



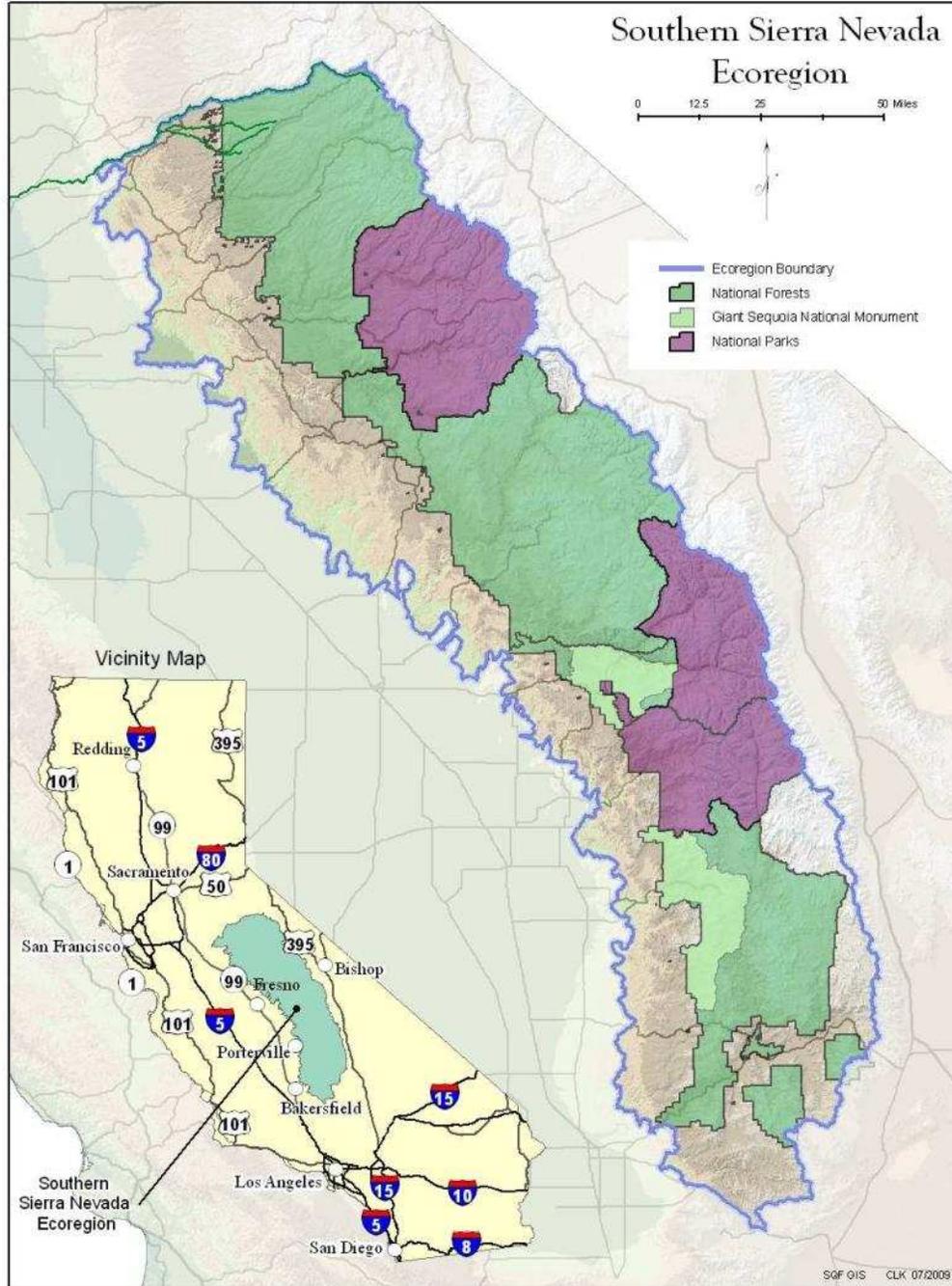
Vegetation Management in the Southern Sierra

Southern Sierra Nevada Ecoregion

0 12.5 25 50 Miles



- Ecoregion Boundary
- National Forests
- Giant Sequoia National Monument
- National Parks



Vegetation Management Objectives National Forest System Lands

- Old Forest Ecosystems and Associated Species
 - Increase and Perpetuate old forest conditions
- Aquatic, Riparian, and Meadow Ecosystems
 - Preserve, Enhance, and Restore
- Fire and Fuels
 - Fire Behavior spread and intensity are reduced
- Noxious Weeds
 - Prevent and Control
- Lower Westside hardwood Ecosystems
 - Restore and Enhance hardwood ecosystems

Vegetation Management Tools (Alternatives to Burning)

Mechanical



Biological



Chemical



Mechanical Treatments

- Pre-commercial Thinning
- Biomass Thinning
- Commercial Thinning
- Salvage Harvesting
- Forest Gap Regeneration
- Machine Piling
- Hand Felling and Piling
- Crushing
- Mastication
- Discing (plowing)



Different Types of Harvest Systems

Ground Base



Aerial Base



Biological Treatments

- Livestock Grazing
 - Cattle
 - Sheep
 - Goats
 - Horses



Chemical Treatments

- Herbicides
 - Site Prep
 - Noxious Weeds
- Methods
 - Ground
 - Aerial



Today's Challenges

- Laws
 - National Environmental Policy Act
 - National Forest Management Act
 - Endangered Species Act
 - Clean Water and Air Acts
 - National Historic Preservation Act
 - Agency Policy
 - Handbook and Manual Directions
 - Standards and Guidelines



"If you were a tree,
which one would you want to end up as?"

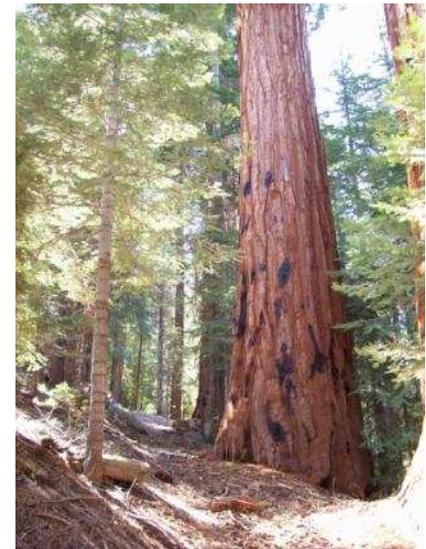
Challenges Continued

- Economics
 - Markets
 - Supply and Demand
 - Costs
 - Infra Structure
 - Manufactures
 - Producers (Contractors)
 - Road System



Challenges Continued

- Land Allocations and Limitations
 - Wilderness
 - Special Management Areas
 - Congressionally Designated – Kings River Special Management Area; Wild and Scenic River Corridors
 - Presidential Proclamations
 - Giant Sequoia National Monument



Challenges Continued

- Political



- Judicial



Questions

