

**ECOSYSTEM MANAGEMENT TECHNICIAN CLASSES**  
**MAY 8, 1995 - NOVEMBER 17, 1995**

Date: May 8

Location: Classroom/Field - Barker Creek Area

Instructors: Yvonne Everett, Roger Jaegel, Durand Mortenson

Guests: Dave Loeffler, USFS-LEO  
Dan Lane, E.M.T.

Topics: - Orientation  
- Safety and First Aide  
- Radio Use - Shasta Trinity N.F.  
- Field review of evenaged management, thinning, shaded fuel break.  
- Introduction to plant communities/plant identification

Handouts: Course outline

Shasta Trinity N.F. radio use handbook.

## **ECOSYSTEM MANAGEMENT TECHNICIAN CLASS**

**Date:** May 18

**Location:** Field - Indian Valley

**Instructors:** Ken Baldwin, Yvonne Everett, Durand Mortenson

**Topics:**

- Principles of Ecology
- Plant growth requirements
- Soils/Geology
- Ecosystem formation
- Plant Identification

**Handouts:** Plant anatomy drawings  
Species list (Common names)

## ECOSYSTEM MANAGEMENT TECHNICIAN CLASSES

Date: May 19

Location: Indian Valley

Instructors: Yvonne Everett, Roger Jaegel, Durand Mortenson

Topics:

- Plant Communities
- Vegetation Inventory Plots (exercise)
- Plant Identifications
- History of management activity
- Even age/uneven aged management
- Review prescription for wildlife area - Butter E.M. Plan

Handouts:

## **ECOSYSTEM MANAGEMENT TECHNICIAN CLASS**

Date: May 26

Location: Buck Ridge Fuels Project - South Fork Mountain

Instructors: Yvonne Everett, Roger Jaegel

Topics:

- History of management activities
- Fuels reduction project review
- Identification of ecosystems
- Ecosystems/Landscapes/Plant Communities
- Plant collection and identification (Exercise)
- Succession
- Climate/Microclimate
- Water relationships in forest ecosystems

Handouts:

## ECOSYSTEM MANAGEMENT TECHNICIAN CLASSES

Date: June 2

Location: Field - Buck Ridge Area - South Fork Mountain

Instructors: Ken Baldwin, Roger Jaegel

Topics:

- Intro. to forest land management plan
- Intro. to Presidents forest plan
- Description of management area and late successional reserve
- History of management activity
- Review fuel break thinning
- Review overstory removal cutting
- Review regeneration unit with green tree retention

Handouts: South Fork Mountain management area (STLMP)  
Major silviculture systems and their application (STLMP)

## **ECOSYSTEM MANAGEMENT TECHNICIAN CLASS**

Date: June 20

Location: Hayfork Summit Plantation 1964 burn area

Instructors: Roger Jaegel, Durand Mortenson

Topics: -Fire history

-Salvage and Restoration

-Planting prescription

### **Description of thinning types**

-Crown thinning

-Selection thinning

-Geometric thinning

-Thinning to new ecosystem management objectives (desired condition)

### **Exercises**

-Locate area on forest LMP map

-Determine Presidents Plan allocation

-Determine forest plan prescription

-Determine management area

### **List special influence area**

-Highway 3

### **Review**

-Types of harvest prescription

-Vegetation types/plant communities

Handouts:

## ECOSYSTEM MANAGEMENT TECHNICIAN CLASS

Date: June 23

Location: Ditch Gulch, Dubekella Mountain area of Hayfork AMA

Instructors: Ken Baldwin, Yvonne Everett, Roger Jaegel, Durand Mortenson

Topics: **Intro. to:**

- Wildlife inventory

- Methods

**Wildlife habitation relationship**

- Field plot data collection

- Discussion of plot data

- History of management in the area

- Definition of management (Hayfork AMA)

Handouts: CWHR training manual  
selected papers

List of species of special concern

Sampling methods for wildlife

**BATS**

## ECOSYSTEM MANAGEMENT TECHNICIAN CLASS

- Date: July 14
- Location: Big Creek late successional reserve
- Instructors: Ken Baldwin, Yvonne Everett, Roger Jaegel
- Guests: Tim Viel - Fisheries Bio, George Zink - Hydrologist, Frances Duchi  
Shasta College, Susan Rhodes, TOT
- Topics: Area Description (LSR)
- History of Management
- Aquatic Inventories
- Stream survey techniques (exercise)
- Riparian ecosystems inventory (exercise)
- Review of riparian vegetation
- Map location NW'4NW1/4 Sec (exercise)
- Handouts: General stream survey
- Riparian site assessment sheet
- Fish identification drawing
- "Bugs - What are They Good for"
- Bioassessment sampling procedure
- Habitat assessment guide



