildlife Service—Trinity River Restoration Program)

1:30 **Welcome and introductions**

John McCulloch—Projects Manager (Trinity County Resource Conservation District)

Bill Weaver, PhD—Project Leader (Pacific Watershed Associates)

Meredith Manning—Restoration Coordinator (Trinity County Resource Conservation District)

3:00

BREAK

James Howard—Revegetation Coordinator (Trinity County Resource Conservation District)

Danny Hogens—Geologist/Partner (Pacific Watershed Associates)

Group question and answer period

5:00

Adjourn

BANQUET

SATURDAY JANUARY 29, 1994

To be held at the Shasta Senior Citizen's Center, 2290 Benton Drive. To get there take Quartz Hill Road off of North Market, drive under the railroad trestle, turn left on Benton Drive, and proceed down Benton Drive until you reach the banquet location. The Center is located on the north bank of the Sacramento River, just across the street from Caldwell Park. (See map on back page.)

6:00

Happy Hour

6:30

Serving Begins

8:00

Entertainment

8:45

Presentation of annual outstanding achievement award