

# Attachment 2. Western Oregon Forest HCP Draft Outline

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## 1 Introduction

### 1.1 Overview

- 1.1.1 Purpose
- 1.1.2 Background
- 1.1.3 Document Organization

### 1.2 Scope of the Plan

- 1.2.1 Plan Area and Permit Area
- 1.2.2 Permit Term
- 1.2.3 Covered Activities
- 1.2.4 Covered Species
  - 1.2.4.1 Covered Species Selection
  - 1.2.4.2 Proposed Covered Species

### 1.3 Regulatory Setting

#### 1.3.1 Federal and State Endangered Species Laws

- 1.3.1.1 Federal Endangered Species Act
  - 1.3.1.1.1 Section 7
  - 1.3.1.1.2 Section 10
  - 1.3.1.1.3 Oregon Endangered Species Act
  - 1.3.1.1.4 ODFW Scientific Collectors Permit

#### 1.3.2 National Environmental Policy Act

#### 1.3.3 Other Relevant State Laws

- 1.3.3.1 Oregon Forest Practices Act ORS 527.610 to 527.770, 527.990, and 527.992
- 1.3.3.2 Oregon Plan for Salmon and Watersheds 541.895
- 1.3.3.3 Oregon Fish Passage
- 1.3.3.4 State Forests Enabling Statutes ORS 530
- 1.3.3.5 State ESA ORS 496
- 1.3.3.6 Forestry Administration ORS 526
- 1.3.3.7 Scenic Waterways ORS 390

## 1.4 Overview of Planning Process

## **2 Environmental Setting**

### **2.1 Introduction**

#### **2.1.1 History**

### **2.2 Physical Setting (Determine organizational principal)**

#### **2.2.1 Location**

#### **2.2.2 Topography**

#### **2.2.3 Geology**

#### **2.2.4 Soils**

#### **2.2.5 Climate**

#### **2.2.6 Hydrology and Water Quality**

### **2.3 Forest Types**

#### **2.3.1 Methods**

##### **2.3.1.1 Forest Stand Inventory Data**

##### **2.3.1.2 Data Review and Mapping Procedures**

#### **2.3.2 Overview of Forest Types**

#### **2.3.3 Land Ownership and Forest Cover**

#### **2.3.4 Tree Species**

#### **2.3.5 Ecological Disturbances and Forest Health**

#### **2.3.6 Disturbance Agents: Fire and Storms**

#### **2.3.7 Disturbance Agents: Insects and Disease**

#### **2.3.8 Climate and Forest Types**

#### **2.3.9 Forest Age and Structure**

#### **2.3.10 Riparian Forests**

### **2.4 Covered Species**

### **2.5 References**

## **3 Covered Activities**

### **3.1 Introduction**

### **3.2 Harvest Activities**

#### **3.2.1 Timber Harvest**

#### **3.2.2 Minor Forest-Product Harvest**

### **3.3 Stand Management Activities**

- 3.3.1 Yard and Burn Slash**
- 3.3.2 Vegetation Control**
- 3.3.3 Tree Planting**
- 3.3.4 Fertilizer Application**
- 3.3.5 Vertebrate Control**
- 3.3.6 Precommercial Thinning and Pruning**
- 3.3.7 Commercial Thinning**
- 3.3.8 Conservation Forestry**
- 3.3.9 Prescribed Burning**
- 3.3.10 Water Drafting and Storage**

### **3.4 Road System Management Activities**

- 3.4.1 Road Construction**
- 3.4.2 Road Use**
- 3.4.3 Road Maintenance**
- 3.4.4 Road Abandonment**
- 3.4.5 Drainage Structures**
- 3.4.6 Landings**
- 3.4.7 Quarries**

### **3.5 Plan Implementation Activities**

- 3.5.1 Aquatic Habitat Restoration**
- 3.5.2 Barred Owl Management**
- 3.5.3 Monitoring and Adaptive Management Activities**

### **3.6 Activities Not Covered**

### **3.7 References**

## **4 Conservation Strategy**

### **4.1 Conservation Overview**

- 4.1.1 Relationship to Other Conservation Plans in the Region**
- 4.1.2 Conservation Approach and Methods**