## ECOSYSTEM MANAGEMENT TECHNICIAN CLASS

Date: July 21

Location: Friendly Fire (1987) Rail Gulch

Instructors: Ken Baldwin, Yvonne Everett, Roger Jaegel

Topics:

- Area description
- Management History/Fire History
- Fuels management
- Fuel loading - photo series (exercises)
- Fire danger rating system
- Fuel moisture, temperature, humidity, wind speed
- Contract fire plan for service contracts and timber sales
- Contracts and timber sales
- Emphasis on fire compliance and liability
- Plant identification review
- Geopositioning introduction (GPS)

Handouts: Fire and our Ecosystems

Guidelines for fire requirement for HFRD timber sales

Fire plan for service contracts

Forest management burning handbook

"The Crisis in Our Forests" Sunset Magazine July 1995

Handouts on GPS

## ECOSYSTEM MANAGEMENT TECHNICIAN CLASS

- Date: July 28
- Location: Ditch Gulch area (Hayfork AMA)
- Instructors: Ken Baldwin, Yvonne Everett, Roger Jaegel
- Guests: Sherry Chilott - USFS Archaeologist  
Faye Teach - USFS Archaeologist Technician
- Topics: -Antiquities Act  
- Archeological Recon. Report  
-Site identification and recording  
-Soils inventory  
-Soil profiles/types  
-Soil classification  
-Competency testing for intro. to ecosystem management  
-Competency review for forest practices.
- Handouts: Archeological site record  
Summary of federal cultural legislation  
Recognizing prehistoric artifacts  
Glass bottles - basic ID  
Tin cans - basic ID  
A soil profile  
Soil inventory - Shasta/Trinity NF  
Runoff and soil erosion  
Physical properties of soils and plant environments  
Cal. Board of Forestry - procedure for estimating soil erosion hazard rating (1990)

## ECOSYSTEM MANAGEMENT TECHNICIAN CLASS

Date: August 4th

Location: Pilot Creek Watershed, Mad River RD

Instructors: Ken Baldwin, Roger Jaegel

Guests: USFS Martha Ketelle, Marcia Andre'

Topics: -Pilot Creek ecosystem management plan - field review (public meeting)

-Watershed analysis/Watershed

-Thinning prescription for Fisher and Goshawk

-Habitat improvement

-Fuels management

-Review of tree measurement (exercise)

Handouts:

Note: The class participated in a public field trip for the Pilot Creek Ecosystem Management Project. Martha Ketelle, Marica Andre' and the staff of the Mad River Ranger Station, presented a field tour of Pilot Creek and explained the Ecosystem Management Plan in the AMA.

## ECOSYSTEM MANAGEMENT TECHNICIAN CLASS

Date: August 11

Location: Sweeny Gulch Hayfork Creek (Hayfork AMA)

Instructors: Ken Baldwin, Roger Jaegel

Guests: Jennifer Chambers, USFS Hydro Tech.  
John Lee USFS Ecology Tech.  
Julia Riber USFS AMA Coordinator  
Susan Rhodes TOT

Topics: **Ecological Unit Inventory**

-Vegetation mapping (exercise)

-Riparian are mapping (exercise)

-Hydrology and fisheries data

**Intro. to Hayfork AMA**

-Adaptive Management implementation plan

Handouts: Vegetation mapping notes

Hydrology and fisheries data

Riparian EUI data

## ECOSYSTEM MANAGEMENT TECHNICIAN CLASS

Date: Sept. 1

Location: Tulop III Fuel Break

Instructors: Ken Baldwin, Roger Jaegel

Topics:

- Chipper operation and safety (exercise)
- Fuel breaks objectives/markings
- Review of stand inventory and tree measurement
- Review required competencies
- Tulop III fuel reduction operation plan including:
  - Scope and duration
  - Project description
  - Location
  - Equipment requirement and limitation
  - Work standard for cutting, brushing, hand piling and covering

Handouts:

## ECOSYSTEM MANAGEMENT TECHNICIAN CLASS

Date: Sept. 8

Location: Field Tulop III Fuel Break

Instructors: Ken Baldwin, Roger Jaegel

Topics: -Time/work study plots on fuel break  
-Use of redy mapper  
for traversing plots (exercise)  
-Determination of area (acres) from redy mapper  
-Calculation of cost/are for fuel break plots  
-Comparison of redy mapper traverse and GPS traverse in terms of  
time/cost

Handouts: Hourly rates and roll up cost for crew time

Time work study and costs per acre for plots #1 and #4 - Tulop  
Fuel Break

Directions for Reinhardt Redy Mapper, Lilligren model

Slope correction tables

## ECOSYSTEM MANAGEMENT TECHNICIAN CLASS

Date: Sept 15

Location: Big Creek Timber stand plot

Instructors: Roger Jaegel, Durand Mortenson

Topics: -Tree measurement (exercise)  
-Plot traverse for timber stand/ready mapper (exercise)  
-Survival exam technique (exercise)  
-History of management activity in the area  
-Competency testing for forest practices

