

Earth Systems I/Unit 5 Study Guide

es1u5sg (Forestry Ecology)

Learning Objectives

1. Identify the principles, goals, and approaches of resource management. **344-346**
 - a. Define resource management.
 - b. Besides timber, what are 5 other natural resources that are vital to us?
 - c. Define maximum sustainable yield, ecosystem-based management, and adaptive management.
2. Summarize the ecological roles and economic contributions of forests, and outline the history of forest loss. **346-358**
 - a. List as many ways as you can how forests are ecologically valuable.
 - b. Describe how forest products have economic value and have helped the growth of the United States and Canada.
 - c. Outline the history of forest loss in the US and world.
3. Explain the fundamentals of forest management, and describe the major methods of harvesting timber. **346-358**
 - a. Describe how timber is managed in the US.
 - b. What are three ways to harvest timber?
4. Evaluate the benefits of fire in an ecosystem. **358-361**
 - a. List the ways that fire is a benefit to forest ecosystems.
5. Show your understanding of how fire frequency has changed over the last 200 years and point out the influences of those changes. **"Restoring Fire to the Canoe Country"**
 - a. Complete the reflection questions that accompany the above article.

Concept/Vocabulary

adaptive management corridors deforestation clear-cutting biosphere reserves
ecosystem-based management prescribed burns fire rotation fire suppression
sustainable forestry certification maximum sustainable yield

Assignments

- ✓ Chapter 12 - pages 342-361
- ✓ Read: "Restoring Fire to the Canoe Country"
- ✓ Notebook: **10pts**
 - 2-column **Notes** on Study Objectives
 - **Case Study**: Restoring Fire to the Canoe Country
 - **Cloquet Fire of 1918** video guide/**Crossword**
 - **TC 2-6 page 370; IGD 1-3 page 371**
- ✓ Vocabulary Quiz **10pts**
- ✓ Test **20pts**