WELCOME
2008 HUCKLEBERRY SUMMIT:

Introduction to Selected Berry Enhancement Treatments

Confederated Tribes
of Warm Springs, Oregon

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Presentation Outline

- Directives/Motivations
- Habitat Range
- Treatment Areas
- Treatment Goals
- Treatment Objectives
- Operations
- Preliminary Results
- Maintenance
- Future Opportunities
Directions/Motivations

◆ Tribal Voice
◆ Integrated Resources Management Plan (IRMP) Goal:
  "Locate, evaluate, and protect or enhance cultural resources for use by tribal members"
◆ Home-Grown Motivation
Huckleberry Habitat Range

- Based on GIS query
  - Soil Survey
  - Plant Associations
- CTWS Acreage: 
  ≈ 645,799
- Huckleberry Habitat: 
  ≈ 93,166 or 14% of CTWS
Selected Treatment Areas

- Grouped Treatments
- Prescriptions:
  - Intermediate Thin
  - Shelterwood
- Acres Treated: ≈ 662
- Plant Associations:
  - Hemlock/Beargrass
  - Mt. Hemlock/LP
  - Silver Fir
- Soil: Howash & Pinhead (Andesite, Volcanic Ash)
- Elevation Range: 4,000-4,800 ft
- Annual Precip: 70-100 in
Selected Treatment Area
Treatment Goals

- Conserve/Protect Huckleberry Shrubs
- Enhance Berry Production
- Slash (Shrubs and Accessibility)
Treatment Objectives

- Protect existing shrubs: log over snow pack of at least 3’
- Open canopy by thinning:
  - BA 90-110 ft²
  - Canopy Closure 30-50 percent
- Reduce slash: transport treetops to the landings
- Conserve Trails:
  - PCT 100’ No-Entry Buffer
  - Other:
    1. Remove activity slash
    2. Limit skid trail crossings to no closer than 300’
    3. Protect blaze trees
Operations

- Transportation:
  - Snow Plowing
  - Water Diversion

- Dig out base of trees

- Feller/Bunchers or Processors

- Hand-Fell Oversize

- Skidders or Forwarders
Operational Considerations

- Transportation Costs
- Logging Costs
- Wear and Tear
- Maintenance
- Landings
- Sale Design
- Working Culture (i.e. somewhat extenuating circumstances)
Preliminary Results

- Little official monitoring for hard empirical evidence
- Site-One:
  - Snow pack sites immediate flush of berries first season following logging
  - Families again using usual and accustomed areas
  - Partial or no snow pack only now recovering
- Site-Two: High elevation sites approximately three years for flush
Maintenance

- Competing Vegetation
- Slash Loadings
- Trail Clearing
- Thin Overstory
Future Opportunities

- Continue with snow pack mitigations
- Acceptable level of impacts
- Official Management Plan with associated Standards and Best Management Practices
- Cable-extraction
- Slope constraints
- Official monitoring
- Control of competing vegetation
- Burning
- Whatever the winds of change dictate
Desired Outcome

- Conservation and Protection
- Continued Tribal Member Use
- Compatible with Established Management Objectives
- Economical
- Empirical Results
THANK YOU, BE WELL