Handouts: USFS timber cruise book

Cruising guidelines for salvage sales

Variable radius plot

Timber cruising handbook

## ECOSYSTEM MANAGEMENT TECHNICIAN CLASS

Date: Sept. 22

Location: Field - Donaldson Creek (Big Creek Drainage)

Instructors: Ken Baldwin, Roger Jaegel, Durand Mortenson

Guest: Ginger Lynch, Susan Rhode, TOT

Topics: -Review safety and fire precautions  
-Cordwood, cubic measure and board ft. volumes  
-Project schedule and review  
-Forest Roads Overviews  
-Maint. and drainage design  
-Restoration of forest roads

Handouts: Cord wood volumes

Cubic foot volumes

Determining volumes of trees and logs

Conservation Leader

Newsletter - Ecosystem Health



## ECOSYSTEM MANAGEMENT TECHNICIAN CLASS

Date: October 6

Location: Buckeye Ridge, Trinity Lake

Instructors: Ken Baldwin, Roger Jaegel, Durand Mortenson, Dan Naef

Guests: Laird Crandell, Ginger Lynch, TOT

Topics: -Operation and safety - Bitterdroot Yarder (exercise)

-Cordwood measurement (exercise)

-Scale small logs (exercise)

-Management history/fire history of the area

Handouts:

## **ECOSYSTEM MANAGEMENT TECHNICIAN CLASS**

Date: October 13

Location: Classroom - fairgrounds

Instructors: Ken Baldwin, Roger Jaegel

Topics: -Review of federal contracts  
-Review multi task labor intensive forestry contracts  
-Review in detail to solicitation, offer, award sections  
-Review service contract plantation survival exams

### **Request for Quotations**

-Cost estimating exercise on precommercial thinning project  
-Labor, equipment, travel, costs  
-Costs/unit  
-Final bidding

Handouts: How to bid federal contract

RFQ-plantation survival

Multi task service contract R.F.P.

## **ECOSYSTEM MANAGEMENT TECHNICIAN CLASS**

Date: October 20

Location: WRTC - Fairground classroom

Instructors: Ken Baldwin, Roger Jaegel

Topics: -Geographic positioning system orientation

-Forest practices competency testing

-Forest inventories

Handouts:

10 -28, 11- 3, 11 -10, 11-17

Entreneurship training offered through the Cascade  
Small Business Development Center.

*Spencer*

PROJECT	JOBS IN THE WOODS PROJECTS		CONTRACT RECEIVED FROM SO	ADVANCE RECEIVED
	CONTRACT	CONTRACT SIGNED WRTC		
Smoky Creek Fencing	X	X	X	
East Fork Fuels	X	X	X	
Smoky Creek Skid Trail	X	X	X	
Smoky Creek Culvert	X	X	X	
Smoky Cr. Upland Fuel	X	X	X	
Tulop Fire Break	X	X	X	
Summit Planatation	X	X	X	
Vexar Placement	X	X	X	
Bear Creek Trail	X	X	X	
Lower Trinity GPS	X	X	X	
Vexar Maintenance	X	X	X	
Butler Creek Line Maint.	X	X	X	1996
Stream Channel Morphology	X	X	X	
Adult Snorkeling Survey	X	X	X	
Vexar Maintenance #1	X	X	X	
Butler Creek Line Maint. #1	X	X	X	
Tulop III	X	X	X	
Butler Creek Seed Collection	X	X	X	
Bitler Root Yarder	X	X	X	
Survival/Stocking Exam	X	X	X	
Timber Cruising	X	X	X	
Foot Bridge	X	X	X	
N. Fork/Clover Fuel Buffer	X	X	X	1996
Tulop II	X	X	X	1996
Lower Hayfork WIN	X	X	X	1996
Weaver Basin Road Inventory	X	X	X	1996
Old Growth Veg.	X	X	X	1996
Mandell Fire	X	X	X	<del>1996</del> 1996
Butler Cr. Veg. Collection	X	X	X	1996
Butler Cr. Land Line Maint. #2	X	X	X	1996

1996 (2)

USFS IN-KIND TRAINING COST CONTRIBUTION

EXAMPLE

\$234,000 DIVIDED BY 20 TRAINEES	= \$11,700.00
\$11,700 DIVIDED BY 1040 HOURS	= \$11.25/HR
LESS \$5.1458	= \$ 6.115

\$6.12 = HOURLY IN-KIND FOR TRAINING

20 Trainees x 1040 Hours = 20,800  
x 6.12  

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127,296.00