### **4.2 Biological Goals and Objectives**

- 4.2.1 Northern Spotted Owl**

- 4.2.2 Marbled Murrelet
- 4.2.3 Red Tree Vole
- 4.2.4 Coastal Marten
- 4.2.5 Oregon Slender Salamander
- 4.2.6 Columbia Torrent Salamander
- 4.2.7 Cascade Torrent Salamander
- 4.2.8 Oregon Coast Coho
- 4.2.9 Lower Columbia River Coho
- 4.2.10 Upper Willamette River Spring Chinook
- 4.2.11 Upper Willamette River Winter Steelhead
- 4.2.12 Lower Columbia River Chum
- 4.2.13 Southern Oregon/Northern California Coast Coho
- 4.2.14 Lower Columbia River Chinook
- 4.2.15 Lower Columbia River Steelhead
- 4.2.16 Eulachon

### **4.3 Conservation Measures**

- 4.3.1 Conservation Measure 1: TBD
- 4.3.2 Conservation Measure 2: TBD

### **4.4 Avoidance and Minimization Measures for Covered Species**

- 4.4.1 AMM 1: TBD
- 4.4.2 AMM 2: TBD

### **4.5 References**

## **5 Effects Analysis and Level of Take**

### **5.1 Introduction**

### **5.2 Approach**

- 5.2.1 Impact Methodology

### **5.3 Summary of Effects**

### **5.4 Effects Analysis for Northern Spotted Owl**

- 5.4.1 Impact Mechanisms and Covered Activities
- 5.4.2 Effects on Northern Spotted Owl
- 5.4.3 Effects on Critical Habitat

**5.4.4 Cumulative Effects on Northern Spotted Owl**

**5.5 [Repeat same structure for each covered species]**

**5.5.1 Impact Mechanisms and Covered Activities**

**5.5.2 Effects on Marbled Murrelet**

**5.5.3 Effects on Critical Habitat**

**5.5.4 Cumulative Effects on Marbled Murrelet**

**5.6**

**5.7References**

**6 Monitoring and Adaptive Management**

**6.1 Monitoring and Adaptive Management Program**

**6.1.1 Types of Monitoring**

6.1.1.1 Compliance Monitoring

6.1.1.2 Effectiveness Monitoring

**6.1.2 Monitoring and Adaptive Management**

**6.1.3 Monitoring Actions**

**6.1.4 Data and Reporting**

**6.2 References**

**7 Assurances**

**7.1 Introduction**

**7.2 Assurances Requested**

**7.2.1 Changed and Unforeseen Circumstances**

7.2.1.1 Changed Circumstances

7.2.1.2 Unforeseen Circumstances

7.2.1.3 Changed and Unforeseen Circumstances Addressed by this Plan

**7.2.2 Federal No Surprises**

**7.2.3 Federal Section 7 Consultations**

**7.2.4 Staff Support by State and Federal Agencies**

**7.2.5 Assurances for Neighboring Private Landowners**

**7.3 References**

**8 Plan Implementation**

## **8.1 Implementation Roles and Responsibilities**

### **8.1.1 Permittee**

### **8.1.2 National Marine Fisheries Service and U.S. Fish and Wildlife Service**

#### 8.1.2.1 Dispute Resolution

#### 8.1.2.2 Permit Suspension or Revocation

## **8.2 Implementation Overview**

## **8.3 Implementation Schedule**

## **8.4 Data Tracking and Annual Reporting**

## **8.5 Modifications to the Plan**

### **8.5.1 Administrative Changes**

### **8.5.2 Minor Modifications to the Plan**

### **8.5.3 Amendments**

## **8.6 References**

# **9 Costs and Funding**

## **9.1 Introduction**

## **9.2 Implementation Costs**

### **9.2.1 Cost Estimation Methods**

### **9.2.2 Estimated Costs**

#### 9.2.2.1 Plan Administration and Staffing

#### 9.2.2.2 Mitigation

#### 9.2.2.3 Monitoring and Adaptive Management

#### 9.2.2.4 Remedial Measures for Changed Circumstances

#### 9.2.2.5 Contingency

## **9.3 Implementation Funding**

### **9.3.1 State Funding Sources**

### **9.3.2 Other Funding Sources**

### **9.3.3 Funding Contingencies**

## **9.4 References**

# **10 Alternatives to Take**

## **10.1 Introduction**

## **10.2 Alternatives to Take**

### **10.2.1 Description of Alternatives**

10.2.1.1 No Take Alternative

10.2.1.2 District Level HCPs

10.2.1.3 Reduced Number of Covered Species

10.2.1.4 Reduced Permit Term

## **10.3 References**

<b>Appendix A</b>	<b>Glossary</b>
<b>Appendix B</b>	<b>Species Considered for Coverage</b>
<b>Appendix C</b>	<b>Species Accounts</b>
<b>Appendix D</b>	<b>Effects Analysis Approach</b>