

Dr. John Loomis PUBLIC LANDS MANAGEMENT-EA 547

Spring 2005

OFFICE: B310 CLARK BLDG

OFFICE HOURS: 9-11; 2-3 Monday, 1:30-2:30 Tue-Thur and by appointment

COURSE DESCRIPTION: Comparison and evaluation of natural resource management policies and analytical techniques of the U.S. Forest Service, Bureau of Land Management, National Park Service and U.S. Fish and Wildlife Service. Relationship of legislation, planning system and economics in agency's management of natural resources between conflicting multiple uses. Each major topic will be introduced in a lecture to provide the framework of analysis. The chapters in the book provide more detail & technical material.

COURSE TEXT: Integrated Public Lands Management: Principles and Applications to National Forests, Parks, Wildlife Refuges and BLM Lands, Columbia University Press, Second Edition.

COURSE REQUIREMENTS: There will be 2-3 mid terms (collectively worth 60%) and a final examination (worth 40%).

COURSE OUTLINE

INTRODUCTION: Integrated Natural Resource Planning & Mgmt: The Role of Analysis

Readings: Chapter 1

A. TYPES OF PUBLIC LANDS & THEIR LEGAL MANDATES: IMPLICATIONS FOR ANALYSIS

1. National Forests
2. National Wildlife Refuges
3. National Parks, Monuments
4. Bureau of Land Management
5. Special Land Use Designations: Wilderness, Wild&Scenic Rivers

Readings: Chapter 2

B. RATIONALE FOR PUBLIC OWNERSHIP: Externalities & Market Failure

C. RATIONALE FOR PRIVATE OWNERSHIP: Property Rights & Self Interest

Readings: Chapter 3 including "Another View" Section at end of chapter

D. 5 CRITERIA FOR PUBLIC LAND MGMT & DECISION MAKING AIDS; MODELS IN NATURAL RESOURCES PLANNING AND MANAGEMENT

Readings: Chapters 4 and 5.

E. WILDLIFE REFUGE PLANNING:

General Principles used by agency & Refuge System Admin Act of 1997

Readings: Chapter 11, Pages 422-451

b. Case study of Arctic National Wildlife Refuge; Readings: Ch 11, Pages 451-466

Approximate Time of First Mid-Term Exam

F. THEORY AND PRINCIPLES OF MULTIPLE USE MANAGEMENT

1. Defining Multiple Use, production trade-offs and values
2. A simple graphical example of linear programming models
objective function, constraints and relative values

Readings: Chapter 8.

G. MULTIPLE USE CONFLICTS AND AGENCY APPROACHES TO RESOLUTION

1. **Comprehensive and Intensive Multiple Use Planning of U.S. Forest Service**

- a. Overview of Steps in First Round NFMA Planning Process:
Determining how resources on the Forest will be managed.

Readings: Chapter 9 on USFS, pages 279 to 291.

- b. Tabular Approach to LP Optimization Models
- c. How LP models and Input-Output models used in Forest Planning

Readings: Chapter 9 on USFS, pages 291 to 313.

- d. Case study of Siuslaw National Forest, Implementation of Forest Plans

Readings: Finish Chapter 9 on USFS

- e. Revision of Forest Planning Regulations:
Committee of Scientists; New Planning Reg's: Ecological Sustainability
Example: White River National Forest; New (2004) Planning Regulations

2. **Extensive "Issue Oriented" Multiple Use Planning of BLM:**

- a. Steps and scope of BLM's Resource Management Plans

Readings: Chapter 10 on BLM, pages 361 to 379.

- b. Case study of San Juan Resource Mgmt Plan
- c. Implementation of RMP's
- d. Update on Revision to SJRMP via Ecosystem Approach
- e. Proposed Revisions to 1872 Mining Law

Readings: Finish Chapter 10 on BLM including Another View section.

Approximate Time of 2nd Mid Term Exam on Multiple Use Planning & Mgmt

H. NATIONAL PARKS AND NATIONAL MONUMENTS

1. History of National Parks purpose and early implementation
(the use versus preserve debate)
2. What to Preserve: The scenery or ecology
3. NPS Management Policies
4. NPS Planning Process

Readings: Chapter 12: 467-508.

5. National Park Case Studies

Video and developing Criteria For Deciding Appropriate Recreation Uses
Zion General Management Plan

Readings: Chapter 12 pages 508-524.

External Threats to National Parks
Potential for Interagency, Coordinated Ecosystem Planning
Example of Greater Yellowstone Ecosystem

Readings: Finish Chapter 12 (pages 524-528), Start Chapter 13.

Chapter 14: Ecosystem Mgmt & Planning

Greater Yellowstone Ecosystem Again

California Bioregional Analysis; Oregon Old Growth & Owls: FEMAT

Interior Columbia Basin Ecosystem Plan

Readings: Finish Chapter 13.